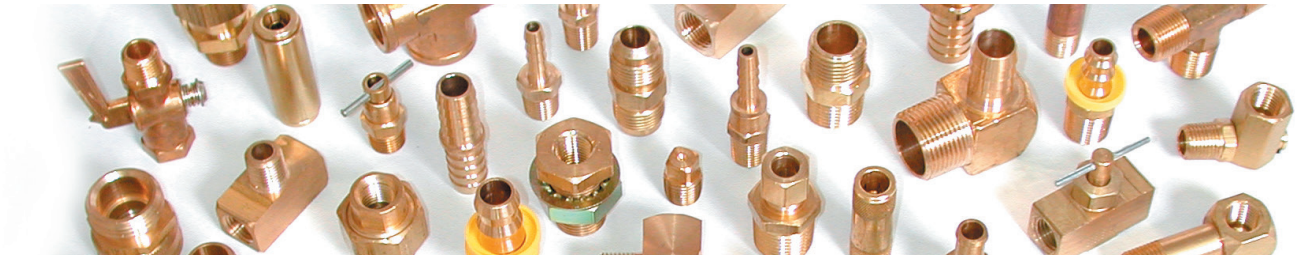
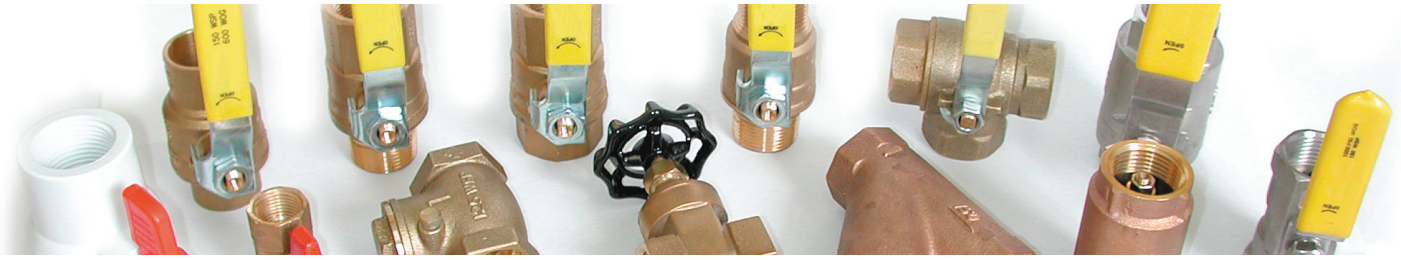
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FIND WHAT YOU NEED

TABLE OF CONTENTS PGS 2-3

PICTORIAL INDEX PGS 4-30

BRASS PGS 1-156

LEAD FREE PGS 157-175

DISPLAYS PGS 176-178

VALVES PGS 179-239

NIPPLES & FITTINGS PGS 240-329

PLASTIC PGS 330-344

HOSE ACCESSORIES PGS 345-396

CRIMPLOK PGS 397-415

CLAMPS PGS 416-436

TUBING PGS 437-443

PRESSURE WASHER 444-449

PNEUMATICS PGS 450-472

TRUCK & TRAILER PGS 473-494

HYDRAULICS PGS 495-539

STAINLESS STEEL ADAPTERS 540-555

NUMERICAL INDEX 556-594

TABLE OF CONTENTS

BRASSFITTINGS

Pipe Fittings 1
Hose Barb Fittings 14
Push On Barb Fittings 30
Garden Hose Fittings 37
Sae 45° Flare 49
Inverted Flare Fittings 68
Compression Fittings 76





LEAD FREE 157-175
FITTING ASSORTMENTS AND DISPLAYS ... 176-178

VALVES

Lead Free Ball Valve 180
Italian Lead Free Brass Ball Valve 182
Midpex & Pex Ball Valves Lead Free 185
Forged Brass Ball Valve 186
Butterfly Handle Ball Valve 187
Nickel Plated Ball Valve 188
N/p Ball Valve W/ss Trim 189
Italian Ball Valve 190
Male X Female Brass Ball Valve 191
Italian Male X Female Ball Valve 192
Tee Handle Ball Valve - Male X Female 193
Locking Handle Ball Valves - Female X Male 194





NIPPLES & FITTINGS

Brass Nipples 241
Bronze Fittings 249
Lead Free Brass Fittings 249
Stainless Steel Fittings 276
Black And Galvanized Steel Nipples 284
Merchant Couplings 302
Api Line Couplings 303
Malleable Fittings 304
Steel Fittings 314

PLASTIC FITTINGS

Schedule 80 Pvc Nipples 331
Pipe-nylon Poly 333
Hose Barb 335
Garden Hose 339
Compression 340
Plastic Push-in Tube Fittings 341



HOSE ACCESSORIES

Cam And Groove 346
Aluminum (Al) Spool & Part A 348
Combination Nipples 359
Combination Nipples 360
Hose Barb X Male Pipe 360
Victaulic Grooved 360





CRIMPLOK

Aluminum Self Locking Cam & Groove 398
Stainless Steel Self Locking Cam & Groove 399
Ferrules 403
Sleeves 408

HOSE CLAMPS

Worm Gear Clamps 417
Quick Release 421
T-bolt Clamps 422
Spring Loaded T-bolt 423





TUBING

Polyurethane Nsf 51® 438
Polyethylene 439
Nylon 12 Tubing 441
Pvc Polyvinylchloride Tubing - Nsf61 442

HIGH PRESSURE SPRAYERS

Nozzles 445
Swivels 446
Sprayers 447
Quick Disconnects 448





PNEUMATICS

Industrial Interchange 451
Universal Series Couplers 453
Aro 210 Interchange 454
Automotive/ Parker Interchange (Tru-flate) 455

TRUCK AND TRAILER

Air Coils 473
Hose Support 474
Gladhands 477





HYDRAULIC ADAPTERS & ACCESSORIES

Technical Information 496
Profile Size Chart 502
Steel Pipe Swivel Adapters 504
Straights Steel Jic Flare 37° 506

STAINLESS STEEL ADAPTERS

Female Pipe Swivels 543
Jic 37° 544
Bulkhead Fittings 547
Pipe Fittings 548
Steel Pipe Fittings 549



BRASS
PICTORIAL INDEX

BRASS FITTINGS PGS 1-169	**PIPE PGS 1-13**	90° ELBOW  PG 2	90° FORGED EL  PG 2	45° ELBOW  PG 2	UNION TEE  PG 2	FGD TEE  PG 2	RED FRG TEE  PG 3	CROSS  PG 3
FORGED  PG 3	COUPLING  PG 3	RED COU-  PG 4	UNION  PG 4	CAP  PG 4	90° ST EL  PG 4	90° ST EL  PG 4	FORGE 90°  PG 5	FORGE RED  PG 5
HEX BUSHING  PG 5	FACE BUSHING  PG 6	SQ HEAD PLUG  PG 6	COUNTER-SUNK  PG 6	SLOTTED HEAD  PG 6	CORED HEX  PG 6	SOLID HEX  PG 7	LOCKNUT  PG 7	CLOSE NIPPLE  PG 7
LONG NIPPLE  PG 7	HEX NIPPLE  PG 8	RED HEX NIPPLE  PG 8	45° ST EL  PG 8	45° FORGE ST EL  PG 8	STREET TEE  PG 9	FORGED ST TEE  PG 9	EXTENDER  PG 9	FPT X MPT SWIVEL  PG 9
MPT X FPT SWIVEL  PG 9	90° MALE ELBOW  PG 10	BARSTOCK ELBOW  PG 10	90° RED EL-BOW  PG 10	MALE BRANCH T  PG 10	FGD BRANCH TEE  PG 10	ALL MALE T PG 11	LONG ST EL PG 11	LONG EX ADAPT PG 11
FIP X MIP WYE PG 11	MALE WYE N/P PG 11	ALL FIP N/P WYE PG 11	**BULK-HEAD FITTINGS PGS 12-13**	BULKHEAD FXF PG 12	BULKHEAD FXM PG 12	BULKHEAD FXM PG 12	BULKHEAD FXM PG 12	BULK TUBE X F PG 12
FPXCLAMP-STUD PG 12	MARINE BULK-HEAD PG 12	STEEL BULK-HEAD PG 13	STEEL BULK-HEAD PG 13	STEEL BULK-HEAD PG 13	STEEL BULK-HEAD PG 13	STEEL BULK-HEAD PG 13	STAINLESS BULKHEAD 13	STAINLESS BULKHEAD 13
HOSE BARB PGS 15-22	MALE ADAPTER PG 15	BSPT ADAPTER PG 16	SWL MALE ADPT PG 16	SWL MALE ADPT PG 16	MENDER/ SPLICER PG 16	FEMALE ADAPT PG 17	FEMALE SWIVEL PG 17	MALE SWIVEL PG 17

BRASS
PICTORIAL INDEX

MALE SWIVEL  PG 17	GASKET  PG 18	HB 90° ELBOW  PG 18	BS 90° ELBOW  PG 19	TEE  PG 19	90° HB ELBOW  PG 19	FEMALE HB EL  PG 20	45° ELBOW  PG 20	CROSS  PG 20
BALL END  PG 21	BALLSEAT  PG 21	BALLSEAT  PG 21	45° FLARE  PG 21	DUAL FLARE  PG 22	DUAL FLARE  PG 22	FEM FLARE  PG 22	FEM FLARE  PG 22	JIC FLARE SWL  PG 22
REUSE-ABLE FITTINGS PGS 23	REUSABLE MALE  PG 23	REUSABLE STEMS  PG 23	REUSABLE SWIVELS  PG 23	REUSABLE FERRULES  PG 23	REUSABLE STEMS  PG 23	**FUEL HOSE PGS 24-25**	FUEL HOSE  PG 24	BUBBLE BARB  PG 24
INV FLARE CONN  PG 24	90° MALE ELBOW  PG 24	BUBBLE BARB  PG 24	SWL MALE ELBOW  PG 25	WELD CONNECTOR  PG 25	WELD HOSE NUT  PG 25	HOSE CONNECT  PG 25	**TUBE BARB PGS 26**	UNION SINGLE BARB  PG 26
MALE ADAPTER 1 BARB  PG 26	FEMALE ADAPTER  PG 26	BULKHEAD UNION  PG 26	UNION ELBOW  PG 26	MALE 90° ELBOW  PG 26	FEMALE 90° EL  PG 26	1 BARB TEE  PG 26	MALE BRANCH T PG 26	FEMALE BRANCH T PG 26
TWO BARB PG 26	2 BARB TEE PG 26	90° ELBOW 2 BARB 26	**SS. HOSE BARB PGS 27**	SS ADAPTER PG 27	SS SPLICER PG 27	SS BARB ELBOW PG 27	#304 SS HOSE PG 27	#304 RED NIPPLE PG 27
#316 SS HOSE NIPPLE PG 27	**BEVERAGE BARB PGS 28-29**	PIPE ADAPTER PG 28	HOSE SPLICER PG 28	BRASS SPLICERS PG 28	FLARE ADAPTER PG 28	THINWALL SPLICERS PG 28	TAILPIECE PG 28	SWIVEL SETS PG 28
PLUG PG 28	TAILPIECE PG 28	SWIVEL BARB PG 28	COMPRESSION PG 28	90° ELBOW PG 28	SWIVEL ELBOW PG 29	U-BEND PG 29	HOSE TEES PG 29	SWIVEL ELBOW PG 29

BRASS
PICTORIAL INDEX

U-BEND  PG 29	THINWALL  PG 29	MALE ELBOWS  PG 29	CROSS  PG 29	BARB SPLICER  PG 29	**PUSH-ON BARB PGS 31-36**	MALE  PG 31	MALE SWIVEL  PG 31	FEMALE  PG 31
HOSE SPLICER  PG 32	FEMALE  PG 32	MALE ELBOW  PG 32	TUBE  PG 33	SAE FLARE  PG 33	37° JIC FLARE  PG 33	DUAL SEAL  PG 33	45° SAE FL  PG 2134	37° JIC FL SWL  PG 34
INV FLARE SWL  PG 34	FEMALE ADAPTER  PG 35	BALLSEAT SWIVEL  PG 35	FEMALE SWIVEL  PG 35	316 MALE ADPT  PG 36	FEMALE SWIVEL  PG 36	37° JIC FL SWL  PG 36	**GARDEN HOSE PGS 37-47**	SWL MGH X FGH  PG 38
SWL FGH X FGH  PG 38	FGH X FGH  PG 38	SWL FGH X FPIPE  PG 38	COOLER FIT-TINGS  PG 38	COOLER FIT-TINGS  PG 38	COOLER FIT-TINGS  PG 38	RGD FGH X FPIPE  PG 38	RGD FGH X FPIPE  PG 38	SWL FGH X MPIPE  PG 39
DSHWSHR ELBOW  PG 39	SWL FGH X MPIPE  PG 39	SWL FGH X MPIPE  PG 39	RGD FGH X MPIPE  PG 39	RGD FEMALE PIPE  PG 40	RGD FEMALE PIPE  PG 40	RGD MALE PIPE PG 40	RGD MGH X MGH PG 40	GH NUT PG 40
GH NUT PG 40	GH WASHER PG 41	GH WASHER PG 41	GH FILTER WSHR PG 41	GH CAP PG 41	GH CAP W/ CHAIN PG 41	GH PLUG PG 41	MENDER PG 42	QCK DISCON GH PG 42
QCK DISCON GH PG 42	MALE FL X FGH RGD PG 42	MALE FL SWIVEL PG 42	COMP X FGH PG 42	COMP X MGH PG 42	FEMALE SWIVEL PG 43	SS FEMALE SWL PG 43	MALE END PG 43	SS MALE END PG 43
GH COUPLING PG 43	GH COUPLING PG 43	FEMALE END PG 44	MALE END PG 44	GH COUPLING PG 44	FEMALE SWL 2” 44PG 21	MALE END 2” PG 44	GH COUPLING 2” PG 44	FE. SHRT SHNK PG 45

BRASS
PICTORIAL INDEX

MALE SHRT  PG 45	SHRT SHNK  PG 45	FE. LONG  PG 45	M. LONG  PG 45	LONG SHNK  PG 45	FEMALE END  PG 46	BRASS BALL  PG 46	HOSE SHUT-  PG 46	PL. GH VALVE  PG 46
ZINC Y  PG 47	CAST WYE  PG 47	2-WAY SHUT-  PG 47	"Y" CONNEC-  PG 47	SWL HOSE  PG 47	"Y" CONNEC-  PG 47	BRASS  PG 48	CROSS PTTRN  PG 48	CROSS PTTRN  PG 48
SPRAY NOZZLE  PG 48	SPRAY NOZZLE  PG 48	SPRAY NOZZLE  PG 48	PL. SPRAY NOZZ  PG 2148	**FLARE PGS 49-60**	SHORT ROD NUT  PG 50	RED. SHRT ROD  PG 50	LONG ROD NUT  PG 50	LONG FRG. NUT  PG 51
SHORT FRG. NUT  PG 51	HVY. SHRT NUT  PG 51	FLARED PLUG  PG 52	FLARED CAP  PG 52	FNGR TIGHT. CAP  PG 52	COPPER GASKET  PG 52	COPPER BON- NET  PG 53	M BALL CHK CON  PG 53	UNION  PG 53
REDUCING UNION  PG 54	UNION TEE  PG 54	REDUCING TEE  PG 54	M. BRANCH TEE  PG 55	FE. ADAPTER  PG 55	MALE ADAPTER PG 56	MALE ELBOW PG 57	FEMALE ELBOW PG 58	MALE RUN TEE PG 58
FLARE CROSS PG 59	ADAPTER TEE PG 59	FLARE ELBOW PG 59	45° ELBOW PG 60	UNION PG 60	FE. FL ADAPTER PG 60	FL REDUCER PG 60	FORGED SWIVEL PG 61	SWIVEL EL- BOW PG 61
FL X SWT PG 61	**SPACE HEATER PG 61**	SPACE NUT PG 62	HEATER MALE PG 62	SPACE FE- MALE 62PG 21	HEATER UNION PG 62	**GAS RANGE PG 62**	GAS MALE PG 62	RANGE FE- MALE PG 62
DRUM ADTR 62PG 21	RANGE CAP PG 62	**POL PGS 63-65**	POL TEE PG 63	TAILPIECE PG 63	TAIL AND NUT PG 63	POL CAP PG 63	PLUG AND CHAIN PG 63	ADAPTER PG 63

BRASS
PICTORIAL INDEX

MALE  PG 63	TAILPIECE  PG 64	POL ADAPTER  PG 64	TAILPIECE  PG 64	POL ADAPTER  PG 64	HEX HEAD  PG 64	POL ADAPTER  PG 64	SOFT NOSE  PG 64	POL ADAPTER  PG 64
PROPANE  PG 65	DUST PLUG  PG 65	POL X MIP  PG 65	APPLIANCE  PG 65	FPT X POL  PG 65	APPLIANCE  PG 65	APPLIANCE  PG 65	O-RING  PG 65	DUAL APPLI-  PG 65
37 FLARE PGS 66-67	JIC UUNION  PG 66	JIC FE ADPT  PG 66	MALE ADAPTER  66	JIC SWIVEL  PG 66	90° ELBOW  PG 67	FE ELBOW  PG 67	45° ELBOW  PG 67	**INVERTED FLARE PGS 69-75**
CHROMATE NUT  PG 69	LONG STEEL NUT  PG 69	INVERTED FL NUT  69	METRIC TUBE NUT  PG 69	UNION INTER-NAL  PG 70	FE. ADAPTER  PG 70	MALE ADAPTER  PG 70	ELBOW  PG 71	45° ELBOW  PG 71
UNION TEE  PG 71	STEEL PLUG  PG 72	M. BRANCH TEE  PG 72	FEMALE ELBOW  PG 72	MALE RUN TEE  PG 72	FE. BRANCH TEE  PG 73	TRAIL BRAKE TEE PG 73	CYLINDER ADAPT PG 73	CYLINDER ADAPT PG 74
CARBURETOR PG 74	RESTRICT. ADAPT PG 74	SAE FL X INVERT PG 75	METRIC ADAPTER PG 75	ADAPT STAN-DARD PG 75	METRIC UNION PG 75	**COMPRESSION PG 77-85**	BRASS SLEEVE PG 77	BRASS NUT PG 77
UNION 77	REDUCING UNION PG 78	TEE PG 78	REDUCING TEE PG 78	UNION ELBOW PG 79	REDUCING ELBOW PG 79	FE. ADAPTER PG 79	MALE ADAPTER PG 80	MALE ELBOW PG 81
MALE ELBOW PG 81	MALE RUN TEE PG 82	M. BRANCH TEE PG 83	M. BRANCH TEE PG 83	FE. ELBOW PG 82	FORGED TEE PG 83	ADAPTER TEE 83	FE. BRANCH TEE PG 84	45° ELBOW PG 84

BRASS
PICTORIAL INDEX

CAP  PG 84	COMPRESS  PG 84	BULKHEAD  PG 85	CHECK VALVE  PG 85	TANK  PG 85	**DOUBLE COMP. PG 84**	DOUBLE COM-  PG 86	MALE  PG 86	90° ELBOW  PG 86
BREAK-AWAY  PG 86	**SPLIT SLEEVE PG 87**	SPLIT SLEEVE  PG 87	NUT  PG 87	DBL. END  PG 87	CONNECTOR  PG 87	ELBOW  PG 87	**COMP AS-SEMBLIES PG 88**	DELRIN  PG 88
BRASS INSERT  PG 88	LONG NUT COMP  PG 88	SELF-ALIGN SLEEVE  PG 88	**CAPTIVE SLEEVE PG 89**	CAP SLEEVE NUT  PG 89	UNION  PG 89	MALE ADAPTER  PG 89	MALE ELBOW  PG 89	M. BRANCH TEE  PG 89
ANG. NEED. VALV  PG 89	SLE. NEED. VALV  PG 89	**FLARE-LESS PGS 91-94**	NUT PLS. SLEEVE  PG 91	UNION  PG 91	BULKHEAD UNION  PG 91	UNION TUBE  PG 91	BULKHEAD UNION  PG 91	UNION TEE  PG 92
FE. CONNEC-TOR  PG 92	M. CONNEC-TOR  PG 92	MALE ELBOW  PG 92	FEMALE ELBOW  PG 93	MALE RUN TEE  PG 93	M. BRANCH TEE  PG 93	FE. BRANCH TEE  PG 93	UNI NUT SLEEVE  PG 94	NUT  PG 94
PLASTIC SLEEVE PG 94	**PUSH-IN FITTINGS PGS 97-**	**BRASS PUSH-IN PGS 97-101**	UNION CON-NECT PG 97	UNION TEE PG 97	UNION ELBOW PG 97	FE. CONNEC-TOR PG 97	M. CONNEC-TOR PG 98	SWVL. M. ELBOW PG 98
FIXED M. ELBOW PG 99	FE. SWVL ELBOW PG 99	FEMALE ELBOW PG 99	SWVL M. RUN T PG 100	FIXED M. RUN T PG 100	SWVL M. BRANCH PG 100	FIX M. BRANCH T PG 100	UNION "Y" PG 101	BULKHEAD UNION PG 101
FE. BLKHD UNION PG 101	REDUCER PG 101	PLASTIC PLUG PG 101	**N/P BRASS PUSH-IN PGS 103-106**	UNION CON-NECT PG 103	UNION TEE PG 103	UNION ELBOW PG 103	FE. CONNEC-TOR PG 103	FIXED M. ELBOW PG 104

BRASS
PICTORIAL INDEX

MALE W/INT  PG 104	M. CONNEC-  PG 104	SWVL. M.  PG 105	FE. SWVL  PG 105	SWVL. M.  PG 105	REDUCER  PG 106	UNION "Y"  PG 106	SWVL M.  PG 106	BULKHEAD  PG 106
N/P VALVES PG 107	PUSH-IN VALVE  PG 107	TUBE X MIP  PG 107	FIP MINI BALL  PG 107	MXF MINI BALL  PG 107	FIP ANGLE  PG 107	3-WAY MINI  PG 107	3_WAY MINI  PG 107	**METRIC N/P BRASS PGS 108-110**
BULKHEAD UNION  PG 108	UNION TEE  PG 108	UNION ELBOW  PG 108	UNION "Y"  PG 108	PLUG  PG 108	METRIC TUBE M.  PG 109	INTERNAL HEX  PG 109	METRIC TUBE ELB  PG 109	METRIC SWVL TEE  PG 110
METRIC SWVL TEE  PG 110	BULKHEAD  PG 110	**COM-POSITE PUSH-IN PGS 112-115**	UNION  PG 112	UNION TEE  PG 112	FE. CONNEC-TOR  PG 112	90° UNION ELB.  PG 112	UNION "Y" CONN  PG 112	M. CONNEC-TOR  PG 113
SW MALE ELBOW  PG 113	LONG PTTN M. EL  PG 113	FE. SWVL ELBOW  PG 114	45 SWIVEL ELL  PG 114	SWVL M. RUN T  PG 114	SWVL M. BRANCH  PG 114	BULKHEAD FE.  PG 115	BULKHEAD UNION PG 115	SWIVEL "Y" CON PG 115
METRIC TEENEEDLE VALVE PG 115	FLOW CON-TROL PG 115	FLOW CON-TROL PG 115	**METRIC PUSH-IN PGS 116-118**	METRIC MALE PG 116	METRIC EL-BOW PG 116	METRIC TEE PG 116	METRIC UNION PG 116	METRIC TEE PG 117
METRIC TEE PG 117	METRIC SW ELBOW PG 117	METRIC WYE PG 118	METRIC SW WYE PG 118	**DOT BRASS PUSH-IN PGS 120-125**	PLUG PG 120	UNION PG 120	UNION TEE PG 120	UNION ELBOW PG 120
FEMALE CONN PG 121	MALE CON-NECTOR PG 121	MALE ELBOW PG 122	MALE SWL ELBOW PG 122	FEMALE ELBOW PG 123	FEMALE SWL EL PG 123	MALE RUN TEE PG 123	MALE SWL RUN T PG 124	MALE 45° ELBOW PG 124

BRASS
PICTORIAL INDEX

45° SWL EL-  PG 124	MALE BRANCH  PG 124	SWL BRANCH  PG 125	FEM BRANCH T  PG 125	BULK CON-  PG 125	BULKHEAD  PG 125	FEM BULK  PG 125	**DOT COMP PUSH-IN PGS 127-130**	STRAIGHT  PG 127
UNION TEE  PG 127	UNION 90° EL  PG 127	FEM CONNEC-  PG 127	MALE CON-  PG 128	90° MALE  PG 128	90° FEMALE EL  PG 128	MALE RUN TEE  PG 129	MALE BRANCH  PG 129	FEM BRANCH T  PG 129
45° MALE ELBOW  PG 129	UNION "Y"  PG 130	MALE BRANCH "Y"  PG 130	BULKHEAD UNION  PG 130	FEM BULK CONN  PG 130	**DOT FOR NYLON TUBE PG 132-135**	SLEEVE  PG 132	NUT  PG	UNION  PG 132
BULKHEAD UNION  PG 132	SS INSERT  PG 132	BRASS INSERT  PG 132	TEE  PG 133	RED BRANCH TEE  PG 133	ELBOW  PG 133	FEMALE ADAPTER  PG 133	MALE ADAPTER  PG 134	SWL MALE ADPT  PG 134
MALE ELBOW  PG 134	SWL MALE ELBOW  PG 134	FEMALE ELBOW  PG 134	MALE RUN TEE  PG 135	MALE BRANCH T  PG 135	FEM BRANCH T  PG 135	45° ELBOW PG 135	SWL 45° EL-BOW PG 135	**DOT FOR COPPER PGS 136-137**
SLEEVE PG 136	NUT PG	UNION PG 136	MALE ADAPTER PG 137	90° MALE ELBOW PG 137	MALE BRANCH T PG 137	**DOT FOR HOSE PGS 138-140**	SLEEVE PG 138	NUT PG 138
NUT-USE SPRING PG 138	SPRING PG 139	NUT/SPRING PG 139	UNION PG 139	CONNECTOR HOSE PG 139	MALE CON-NECTOR PG 139	ADAPTER FOR SWL PG 140	MALE ADAPTER PG 140	ADAPTER BODY PG 140
MALE ADAPTER PG 140	**GREASE FITTINGS PGS 141-145**	1/8 STR. PG 141	BALL CHECK 1/8 LONG PG 141	1/8" 30 PG 141	1/8" 45 PG 141	65° 1/8" PG 141	90° 1/8" PG 141	1/4 STR PG 141

BRASS
PICTORIAL INDEX

65° BALL  PG 142	SHORT 1/4-28  PG 142	LONG 1/4-28  PG 142	EXTRA LONG  PG 142	SHORT 45° BC  PG 142	SHORT 45° BC  PG 142	LONG 45° BC  PG 142	90° BALL  PG 142	DRIVE TYPE  PG 143
DRIVE TYPE  PG 143	6MM  PG 143	6MM 45°  PG 143	6MM 90°  PG 143	8MM  PG 143	8MM 45°  PG 143	8MM 90°  PG 143	10MM  PG 144	10MM 45°  PG 144
10MM 90°  PG 144	5/16"-24  PG 144	3/8" - 24  PG 144	BUTTON HEAD  PG 144	WHIP HOSE  PG 144	ADAPTERS  PG 145	ADAPTERS  PG 145	EXTENSIONS  PG 145	45° ANGLE  PG 145
90° ANGLE  PG 145	COUPLING  PG 145	BULKHEAD  PG 145	**DRAIN COCKS PGS 147-148**	GAS SHUT OFF  PG 147	DRAIN COCK  PG 147	TRUCK DRAIN  PG 147	SHUT OFF  PG 147	LEVER HANDLE  PG 147
AIR TANK VALVE  PG 147	INTERNAL SEAT  PG 148	INTERNAL SEAT  PG 148	LG INTERNAL SEAT  PG 148	TEE HANDLE  PG 148	EXT W/ SPOUT PG 148	BIBB NEEDLE PG 148	RADIATOR TYPE PG 148	**SHUT OFF COCKS PG 149**
COMP X MALE PG 149	COMP X COMP PG 149	FEMALE X FEM PG 149	MALE X FE-MALE PG 149	MALE X MALE PG 149	**NEEDLE VALVES PGS 150-151**	COMP X MALE PG 150	COMP X M ANGLE PG 150	COMP X COMP PG 150
FLARE X MALE PG 150	FLARE X MALE PG 151	FLARE X FLARE PG 151	AIR VENT PG 151	MALE TO MALE PG 151	F X F PG 151	MALE X FE-MALE PG 151	**TRUCK VALVES PG 152**	TRUCK VALVE PG 152
FEMALE TO MALE PG 152	FLARE TO MALE PG 152	**SOLID BOTTOM VALVES PG 152**	SOLID BOT-TOM PG 152	FIP X FIP PG 152	FUEL VALVE PG 152	MALE X MALE PG 152	F X F PG 152	MALE X FLARE PG 152

LEAD FREE
PICTORIAL INDEX

MULTI PORT VALVES PGS 153	3-WAY (SIDE)  PG 153	3-WAY (BOT-  PG 153	4-WAY  PG 153	**MARINE VALVES PG 154**	ANTI-SIPHON  PG 154	ANTI-SIPHON  PG 154	ALUM ANTI-  PG 154	MXF ANTI-  PG 154
ALUM MXF  PG 154	ALUM BARB  PG 154	FL X MIP  PG 154	6-PORT  PG 154	**MINI BALL VALVES PG 155**	MINI BALL  PG 155	MALE X MALE  PG 155	PIPE X BARB  PG 155	F X F  PG 155
F X F  PG 155	F X F  PG 155	FNPT X FNPT  PG 155	MNPT X FNPT  PG 155	**PANEL MOUNT VALVES PG 155**	PANAL MOUNT  PG 155	F X F  PG 155	F X F  PG 155	**CHECK VALVES PG 156**
FIPXFIP BUNA-N  PG 156	M X F BUNA-N  PG 156	MNPT X MNPT  PG 156	FNPT X FNPT  PG 156	NPT X NPSM  PG156	F X F  PG 156	F X M  PG 156	M X F  PG 156	M X M CHECK  PG 156
L/F PIPE PGS 158-178	**BRASS PIPE PGS 158-161**	FGD ELL  PG 158	FGD TEE  PG 158	BS TEE  PG 158	BS 45  PG 158	BS ELL  PG 158	FACE BUSH  PG 159	SQ. HEAD  PG 159
CAP  PG 159	CROSS  PG 159	COUPLING PG 159	BUSHING PG 159	HEX PLUG PG 159	CS PLUG PG 159	UNION PG 159	ST. ELL PG 160	LONG ST PG 160
HEX NIPPLE PG 160	CL. NIPPLE PG 160	ADAPTER PG 160	NIPPLE PG 160	DUAL SEAT PG 161	MALE ADAPTER PG 161	ALL MALE PG 161	BS ELL PG 161	MALE BRANCH PG 161
MALE RUN PG 161	**L/F HOSE BARB PG 162**	RIGID MALE ADAPTER PG 162	FORGED HOSE BARB 162	MENDER/ SPLICER PG 162	RIGID FEMALE PG 162	HOSE BARB PG 162	FEMALE PG 162	LF MINI BALL PG 162

LEAD FREE
PICTORIAL INDEX

L/F GARDEN HOSE PGS 163	MGH X MALE  PG 163	GARDEN HOSE  PG 163	FGH X MALE  PG 163	MGH X MGH  PG 163	BRASS CON-  163	SWIVEL  PG 163	MALE END  PG 163	FEMALE  PG 163
GARDEN HOSE  PG 163	RIGID  PG 163	SWIVEL  PG 163	FGH X MALE  PG 163	MGH X FE-  PG 163	**L/F FLARE PGS 164-165**	SHORT ROD  PG 164	SHORT FORGE  PG 164	UNION  PG 164
FLARED CAP  PG 164	TEE  PG 164	PLUG  PG 164	FEMALE ADAPTER  PG 165	MALE BRANCH TEE  PG 165	FORGED SWIVEL  165	MALE ADAPTER  PG 165	UNION ELBOW  PG 165	FIP BRANCH TEE  PG 165
90° MALE ELBOW  165	FEMALE ELBOW  PG 165	MALE RUN TEE  PG 165	**L/F COMPRESSION PGS 166-169**	BRASS SLEEVE  PG 166	NUT  PG 166	BRASS INSERT  PG 166	CAPTIVE SLEEVE NUT  PG 166	CAP  PG 166
UNION  PG 167	TANK UNION  PG 167	TEE  PG 167	UNION ELBOW  167	FEMALE ADAPTER  PG 167	COMP X SWEAT  PG 167	MALE ADAPTER  PG 168	MALE ELBOW PG 168	TANK CON-NECTOR PG 168
FEMALE ELBOW PG 168	45 ELBOW PG 168	MALE RUN TEE PG 168	MALE BRANCH TEE PG 169	COMPX FIP X MIP PG 169	FIPXMIPX-COMP PG 169	COMPX FIP TEE PG 169	COMP X FE FL PG 169	COMP X MALE FLARE PG 169
COMP X FE COMP PG 169	COMP X FE FLARE	COMP X FE GDN HOSE PG 169	COMP X FE GDN HOSE 90 PG 169	ADD-A-TEE PG 169	**N/P COMPRESSION PGS 170**	NUT PG 170	UNION PG 170	RED UNION PG 170
TEE PG 170	UNION ELBOW PG 170	FEMALE COU-PLING PG 170	COMP X SWT PG 170	MALE ADAPTER PG 170	MALE ELBOW PG 170	FEMALE ELBOW PG 170	ICE MAKER KIT PG 170	**NEEDLE VALVES PGS 171**

VALVES
PICTORIAL INDEX

COMP NEEDLE  PG 171	COMP X MIP  PG 171	COMP X M  PG 171	FL X FL NEE-  PG 171	FL X MIP  PG 171	FIP X FIP  PG 171	M X F PIPE  PG 171	MIP X MIP  PG 171	VALVE WITH  PG 171
VALVE W/  PG 171	SADDLE ONLY  PG 171	SADDLE VALVE  PG 171	**SUPPLY STOP CONNECTORS 172-174**	FIP X B/C SS  PG 172	STRAIGHT  PG 172	3/8 X FIP LAV  PG 172	3/8 X 3/8 LAV  PG 172	ANGLE SUP-  PG 172
3-WAY SUPPLY STOPS  PG 172	ICE MAKER SS CNCTR  PG 173	3/8 GDN HOSE SS CNCTR  PG 173	WATER HEATER CONNECTOR  PG 173	WASHING MACHINE CNCTR  PG 173	CONNECTOR W/ELBOW  PG 173	PVC BALL-COCK CNCTR  PG 174	PVC LAV CONNECTOR  PG 174	PVC LAV 3/8 COMP CNCTR  PG 174
TRANSITION PGS 175	CPVC SS MALE ADAPTER  PG 175	CPVC BRASS ADAPTER  PG 175	FEMALE ADAPTER CPVC  PG 175	CPVC DROP EAR BRASS  PG 175	CPVC SS MALE ADAPTER  PG 175	CPVC SS DROP EAR  PG 175	**DISPLAY UNITS PGS 176-178**	SS SIZE GUIDE  PG 178
FLARE SIZE GUIDE  PG 178	BINS 4 ACROSS  PG 177	BINS  PG 176-177	PACKAGE  PG 176-177	BINS 5 ACROSS  PG 177	PIPE SIZE GUIDE  PG 178	HOSE BARB SIZE GUIDE  PG 178	BINS 6 ACROSS PG 177	BINS 176-177
SIZE GUIDE PIPE/COMP/FL PG 178	COMP SIZE GUID PG 178	PLASTIC SIZE GUIDE PG 178	LABELS PG 177	BAG AND TAG PG 177	**VALVES PGS 179-239**	**L/F VALVES PGS 180-185**	LF BALL VALVE PG 180	SWT X SWT PG 180
FIP X FIP LF PG 181	SWT X SWT LF PG 181	LF ITALIAN PG 182	SWT X SWT LF PG 182	**L/F PLBG VALVES PGS 183-185**	LF GATE VALVE PG 183	GATE VALVE CXC PG 183	LF BRASS CHECK PG 183	SWING CHECK PG 183
CXC SWING CHK PG 183	Y-STRAINER PG 183	LF COPPER PRESS VALVE PG 184	C/E PEX UNION BALL PG 185	C/E PEX W/ DRAIN & DROP PG 185	PEX BALL VALVE PG 185	MIP X PROPEX PG 185	PEX DRAIN VALVE PG 185	**BALL VALVES PGS 186-196**

VALVES
PICTORIAL INDEX

FORGED  PG 186	LOCKING  PG 187	BUTTERFLY  PG 187	FXF NICKEL  PG 188	NP/SS TRIM  PG 189	ITALIAN BALL  PG 190	M X F  PG 191	ITALIAN M X F  PG 192	MXF TEE  193
FXM LOCKING  PG 194	SPRING  PG 195	RIGHT ANGLE  PG 195	3WAY NON-  PG 196	SAFETY EX- 	**GAS BALL VALVES PG 197**	GAS BALL  PG 197	FLARE X  PG 197	FLARE X MIP  PG 197
FLARE X FIP  PG 197	ITALIAN GAS BALL  PG 197	**MINI BALL VALVES PGS 198-201**	ITALIAN MINI BALL  PG 198	M X F  PG 198	MINI MXF BRASS  PG 198	FXF FLAG HANDLE  PG 199	LEVER HANDLE  PG 199	TEE HANDLE  PG 199
SCREW-DRIVER  PG 199	MXF FLAG  PG 200	LEVER HANDLE  PG 200	TEE HANDLE  PG 200	SCREW-DRIVER  PG 200	F X F MINI  201	F X M MINI  PG 201	M X M MINI  PG 201	BARB X MALE MINI  PG 201
BARB X FE-MALE  PG 201	BARB X BARB MINI  PG 201	**BRASS VALVES PGS 202-205**	3-WAY SIDE OUT  PG 202	3-WAY BOT-TOM  PG 202	STRAINER  PG 203	VACUUM BREAK  PG 203	RADIATOR AIR PG 203	KEY ONLY PG 203
SILLCOCK 203	HOSE BIBBS PG 203	GARDEN VALVE PG 203	GATE VALVE PG 204	QUICK OPEN-ING PG 205	Y-STRAINER PG 206	**CHECK VALVES PGS 207-209**	SWING CHECK PG 207	Y-SWING CHECK PG 207
CHECK VALVE PG 208	IN LINE CHECK PG 208	IN LINE CHECK PG 209	**SS BALL VALVES PGS 210-214**	2000# PG 210	316 SS 1-PC 1000 STD PORT PG 211	316 SS 2-PC 1000 FP PG 212	SS MINI PG 213	SS M X F PG 213
FXF BUTTER-FLY PG 214	MXF BUT-TERFLY PG 214	MXM BUT-TERFLY PG 214	**CHECK PGS 215-219**	304 CHECK PG 215	SS IN LINE PG 216	FXF SPRING CHK PG 217	MXF SPRING CHK PG 217	Y-SPRING CHECK PG 219

NIPPLES AND FITTINGS
PICTORIAL INDEX

2PC BARREL  PG 218	SS SWING CHK  PG 219	SS GLOBE  PG 219	SS GATE  PG 219	**STEEL VALVES PGS 220-223**	STANDARD  PG 220	2PC FULL  PG 221	2 WAY  PG 222	3 WAY  PG 222
CHECK  PG 223	**PVC PGS 224-225** PG	PVC THREAD  PG 224	SLIP X SLIP  PG 224	FIP X FIP 	SLIP X SLIP  PG 224	IN-LINE CHECK  PG 225	FIP PVC  PG 225	DRUM FAUCET  PG 225
DRUM & BARREL  PG 225	**DUCTILE IRON PGS 227-236**	BUTTERFLY VALVE LEVER  PG 227	BUTTERFLY VALVE GEAR  PG 228	GEAR REPLACEMENT  PG 229	WHEEL  PG 229	EXTENSIONS  PG 229	ROLL PIN  PG 229	WAFER BUTTERFLY  PG 230
CHECK VALVE UL  PG 231	CHECK  PG 231	CHECK  PG 232	GATE VALVE NO TAP  PG 233	GATE VALVE NRS RES.  PG 234	GATE VALVE DI  PG 235	GATE VALVE FL X MJ  PG 236	**FLANGE PGS 237-239**	COMP FLANGE THREAD  PG 237
COMPANION FLANGE  PG 238	METER COUPLING  PG 239	FLANGE OVAL  PG 239	FLANGE OVAL  PG 239	**NIPPLES & FITTINGS PGS 240-329**	**BRASS NIPPLES PGS 240-269**	SEAMLESS SCH 40  PG 244	CHROME PLATED  PG 248	**BRONZE FITTINGS PG 250-258**
LEAD FREE BRONZE PG 250-258	90° ELBOW  PG 250	90° REDUCE ELB  PG 250	90° STREET ELLS PG 251	45° ELBOW PG 251	45 ST ELBOW PG 251	CROSS PG 252	TEE PG 252	REDUCING TEE PG 253
REDUCING TEE PG 253	COUPLING PG 254	REDUCE COUP PG 254	CAP PG 255	UNION PG 255	HEX LOCKNUT PG 255	HEX BUSHING PG 256	HEX BUSHING PG 256	CNTRSUNK PLUG PG 257
CORED PLUG PG 257	SOLID PLUG PG 257	HEX NIPPLE PG 258	REDUCE HEX NIP PG 258	LF COMPANION FLANGE PG 258	LF SWT COMP FLANGE PG 258	LF FLOOR FLANGE PG 258	**CHROME PLATED PG 259-260**	C/P TEE PG 259

NIPPLES AND FITTINGS
PICTORIAL INDEX

C/P CROSS  PG 259	C/P ST ELL  PG 259	C/P 45 ST ELL  PG 259	C/P COUPLING  PG 259	C/P ELL  259	C/P 45 ELL  PG 260	C/P UNION  PG 260	C/P CAP  PG 260	C/P BUSHING  PG 260
C/P PLUG  PG 260	**USA L/F BRONZE PG 261-266**	USA ELBOW  PG 261	RED ELL  PG 261	USA 45 ELL  PG 261	DROP ELL  PG 261	ST ELL  PG 261	TEE  PG 262	45 ST ELL  PG 262
CROSS  PG 262	STREET TEE  PG 263	REDUCER  PG 263	COUPLING  PG 263	45 Y BRANCH  PG 263	BUSHING  PG 264	CAP  PG 264	CS PLUG  PG 264	UNION  PG 264
EH ELBOW  PG 265	PLUG  PG 265	EH ST ELBOW  PG 265	EH 45 ELBOW  PG 265	SOLID PLUG  PG 265	EH CROSS  PG 266	EH UNION  PG 266	EH CAPS  PG 266	EH COUPLING  PG 266
EH TEE  PG 266	**CLEANOUT PLUGS PG 267**	CLEANOUT PLUG  PG 267	CS C/O PLUG  267	C/O PLUG W/ TAP  PG 267	**DROP EAR ELBOWS PG 267**	BRONZE D/E  PG 267	SWT X SWT PG 267	PEX X FIP 267
BRASS INSERTS PGS 268	BARB FOR PL PIPE PG 268	BRONZE TEE BARB PG 268	268	UNION 90 PG 268	**STEEL INSERTS PG 268**	STEEL INSERT PG 268	REDUCER PG 268	UNION PG 268
SS INSERTS PG 269	SS MALE ADAPTER PG 269	SS 90 ELBOW PG 269	**L/F INSERTS PG 269**	LF UNION PG 269	LF MALE BRANCH PG 269	LF UNION ELBOW PG 269	**WELL COUPLINGS PG 269**	SS DROP WELL PG 269
SS HEAVY CPLG PG 269	SS MERCHANT PG 269	**SS NIPPLES PG 273-275**	304 SCH 40 WELDED PG 273	316 SCH 40 WELDED PG 273	**SS FITTINGS PG 277-283**	90° ELBOW PG 277	90° STREET ELB. PG 277	45° STREET ELB. PG 277

NIPPLES AND FITTINGS
PICTORIAL INDEX

TEE  PG 278	CROSS  PG 278	HEX NIPPLE  PG 278	REDUCE HEX  PG 278	COUPLING  PG 279	REDUCE COUP  PG 279	MACHINED  PG 279	HALF COU-  PG 280	UNION  PG 280
CAP-CAST  PG 280	HEX CAP-  PG 280	HEX BUSHING  PG 281	HEX LOCKNUT  PG 282	HEX SOCKET  PG 283	CORED PLUG  PG 282	SOLID PLUG  PG 283	SOLID HEX  PG 283	CORED HEX  PG 282
HOSE NIPPLE  PG 282	REDUCING  PG 283	**STEEL NIPPLES PG 250-264**	SCH 40 GALVA-NIZED  PG 288	SCH 40 BLACK  PG 288	ASSORT-MENTS  PG 292	TOTE TRAYS  PG 292	SCH 80 SEAM-LESS  PG 293	XXS SEAM-LESS  PG 299
GROOVE NIPPLES PG 265-266	THREAD X GROOVE  PG 300	GROOVE X GROOVE  301	**MERCHANT COUPLINGS PG 267-268**	MERCHANT COUP  PG 302	MERCHANT COUP  302	HALF MECHANT C  PG 302	API LINE COUP  PG 303	**MALLEABLE FITTINGS PG 269-278**
90° ELBOW GALV  PG 305	90° ELB. BLACK  PG 305	REDUCE ELBOW  PG 305	REDUCE ELBOW  PG 305	GALV ST. ELBOW  PG 305	BLK. ST. EL-BOW  PG 305	45° GALV ELBOW  PG 306	45° BLK. EL-BOW  PG 306	45° GALV ST. ELB PG 306
45° BLK. ST. ELB PG 306	GALV CROSS PG 306	BLACK CROSS PG 306	GLAV TEE PG 307	BLACK TEE PG 307	GALV REDUCE T PG 307	BLK. REDUCE T PG 307	BULLHEAD TEE PG 308	BLK. BLKHD TEE PG 308
REDUCING TEE PG 308	MALL SERVICE T PG 308	MALL SERVICE T PG 308	GALV OUT TEE PG 308	BLK. OUT TEE PG 308	GALV COU-PLING PG 309	BLK. COU-PLING PG 309	GALV RED COUP PG 309	BLK. RED COUP PG 309
INSIDE HEX PG 310	BLK. HEX BUSH PG 310	GALV HEX BUSH PG 310	GALV UNION PG 311	BLACK UNION PG 311	GALV SQR PLUG PG 311	BLK SQR PLUG PG 311	GALV CAP PG 311	BLACK CAP PG 311

NIPPLES AND FITTINGS
PICTORIAL INDEX

LATERAL Y  PG 312	LOCKNUTS  PG 312	COUPLING  PG 312	OUTLET  PG 312	GALV FLR  PG 313	BLK FLR  PG 313	EXTENSION  PG 313	SHROOM CAP  PG 313	**STEEL FITTINGS PG 314-315**
GALV HEX  PG 314	BLK HEX BUSH  PG 314	GALV CAP  PG 314	BLK CAP  PG 314	GALV FACE  PG 314	BLK FACE  PG 314	GALV SQR  PG 315	BLK SQR PLUG  PG 315	GALV HEX  PG 315
BLK HEX PLUG  PG 315	GALV CS PLUG  PG 315	BLK CS PLUG  PG 315	CS HEX  PG 315	BLK CS PLUG  PG 315	**300# MALLEABLE PG 316-317**	90° ELBOW  PG 316	45° ELBOW  PG 316	90° ST ELBOW  PG 316
TEE  PG 316	COUPLING  PG 316	REDUCE COUP  PG 317	CAP  PG 317	UNION  PG 317	MAG DRAIN PLUG  PG 317	**BULL PLUGS & SWAGES PG 318-319**	BULL PLUG  PG 318	XH BULL PLUG  PG 318
SCH 40 SWAGE  PG 318	HEX SWAGE  PG 319	SCH 80 SWAGE  PG 319	XXH SWAGE  PG 319	**STEEL FLANGES PG 320-321**	SLIP-ON  PG 320	THREADED  PG 320	WELD NECK FLNG  PG 321	BLIND FLNG PG 321
HAMMER UNION PG 322	1,000 PSI HAMMER UNION PG 322	2,000 PSI HAMMER UNION PG 322	CRIMPLOK HAMMER UNION PG 322	**COPPER FITTINGS PG 324-329**	90° EL CXC PG 324	90° ST EL FTG X C PG 324	90° LONG TURN PG 324	90° LONG TURN ST PG 324
45° EL CXC PG 325	45° ST FTG X C PG 325	COUPLING PG 325	COUPLING PG 325	COUPLING PG 326	REDUCER W/ STOP PG 326	FITTING REDUCER PG 326	MALE ADAPTER PG 327	FTGXM ADAPTER PG 327
FEMALE ADAPTER PG 328	FTG X F ADAPTER PG 328	CAP PG 328	UNION C X C PG 328	U-TYPE STRAP PG 328	TEE PG 329	**PLASTIC FITTINGS PG 330-344**	**PIPE PG 295-297**	**PVC NIPPLES PG 331-332**

PLASTIC
PICTORIAL INDEX

ELBOW  PG 333	TEE  PG 333	STREET  PG 333	STREET  PG 333	HEX HEAD  PG 333	HEX HEAD  PG 333	HEX BUSHING  PG 334	HEX BUSHING  PG 334	HEX NIPPLE  PG 334
HEX NIPPLE  PG 334	RED NIPPLE  PG 334	RED NIPPLE  PG 334	COUPLING  PG 335	COUPLING  PG 335	PIPE CAP  PG 335	PLASTIC BULK-  PG 335	HOSE BARB PG 335-338	MALE  PG 335
MALE ADAPTER  PG 336	HOSE X MALE 90°  PG 336	HOSE X MALE 90°  PG 336	UNION ELBOW  PG 337	SPLICER  PG 337	SPLICER  PG 337	RED SPLICER  PG 337	RED SPLICER  PG 337	BARBED TEE  PG 338
BARBED TEE  PG 338	BARBED Y  PG 338	BARBED Y PG 338	REDUCING TEE  PG 338	REDUCING TEE  PG 338	M BRANCH TEE  PG 338	GARDEN HOSE PG 339	GH CAP  PG 339	GH NUT  PG 339
GH ADPT INSERT  PG 339	GH THREAD ADPT  PG 339	MGH X F  PG 339	FGH X M  PG 339	FGH X F  PG 339	MGH X M  PG 339	COMPRESSION PG 340	UNION CON- NECTOR PG 340	BULKHEAD UNION PG 340
UNION TEE PG 340	UNION ELBOW PG 340	FEMALE CON- NECT PG 340	MALE CON- NECTOR PG 340	MALE ELBOW PG 340	PUSH-IN PG 341-344	UNION CON- NECT PG 341	BULKHEAD UNION PG 341	UNION TEE PG 341
UNION ELBOW PG 341	REDUCING ELBOW PG 341	FEMALE CON- NECT PG 342	MALE CON- NECTOR PG 342	STEM ADAPTER PG 342	REDUCER PG 342	FIXED ELBOW PG 342	PLUG-IN ELBOW PG 343	2-WAY DIVIDER PG 343
PLUG PG 343	BSP ADAPTER PG 343	PLXPL PG 343	PL X MIP VALVE PG 343	CHECK VALVE PG 344	STOP VALVE PG 344	LOCKING CLIP PG 344	FLOW BEND CLIP PG 344	SPANNER PG 344

HOSE ACCESSORIES
PICTORIAL INDEX

STOP VALVE  PG 344	SLIP TEE  PG 344	**HOSE ACCESSORIES PG 305-315**	**ALUMINIUM CAM & GROOVE PG 306-307**	M ADPT X F  PG 346	FEMALE COU-  PG 346	HOSE SHANK  PG 346	FEMALE COU-  PG 346	HOSE SHANK E  PG 347
MALE ADAPER  PG 347	DUST CAP DC  PG 347	DUST CAP DP  PG 347	SPOOL  PG 348	MALE ADAPT-  PG 348	SWIVEL A  PG 348	FEMALE COU-  PG 348	ELBOW C  PG 348	REDUCER C  PG 348
REDUCER D  PG 349	FEMALE COU-PLER D  PG 349	FEMALE COU-PLER DD  PG 349	SWIVEL D  PG 349	MALE ADAPT-ER F  PG 349	**POLYPROPYLENE CAM & GROOVE PG 350-351**	MALE ADAPT-ER A  PG 350	FEMALE COU-PLER B  PG 350	HOSE SHANK C  PG 350
FEMALE COU-PLER D  PG 350	M X HOSE SHANK E  PG 351	MALE ADAPT-ER F  PG 351	DUST CAP DC  PG 351	DUST PLUG DP  PG 351	**STAINLESS STEEL CAM & GROOVE PG 352-354**	FEMALE ADAPTER A  PG 352	FEMALE COU-PLER B  PG 352	HOSE SHANK C  PG 352
FEMALE COU-PLER D  PG 352	HOSE SHANK E  PG 353	MALE ADAPT-ER F  PG 353	DUST CAP DC  PG 353	DUST PLUG DP  353	SS ADAPTER  PG 354	SS COUPLER DD  PG 354	SS DA  PG 354	ELBOW D SS PG 354
BRASS CAM & GROOVE PG 355-356	MALE ADAPT-ER A PG 355	FEMALE COU-PLER B PG 355	HOSE SHANK C PG 355	FEMALE COU-PLER D PG 355	HOSE SHANK E PG 356	MALE ADAPT-ER F PG 356	DUST CAP DC PG 356	DUST CAP DP PG 356
SS HANDLE PG 357	BRASS HANDLE PG 357	BUNA-N GASKET PG 358	SAFETY CLIP PG 357	SILICONE GASKET PG 358	VITON GASKET PG 358	**KING NIPPLES PG 359-361**	HOSE NIPPLE STEEL PG 359	ZINC PLATED PG 359
REDUCER/EX-PANDER PG 359	316 SS PG 359	BRASS PG 360	ALUMINUM PG 360	STEEL VIC-TAULIC PG 360	PLATED GROOVED 360	HOSE MENDER STEEL PG 361	PLATED STEEL MENDER PG 361	316 HOSE MEND PG 361

HOSE ACCESSORIES
PICTORIAL INDEX

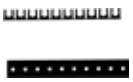
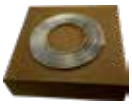
BRASS  PG 361	**UNIVERSAL GROUND JOINT** PG 362-364	UNIVERSAL  PG 362	WASHER  PG 362	FEMALE NPT  PG 362	HOSE END  PG 362	TRIPLE CON-  PG 362	GROUND  PG 363	HOSE STEM  PG 363
WING NUT  PG 363	F SPUT ONLY  PG 363	M NPT STEM  PG 364	BOLT CLAMP  PG 364	STEEL HOSE  PG 364	ALUMINUM  PG 364	**STRAINERS** PG 365	SAFETY  PG 365	FOOT VALVE  PG 365
ROUND STRAINER  PG 365	LONG STRAINER  PG 365	BOTTOM STRAINER  PG 365	BOTTOM HOLE  PG 365	FOG NOZZLE  PG 365	**FIRE HOSE FITTINGS** PG 366	FIRE HOSE  PG 366	FXM HEX ADPT  PG 366	DBL M HEX NIP  PG 366
M SWL ADAPTER  PG 366	BRASS CAP  PG 366	NOZZLE  PG 366	**BUCHANAN HOSE** PG 374-395	CLEAR BRAID  PG 374	JACK HAMMER  PG 375	JACK HAMMER  PG 375	HOT AIR BLOWER  PG 375	JACK HAMMER  PG 375
GENERAL PURPOSE  PG 376	GENERAL PURPOSE  PG 376	MARINE EXHAUST  PG 377	PUSH-ON  PG 377	FUEL LINE  PG 378	ARI SUCTION  PG 378	IND VACUUM  PG 379	BULKMASTER SOFTWALL  PG 379	EPDM SUCTION PG 380
SANDBLAST PG 380	FLEXLITE PG 381	FLEXCHEM PG 381	TANK TRUCK PG 382	FLEXLITE PG 382	TANK TRUCK PG 383	OIL VACUUM PG 383	TANK TRUCK 300 PG 384	OIL VACUUM PG 384
FRACLINE 400 PG 385	PETRO DISCHARGE PG 385	HOT TAR PG 386	PETRO DISCHARGE PG 386	PETRO DISCHARGE PG 387	STEAM 250 BLACK PG 387	STEAM 250 PG 388	BLUE LAYFLAT PG 389	BLUE ASSEMBLY PG 389
BROWN LAYFLAT PG 390	DURAFLEX PG 391	DURAFLEX PG 391	HIGH PRESSURE PG 392	HIGH PRESSURE PG 392	SATURN OLIVE PG 393	SATURN GREEN PG 393	SATW PG 394	SAT PG 394

HOSE CLAMPS
PICTORIAL INDEX

WATER SUC-  PG 395	SUPERFLEX  PG 395	**CRIMPLOK PG 366**	ALUM DC  PG 398	ALUM B  PG 398	ALUM D  PG 398	ALUM C  PG 398	SS B  PG 399	SS D  PG 399
SS DC  PG 399	SS C  PG 399	ALUM C  PG 400	ALUM C AND E  PG 400	SS CRIMPLOK  PG 400	CRIMP CAMS  PG 400	CRIMP KING  PG 401	CRIMP KING  PG 401	CRIMP COMBO  PG 401
CRIMP KING  401	SQUARE CUT  PG 402	SS FLANGE NIPPLE  PG 402	VICTAULIC  PG 402	**CRIMPLOK FERRULES PG 403-415**	**HOSE CLAMPS PG 417-436**	MINI WORM GEAR  PG 417-420	WORM GEAR CLAMP  PG 417-420	QUICK RE-LEASE  PG 421
M6S MAXI LIGHT  PG 422	T-BOLT CLAMPS  PG 422	M6 MAXI  PG 423	MKL MEGAK-LAMP  PG 423	M8 MAXI  PG 424	M10 MAXI HEAVY  PG 424	M8S STD MAXI  PG 424	T-BOLT SPRING LDD  PG 425	V-BAND  PG 426
CONSTANT TORQUE  PG 426	HEAVY DUTY  PG 427	DOUBLE BOLT  PG 427	SC SPIRAL  PG 428	M10DC MAXI  PG 428	GUILLOTINE  PG 429	SADDLE  PG 429	FLAT PG 429	LAP PG 430
BUTT PG 430	EXHAUST PG 430	EASY FORM PG 430	1-EAT PG 431	HAMMERLOCK PG 432	2-EAR PG 432	GAPLESS PG 432	SIDE JAW PG 433	PINCERS PG 433
CRIMPER PG 433	LOKING TOOL PG 433	LOKING TOOL PG 433	MARINE EM-BOSSED PG 434	MINI CLAMPS SS PG 434	MINI ALUZINC PG 434	LINED CLAMPS PG 434	VINYL COATED PG 435	RUBBER LINED PG 435
HOSE FERRULE-SS PG 436	**TUBING PG 440-443**	POLYURE-THANE PG 440	BLACK PG 440	BLUE PG 440	RED PG 440	POLYETHYL-ENE PG 440	BLACK POLY PG 440	GREEN POLY PG 440

PRESSURE WASHER/ PNEUMATICS

PICTORIAL INDEX

BLUE POLY  PG 440	RED POLY  PG 441	NYLON 12  PG 442	PVC  PG 442	MINITUBING CUT  PG 442	TUBING CUT-TER  PG 442	PLASTIC TUBE CUT  PG 442	MOUNTING RACK  PG 443	ALUMINUM  PG 443
COPPER TUBE  PG 443	SOFT COPPER  PG 443	**PRESSURE WASHER PGS 445-449**	QD NOZZLE  PG 445	MEG NOZZLE  PG 445	RUBBER TIP  PG 446	SS LIVE SWIVEL  PG 446	THERMAL RELIEF  PG 446	BOOM SWIVEL  PG 447
WAND  PG 447	SPRAY GUN  PG 447	GUN W/EXT  PG 448	MALE STEEL PLUG  PG 448	FE. STEEL PLUG  PG 449	MOLDED GRIP  PG 449	MOLDED GRIP FE  PG 449	**PNEUMATICS PG 450-472**	**QUICK DISCONNECTS PGS 451-452**
INDUSTRIAL INTERCHANGE  PG 451	BRASS M. COUP  PG 451	STEEL FE. COUP  PG 451	STEEL M. COUP  PG 451	BR. HOSE COUP  PG 451	STL. HOSE COUP  PG 451	BR. PUSH-ON  PG 452	STL PUSH-ON  PG 452	STEEL M. PLUG  PG 452
STEEL FE. PLUG  PG 452	BRASS M. PLUG  PG 452	STL HOSE PLUG  PG 452	PUSH-ON PLUG  PG 452	STL SWL M. PLUG  PG 452	**UNIVERSAL QD PGS 453**	UNIVERSAL SERIES  PG 453	BRASS FE. COUP  PG 453	BR. HOSE COUP PG 453
SS M. COU-PLER PG 453	SS FE. COU-PLER PG 453	SS MALE PLUG PG 453	SS FE. PLUG PG 453	**ARO QD PG 454**	ARO 210 PG 454	FEMALE COU-PLER PG 454	HOSE ID COUP PG 454	MALE PLUG PG 454
FEMALE PLUG PG 454	HOSE ID PLUG PG 454	**AUTO QD PGS 455-456**	AUTO INTER-CHANGE PG 455	BR. FE. COU-PLER PG 455	STL. M. COU-PLER PG 455	STL. FE. COU-PLER PG 455	BR. MALE PLUG PG 455	BR. FE. PLUG PG 455
STEEL MALE PLUG PG 455	STEEL FE. PLUG PG 456	HOSE ID COUP PG 456	PUSH-ON COUP PG 456	HOSE ID PLUG PG 456	PUSH-ON PLUG PG 456	**LINCOLN QD PG 456**	LINCOLN PG 456	FEMALE COU-PLER PG 456

PNEUMATICS
PICTORIAL INDEX

STEEL MALE  PG 456	STEEL FE.  PG 456	**MISC QD PG 457**	HIGH FLOW  PG 457	FEMALE COU-  PG 457	MALE PLUG  PG 457	FEMALE PLUG  PG 457	MOLD COOL-  PG 457	FEMALE PLUG  PG 457
MINI QD  PG 457	FE PLUG  PG 457	**MUFFLERS/ BREATHERS PG 458-460**	BR. MUFFLER  PG 458	STAINLESS  PG 458	BR. BREATH  PG 458	STLS BREATH  PG 458	PSI SNUBBER  PG 458	SPEED VALVE  PG 459
SPEED VALVE  PG 459	MUFF W/ FLOW  PG 459	HI FLOW MUFF  PG 459	HI FLOW MUFF  PG 459	HI FLOW MUFF  PG 459	HI FLOW MUFF  PG 459	NIP INLINE FILTER  PG 459	RPR AIR/OIL FILTER  459	CP BRASS MANIFOLD  PG 460
AIR REGULA- TOR  PG 460	MANIFOLD  PG 460	AIR MANIFOLD  PG 460	**SAFETY VALVES PG 461**	SAFETY VALVES  PG 461	SAFETY VALVES  PG 461	CHECK VALVE  PG 461	CHECK VALVE  PG 461	**TANK VALVES PG 462**
BIKE PUMP FITT  PG 462	INFLATOR  PG 462	SLIDE VALVE  PG 462	SPRING CORE  PG 462	SPRING CORE  PG 462	SPRING CORE  PG 462	BLK PLASTIC CAP  PG 462	DOME CAP  462	**BLOW GUNS PG 463**
CPCT BLOW GUN PG 463	SAFE BLOW GUN PG 463	SAFE BLOW GUN PG 463	CPCT BLOW GUN PG 463	PISTOL BLOW GUN PG 463	PISTOL BLO- GUN PG 463	**GAUGES & CHUCKS PG 463-465**	RUB TIP NOZZLE PG 463	HI FLOW NOZZLE PG 464
M-TIRE GAUGE PG 464	STANDARD NOZZ PG 464	VOL REGULA- TOR PG 464	EXTENSION PG 464	GUN ADAPTER PG 464	COIL AIR HOSE PG 464	COIL AIR HOSE PG 465	HEX BALL CHUCK PG 465	M. BALL CHUCK PG 465
BALL CHCK BARB PG 465	DUAL AIR CHUCK PG 465	DUAL STRT AIR PG 465	INFLATOR/ GAUGE PG 465	INFLATOR/ GAUGE PG 465	**AIR ACCESSORY KITS PG 466-468**	**GAUGES PG 469-472**	DRY GAUGE PG 469	CENTER BACK MOUNT PG 470
BALL CHCK BARBLIQUID FILLED PG 471	BALL CHCK BARBWATER TEST PG 471	DUAL STRT AIRGAS TEST PG 472	THREAD SEAL PG 465472	INFLATOR/ GAUGEBLUE SEAL TAPE PG 465472	YEL GAS TAPE PG 472	GRE OXY TAPE PG 472	GREY SS TAPE PG 472	**TRUCK & TRAILER PG 473-494**

HYDRAULICS
PICTORIAL INDEX

AIR COIL  PG 473	SLIDER COIL  PG 473	AIRLINE CABLE  PG 474	AIRBRAKE REPAIR  PG 474	POGO STICK  PG 474	HOSE HOLDER  PG 474	HOSE HOLDER  PG 474	HOSE SEPARA-TOR  PG 474	CLIP CARA-BINER  PG 475
HANGER BRACKET  PG 475	YOKE  PG 475	FRAME CLIP  PG 475	AIRHOSE CLIP  PG 475	TENDER KIT  PG 476	SPRING  PG 476	SLIDER BAR PG 477	GLADHANDS  PG 478	BRACKET MOUNT  PG 478
KNOB STYLE GH  PG 478	LEVER STYLE GH  PG 478	GLADHAND GRIP  PG 479	AL GLADHAND  PG 479	GLADHAND PACIFER  PG 479	GLADHAND SEAL  PG 479	GH COUPLING KIT  PG 479	NYLON GH HOLDER  PG 479	GH HOLDER KIT  PG 480
GLADHAND LOCK  PG 480	KING PIN LOCK  PG 481	AIR CYLINDER  PG 481	HIGH LIFT CYLINDER  PG 482	TAILGATE CYLINDER  PG 482	TAILGATE AIR CYLINDER  PG 482	FIFTH WHEEL CYLINDER  PG 483	AIR TANK CHECK  PG 483	D2 AIR GOVER-NOR  PG 483
QCK RELEASE VALVE  PG 483	R12 RELAY VALVE  PG 484	R14 RELAY VALVE  PG 484	3 WAY SOLE-NOID  PG 484	UNI SOLENOID PG 484	AIR SOLENOID PG 485	7 WAY CABLE PG 485	6 WAY ELEC CABLE PG 486	4 WAY ELEC CABLE PG 486
DUEL POLE PG 486	SINGLE POLE PG 486	PLUG PG 487	PLUG PG 487	SOCKET PG 487	7W DBLE GRIP PG 487	ADAPTER PG 487	RV 7WAY PLUG PG 487	RV 7WAY SOCK PG 488
4WAY PLUG PG 488	GROUND KIT PG 488	PROTECTOR BOOT PG 488	CIRCUIT BREAKER PG 489	NOSE BOX-DEEP PG 490	BATT GRND STRAP PG 490	SS BATTERY NUT PG 490	DEER WHISTLE PG 492	CONSP TAPE PG 492
TARP STRAP PG 492	DOT TUBING PG 494	FUEL LINE PG 494	AIR BRAKE HOSE PG 494	**HYDRAULIC ADAPTERS** PG 495-539	**TECHNICAL INFORMATION** PG 496-503	**PIPE SWIVELS** PG 504-505	M. SWL ADAPTER PG 504	FE. SWL ADAPTER PG 504

HYDRAULICS
PICTORIAL INDEX

M. ELB  PG 504	FE. UNION  PG 505	M. 45° ELBOW  PG 505	FE. 45° UNION  PG505	M. SWL TEE  505	FE. SWL TEE  PG 505	FE. SWL TEE  PG 505	**JIC 37 FLARE** PG 506-512	JIC CAP  PG 506
JIC TUBE  PG 507	JIC M. CONN  PG 507	JIC FE. CONN  PG 508	JIC RED/EXP  PG 508	PLUG  PG 508	JIC UNION ELB.  PG 509	JIC M. ELBOW  PG 509	JIC M. ELBOW  PG 509	MALE 45°  PG 510
M. BRANCH TEE  PG 510	JIC FE. TEE  PG 510	JIC UNION TEE  PG 510	JIC BULK UNION  PG 511	BULK UNION ELB  511	45° UNION ELB  PG 511	BULK BRANCH T  PG 511	BULK RUN TEE  PG 511	JIC TO FEMALE  PG 511
JIC TO MALE  PG 512	**PIPE FITTINGS** PG 512-516	PIPE COU-PLING  PG 512	HEX PIPE NIPPLE  PG 512	EXP/ PIPE ADAP  PG 513	HEX RED/ BUSH  PG 513	HEX HEAD PLUG  PG 513	HOLLOW HEX PLG  PG 513	FLUSH HLW PLUG  PG 513
SQR HEAD PLUG  PG 514	PIPE CAP  PG 514	MALE ELBOW  PG 515	45° M. ELBOW  PG 515	90° ST ELBOW  PG 515	45° ST ELBOW  PG 515	FE. ELBOW PG 515	45° FE. ELBOW PG 516	MALE PIPE TEE PG 516
FE. PIPE TEE PG 516	ST PIPE TEE PG 516	FE. RUN PIPE T PG 516	MALE PIPE TEE PG 516	FE. PIPE TEE PG 516	**O-RING ADAPTERS** PG 517-519	JIC TO O-RING PG 517	O-RING TO PIPE PG 517	O-RING TO 37° PG 518
FE. O-RING PG 518	O-RING TO FE. PG 518	O-RING PLUG PG 518	O-RING HLW PLG PG 519	O-RING PORT PG 519	**FEMALE SWIVELS** PG 519-521	JIC SWL ELBOW PG 519	JIC SWL 45° PG 519	JIC SWL TO F 90° PG 520
JIC SWL CONN PG 520	JIC SWL TO M PG 520	JIC SWL TOF ADP PG 520	JIC SWL BRANCHT PG 520	JIC SWL RUN T PG 521	**SAE O-RING ADAPTERS** PG 521-523	JIC TO ORING 90° PG 521	JIC TO ORING 45° PG 521	JIC BRANCH TEE PG 520

HYDRAULICS
PICTORIAL INDEX

JIC RUN TEE  PG 521	ORING TO F 90°  PG 522	ORING TO M 90°  PG 522	ORING JIC 90°  PG 522	F TO M ORING 90°  PG 522	M ORING SWL AD  PG 523	90° ORING SWL  PG 523	45° ORING SWL  PG 523	VITON O-RING  PG 523
NITRILE O-RING  PG 523	**O-RING FACE SEAL PGS 523-527**	BRAZE TUBE NUT  PG 523	BRAZETUBE SLV  PG 524	CAP  PG 524	BULKHEAD LKNUT  PG 524	FACE SEAL ADPT  PG 525	PLUG  525	ORFS UNION 90°  PG 525
ORFS TO M 90°  PG 525	ORFS TO PIPE 90°  PG 525	ORFS UNION T  PG 526	M ORFS TO ORB  PG 525	M TO F 37° SWL  PG 526	SWL NUT ELBOW  PG 526	37° SWIVEL  PG 526	O-RING ELBOW  PG 526	ORFS TO 45°  PG 527
SWIVEL ELBOW  PG 527	**BSPT, BSPP METRIC PGS 527-530**	JIC BSPT  PG 527	BSPT ELBOW  PG 527	HEX NIPPLE  PG 527	PLUG  PG 527	HEX NIPPLE BSPP  PG 527	COUPLING  PG 527	FEMALE SWIVEL  PG 528
ELBOW  PG 528	45° ELBOW  PG 528	MALE NIPPLE  PG 528	MALE BSPP  PG 528	SWIVEL BSPP  PG 529	PLUG BSPP  PG 529	HOLLOW BSPP PG 529	FEMALE BSPP PG 530	MALE ELBOW PG 530
STRAIGHT SWIVEL PG 530	METRIC PARALLEL PG 530	HOLLOW PG 530	FEMALE ADAPTER PG 530	**QUICK DISCONNECTS PGS 531-534**	NO SPILL PG 531	DRYBREAK PG 531	ISO-A COUPLER PG 531	ISO-A PLUG PG 531
ISO-B COUPLER PG 531	ISO-B PLUG PG 532	FLUSH FACE PG 532	FLUSH FACE PG 532	LSQ SERIES PG 532	LSQ SERIES PG 533	AG SERIES PG 533	KZE SERIES PG 534	**VALVES, FLANGES PGS 534-539**
FLOW VALVE PG 534	NEEDLE VALVE PG 535	PRESSURE VALVE PG 535	JIC FLANGE PG 537	JIC FLANGE PG 537	JIC FLANGE PG 537	FLANGE KIT PG 538	FLANGE KIT PG 538	SPLIT FLANGE PG 538

STAINLESS STEEL
PICTORIAL INDEX

FLANGE PLUG  PG 538	FLANGE HALF  PG 539	FLANGE PAD  PG 539	FLANGE HALF  PG 539	STAINLESS STEEL PG 543-555	PIPE SWIVEL  PG 543	PIPE SWIVEL  PG 543	TUBE SLEEVE  PG 544	TUBE NUT  PG 544
CAP  PG 544	MALE  PG 545	UNION  PG 546	FEMALE  PG 546	PLUG  PG 546	MJIC X FJIC  PG 547	BULKHEAD  PG 547	FEMALE BULK-  PG 547	BULKHEAD  PG 547
BULKHEAD COUPLING  PG 548	PIPE NIPPLE  PG 548	HEX PIPE NIPPLE  PG 548	COUPLING  PG 549	ADAPTER  PG 549	PLUG  PG 549	PLUG  PG 549	BUSHING  PG 550	STREET ELBOW  PG 550
MALE ELBOW  PG 551	ALL MALE TEE  PG 551	ELBOW  PG 551	TEE  PG 552	MORB X FIP  PG 552	MJIC X MORB  PG 553	PLUG  PG 553	PLUG  PG 554	FIP X FJIC SWIVEL  PG 554
MIP X FJIC SWIVEL  PG 555	MALE API  PG 555	JIC 90 SWIVEL  PG 555	MALE CRIMP  PG 555	FEMALE CRIMP  PG 555				

PIPE FITTINGS



Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

Typical Application: Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

Pressure: Operating pressure up to 1200 PSI.
Vibration: Fair resistance.
Temperature Range:
-65°F to +250°F (-53°C to +121°C).

Used With: Brass, bronze, copper, steel, aluminum and iron pipe.

Tolerance : +/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

Conformance: Meets specifications and standards of ASA, ASME and SAE

- Not lead free
- **"L" at the end of a Part# means Light Pattern**

- these fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

- **Assembly Instructions**

1 - Tighten approximately 2-1/2 turns past hand tight.
2 - Fittings with Everseal tighten two turns past hand tight. Brittle materials require special cautions.

- see page 547-550 for stainless steel
- see page 313 for steel fittings
- see page 295-297 for plastic pipe fittings.

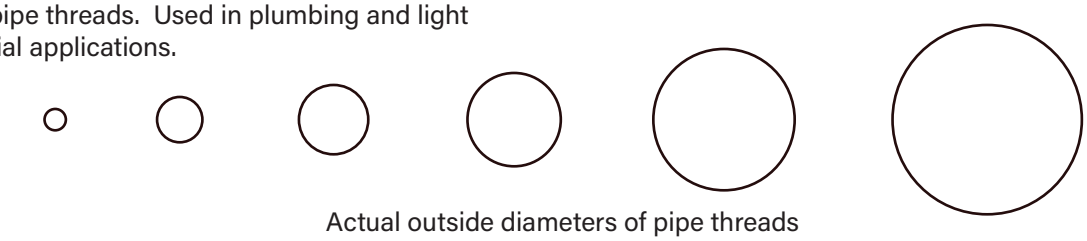




- Lead Free Fittings
see pages 157-160
- For Bronze & Larger Sizes
see pages 248-268







Actual outside diameters of pipe threads



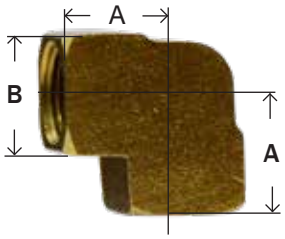
Actual Male Thread Profiles

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 130238

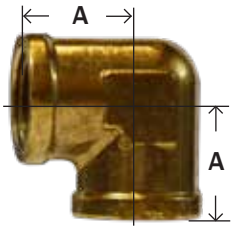


100

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28001	1/8″	0.55	0.56	0.09	----
28002	1/4″	0.78	0.68	0.13	----
28003	3/8″	0.84	0.81	0.16	----
28004	1/2″	1.09	1.00	0.34	----
28005	3/4″	1.16	1.25	0.60	----
28015B	3/8" x 1/4"	0.84	0.81	0.18	----
28053B	1/2" x 1/4"	1.09	1.00	0.37	----
28016B	1/2" x 3/8"	1.09	1.00	0.36	----

100 2200P 3500 302 200

90° FORGED FEMALE ELBOW

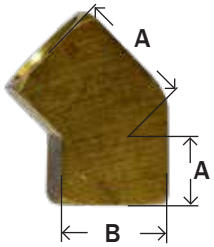


100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28009	1/8″	0.57	0.50	0.04	----
28010	1/4″	0.70	0.68	0.10	----
28011	3/8″	0.81	0.81	0.12	----
28012	1/2″	1.00	1.00	0.23	----
28013	3/4″	1.13	1.25	0.42	----
28014	1/4″ x 1/8″	0.72	0.65	0.12	----
28015	3/8″ x 1/4″	0.81	0.81	0.15	----
28016	1/2″ x 3/8″	1.00	1.00	0.28	----
28017	1"	1.42	1.50	0.75	----

1200P E7 100AF 100B

45° FEMALE ELBOW



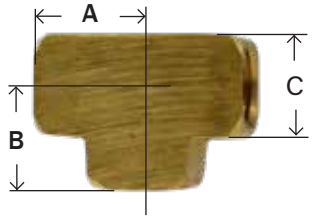
10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28018	1/8″	0.45	0.56	0.06	----
28019	1/4″	0.66	0.68	0.12	----
28020	3/8"	0.69	0.81	0.16	----
28021B	1/2"	0.94	1.00	0.25	----

129 2201P 205 23355 45EZ 105 100-45A

UNION TEE

SAE# 130438

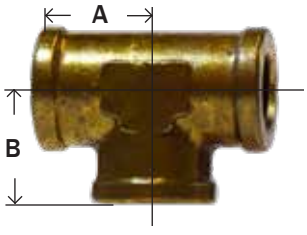


101

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28022	1/16"	0.55	0.55	0.58	0.11	----
28024	1/8″	0.55	0.55	0.56	0.08	----
28025	1/4″	0.78	0.78	0.68	0.17	----
28026	3/8″	0.84	0.84	0.81	0.22	----
28027	1/2″	1.09	1.09	1.00	0.43	----
28028	3/4″	1.16	1.16	1.25	0.64	----

311 101A 322 2203P 3700 203

UNION FORGED TEE



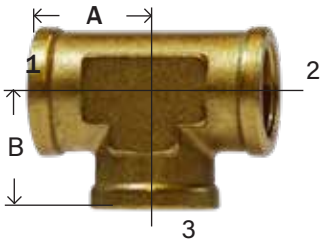
101F

PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.	
28032	1/8″	0.56	0.50	0.06	----
28033	1/4″	0.71	0.68	0.13	----
28034	3/8″	0.81	0.81	0.16	----
28035	1/2″	1.00	1.00	0.27	----
28036	3/4″	1.16	1.25	0.53	----
28023	1″	1.42	1.50	.924	----

1203P LT7 101AF 101B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

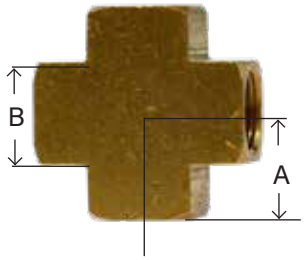
REDUCING FORGED TEES



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.	
28029	1/8"	1/8"	1/4"	0.72	0.69	0.16	----
28030	1/4"	1/4"	1/8"	0.72	0.69	0.14	----
28031	1/4"	1/4"	3/8"	0.81	0.81	0.21	----
28038	3/8"	1/4"	3/8"	0.81	0.81	0.18	----
28039	3/8"	3/8"	1/4"	0.81	0.81	0.18	----
28046	1/2"	1/2"	3/8"	1.00	1.00	0.30	----
28047	3/4"	1/2"	3/4"	1.20	1.25	0.59	----
28048	3/4"	3/4"	1/2"	1.16	1.25	0.59	----

CROSS

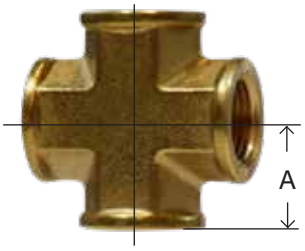


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28041	1/8"	0.55	0.56	0.10	----
28042	1/4"	0.78	0.68	0.21	----
28043	3/8"	0.84	0.81	0.25	----
28044	1/2"	1.09	1.00	0.51	----
28045	3/4"	1.16	1.25	0.75	----

2205P 3950 228 102A 102BE

FORGED CROSS



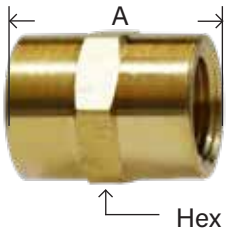
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28049	1/8"	0.56	0.50	0.06	----
28050	1/4"	0.72	0.69	0.15	----
28051	3/8"	0.81	0.81	0.18	----
28052	1/2"	1.00	1.00	0.34	----

C7 105 102AF 102B

COUPLING

SAE# 130138



103

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28057	1/16"	0.75	0.44	0.02	
28058L	1/8"	0.75	0.50	0.02	----
28058	1/8"	0.75	0.56	0.03	----
28059L	1/4"	0.88	0.63	0.03	----
28059	1/4"	1.12	0.75	0.09	----
28060L	3/8"	1.00	0.81	0.06	----
28060	3/8"	1.12	0.87	0.10	----
28061L	1/2"	1.19	0.93	0.09	----
28061	1/2"	1.50	1.06	0.19	----
28062L	3/4"	1.19	1.25	0.18	----
28062	3/4"	1.53	1.25	0.24	----
28063	1"	1.89	1.50	.357	----

207P 371 3300 103AH 103B

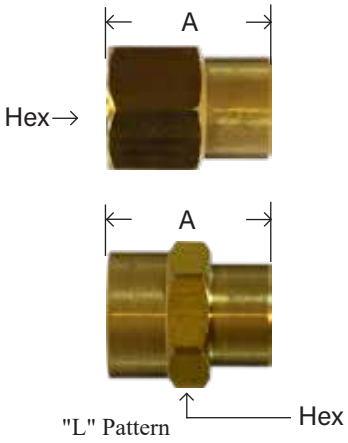
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

REDUCING COUPLING

SAE# 130138



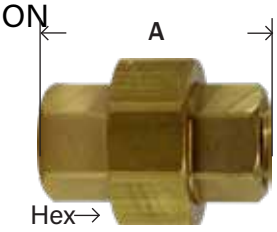
119

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28181L	1/4" x 1/8"	0.94	0.62	0.04	----
28181	1/4" x 1/8"	0.97	0.75	0.08	----
28182	3/8" x 1/8"	0.94	0.87	0.10	----
28183L	3/8" x 1/4"	1.00	0.81	0.06	----
28183	3/8" x 1/4"	1.16	0.87	0.12	----
28180*	1/2" x 1/8"	1.19	0.93	0.15	----
28184L	1/2" x 1/4"	1.11	1.00	0.10	----
28184	1/2" x 1/4"	1.28	1.06	0.20	----
28185L	1/2" x 3/8"	1.19	0.93	0.10	----
28185	1/2" x 3/8"	1.38	1.06	0.20	----
28187	3/4" x 1/4"	1.19	1.19	0.17	----
28188*	3/4" x 3/8"	1.32	1.37	0.20	----
28189*	3/4" x 1/2"	1.19	1.18	0.14	----
28178	1" x 1/2"	1.50	1.56	0.41	----
28179	1" x 3/4"	1.56	1.56	0.39	----

*Not to SAE specs

377 3300 208P 108 119B 119AH

UNION

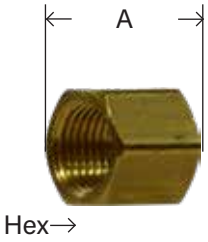


104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28067	1/8"	1.25	0.94	0.13	----
28068	1/4"	1.31	1.06	0.18	----
28069	3/8"	1.75	1.25	0.33	----
28070	1/2"	1.79	1.56	0.50	----
28071	3/4"	1.96	1.68	0.47	----

3250 212P 104A 104B

CAP



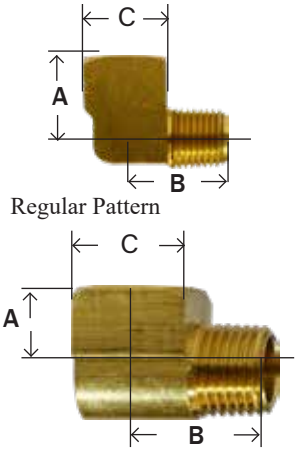
108

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28075	1/8"	0.47	0.56	0.03	----
28076	1/4"	0.60	0.68	0.04	----
28077	3/8"	0.69	0.81	0.06	----
28078	1/2"	0.78	0.93	0.08	----
28079	3/4"	0.94	1.25	0.16	----
28080	1"	1.13	1.50	0.23	----

3129 213P 23129 108A 108B

90˚ STREET ELBOW

SAE# 130239



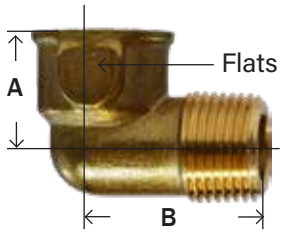
116

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28161	1/16"	0.69	0.60	0.47	0.04	----
28156	1/8"	0.48	0.66	0.56	0.05	----
28156S	1/8" short	0.34	0.57	0.50	0.03	----
28157	1/4"	0.72	0.91	0.735	0.09	----
28157S	1/4" short	0.45	0.78	0.68	0.07	----
28158	3/8"	0.78	0.97	0.81	0.16	----
28159	1/2"	1.03	1.25	1.00	0.33	----
28160	3/4"	1.12	1.38	1.25	0.52	----

2202P 304 115 202 3400 116A

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED 90° STREET ELBOW

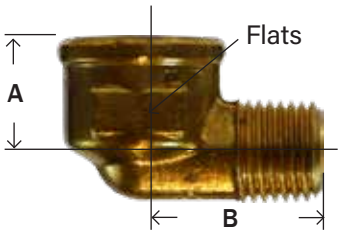


116F

PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28165	1/8″	0.61	0.85	0.62	0.06	----
28166	1/4″	0.50	0.86	0.72	0.08	----
28167	3/8″	0.70	1.00	0.88	0.10	----
28168	1/2″	0.96	1.43	1.00	0.20	----
28169	3/4″	0.90	1.40	1.25	0.25	----

5E8 1202P 116AF 116B

FORGED REDUCING 90° STREET ELBOW



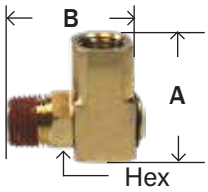
128

*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28259*	1/8" x 1/16"					----
28260	1/8″ x 1/4″	0.50	0.87	0.71	0.08	----
28261B*	1/4″ x 1/8″	0.53	0.72	0.69	0.07	----
28261	1/4″ x 1/8″	0.50	0.81	0.72	0.06	----
28262	1/4″ x 3/8″	0.93	1.06	0.59	0.12	----
28263	3/8″ x 1/4″	0.58	0.94	0.81	0.07	----
28264	3/8″ x 1/2″	0.97	1.36	1.00	0.28	----
28265	1/2″ x 3/8″	0.96	1.37	1.00	0.22	----
28265B*	1/2" x 3/8"	1.03	1.11	1.00	0.24	----

PIPE SWIVEL 90° STREET ELBOW

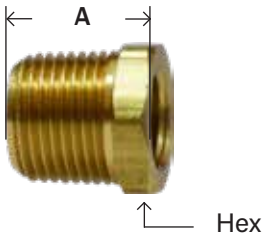
▪ Burst Pressure 1,200 PSI ▪ Working Pressure 300 PSI



PART #	MIP XFIP THREAD SIZE NPTF	A	B	HEX	APPROX. WT. LBS.	
28430	1/4″	1.18	1.25	.625	0.22	----

HEX BUSHING

SAE# 130140



110

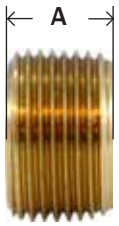
PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.	
28101	1/8" x 1/16"				
28102L	1/4″ x 1/8″	0.62	0.56	0.02	----
28102	1/4″ x 1/8″	0.75	0.56	0.04	----
28103	3/8″ x 1/8″	0.75	0.68	0.05	----
28104L	3/8″ x 1/4″	0.69	0.68	0.03	----
28104	3/8″ x 1/4″	0.75	0.75	0.05	----
28105L	1/2″ x 1/8″	0.81	0.81	0.08	----
28105	1/2″ x 1/8″	1.00	0.87	0.10	----
28106L	1/2″ x 1/4″	0.81	0.81	0.08	----
28106	1/2″ x 1/4″	1.00	0.87	0.11	----
28107L	1/2″ x 3/8″	0.81	0.81	0.05	----
28107	1/2″ x 3/8″	1.00	0.87	0.10	----
28108	3/4″ x 1/8″	0.94	1.06	0.20	----
28109L	3/4″ x 1/4″	0.94	1.06	0.18	----
28110L	3/4″ x 3/8″	0.94	1.06	0.15	----
28111L	3/4″ x 1/2″	0.94	1.06	0.11	----
28111	3/4″ x 1/2″	1.00	1.12	0.14	----
28091	1" x 1/8"	1.15	1.37	0.29	----
28112	1″ x 1/4″	1.15	1.37	0.32	----
28113	1″ x 3/8″	1.12	1.37	0.30	----
28114	1″ x 1/2″	1.31	1.44	0.29	----
28115	1″ x 3/4″	1.31	1.37	0.20	----

373 3220 209P 110A 110B

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PIPE
BRASS FITTINGS

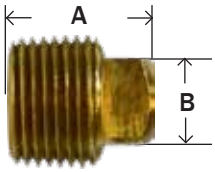
FACE BUSHING



110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.	
28121	1/4" x 1/8"	0.45	0.01	----
28122	3/8" x 1/8"	0.50	0.03	----
28116	3/8" x 1/4"	0.50	0.02	----
28090	1/2" x 1/8"	0.56	0.06	----
28128	1/2" x 1/4"	0.56	0.05	----
28117	1/2" x 3/8"	0.56	0.03	----
28129	3/4" x 1/4"	0.62	0.11	----
28130	3/4" x 3/8"	0.62	0.08	----
28118	3/4" x 1/2"	0.64	0.03	----
28120	1" x 1/2"	0.75	0.11	----
28119	1" x 3/4"	0.77	0.10	----

SQUARE HEAD PLUG
1/8 - 1/2 Solid



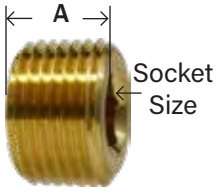
109

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28084	1/8"	0.58	0.27	0.02	----
28085	1/4"	0.80	0.37	0.03	----
28086	3/8"	0.80	0.43	0.06	----
28087	1/2"	1.07	0.55	0.13	----
28088**	3/4"	1.09	0.61	0.20	----
28089**	1"	1.24	0.81	0.35	----

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG
3/4" taper thread



109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	
28092	1/16"	0.30	0.12	0.01	----
28093	1/8"	0.30	0.18	0.01	----
28094	1/4"	0.45	0.26	0.02	----
28095	3/8"	0.45	0.31	0.03	----
28096	1/2"	0.61	0.39	0.05	----

3153 219P 109CS 118

SLOTTED-HEAD PLUG

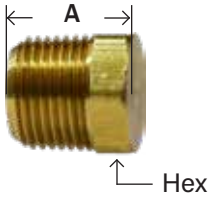


117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	
28174	1/8"	0.31	0.01	----
28175	1/4"	0.42	0.02	----
28176	3/8"	0.45	0.05	----

220P 3150 117A 117B

CORED HEX PLUGS



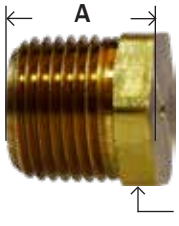
121

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28200	1/16"	0.48	0.38	0.01	----
28201	1/8"	0.55	0.43	0.01	----
28202	1/4"	0.62	0.56	0.02	----
28203	3/8"	0.72	0.68	0.06	----
28204	1/2"	0.81	0.87	0.09	----
28205	3/4"	0.94	1.06	0.16	----

218P 3152 121A 103 121B PPH 218P

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SOLID HEX HEAD PLUGS



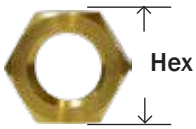
121S

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28201S	1/8′	0.55	0.43	0.02	----
28202S	1/4″	0.75	0.56	0.05	----
28203S	3/8″	0.66	0.68	0.07	----
28204S	1/2″	0.81	0.87	0.12	----
28205S	3/4″	0.92	1.06	0.24	----

121AS

LOCKNUT

- Jam Nuts
- Straight pipe thread

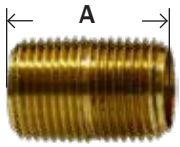


111

PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.	
28123	1/8″	0.68	0.19	0.02	----
28124	1/4″	0.87	0.25	0.04	----
28125	3/8″	1.00	0.31	0.04	----
28126	1/2″	1.125	0.25	0.04	----
28127	3/4"	1.38	0.38	0.09	----

210P 21102 111A 111B

CLOSE NIPPLE

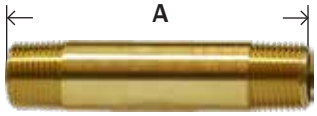


112

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	
28131	1/8″	0.75	0.01	----
28132	1/4″	0.88	0.02	----
28133	3/8″	1.00	0.05	----
28134	1/2″	1.12	0.06	----
28135	3/4″	1.31	0.11	----

165 215PN 3326 112A 112B

LONG NIPPLE



113

- NOTE: For longer lengths and larger diameters, see our red brass nipples section.



PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.	
28140	1/8″	1.50	0.03	----
28141	1/8″	2.00	0.04	----
28142	1/8″	2.50	0.06	----
28143	1/8″	3.00	0.06	----
28475	1/8"	3.50	0.07	----
28144	1/4″	1.50	0.03	----
28145	1/4″	2.00	0.05	----
28146	1/4″	2.50	0.08	----
28147	1/4″	3.00	0.10	----
28481	1/4"	3.50	0.12	----
28148	3/8″	1.50	0.06	----
28149	3/8″	2.00	0.10	----
28150	3/8″	2.50	0.10	----
28151	3/8″	3.00	0.13	----
28487	3/8"	3.50	0.17	----
28152	1/2″	1.50	0.08	----
28153	1/2″	2.00	0.12	----
28154	1/2″	2.50	0.16	----
28155	1/2″	3.00	0.20	----
28493	1/2"	3.50	0.24	----
28136	3/4"	1.50	0.12	----
28497	3/4"	2.00	0.18	----
28498	3/4"	2.50	0.23	----
28499	3/4"	3.00	0.28	----

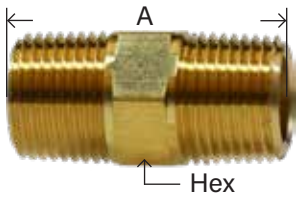
113B 113A 166 3327, 3328, 3329, 3330 3331 215PNL

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PIPE
BRASS FITTINGS

HEX NIPPLE

SAE# 130137



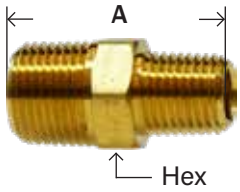
122

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28210	1/16"	0.97	0.38	0.02	----
28211L	1/8"	0.91	0.43	0.02	----
28211	1/8"	0.97	0.43	0.03	----
28212L	1/4"	1.12	0.56	0.04	----
28212	1/4"	1.38	0.56	0.06	----
28213L	3/8"	1.25	0.68	0.07	----
28213	3/8"	1.41	0.68	0.07	----
28214L	1/2"	1.50	0.87	0.11	----
28214	1/2"	1.81	0.87	0.17	----
28215L	3/4"	1.55	1.07	0.17	----
28215	3/4"	1.96	1.13	0.23	----
28216L	1"	1.75	1.39	0.22	----

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

SAE# 130137



123

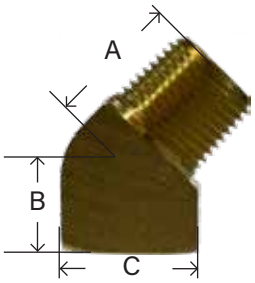
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28218	1/8" x 1/16"	1.00	0.56	0.05	----
28220L	1/4" x 1/8"	1.00	0.56	0.04	----
28220	1/4" x 1/8"	1.19	0.56	0.04	----
28221L	3/8" x 1/8"	1.11	0.68	0.06	----
28221	3/8" x 1/8"	1.22	0.68	0.07	----
28222L	3/8" x 1/4"	1.19	0.68	0.06	----
28222	3/8" x 1/4"	1.41	0.68	0.07	----
28223L	1/2" x 1/4"	1.34	0.87	0.09	----
28223	1/2" x 1/4"	1.62	0.87	0.12	----
28224L	1/2" x 3/8"	1.41	0.87	0.11	----
28224	1/2" x 3/8"	1.62	0.87	0.12	----
28225L	3/4" x 1/2"	1.81	1.06	0.19	----
28225	3/4" x 1/2"	1.50	1.06	0.15	----
28227	1" x 3/4"	2.31	1.38	0.38	----

216P 3325 379 122AH 122B

45° STREET ELBOW

SAE# 130339

124

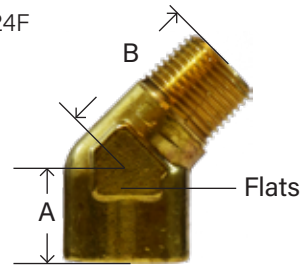


PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	
28230	1/8"	0.38	0.50	0.56	0.03	----
28231	1/4"	0.56	0.72	0.68	0.09	----
28232	3/8"	0.56	0.78	0.81	0.12	----
28233	1/2"	0.75	1.00	1.00	0.20	----
28234	3/4"	0.75	1.06	1.25	0.34	----

306 3350 2214P 224

45⁰ FORGED STREET ELBOW

124F



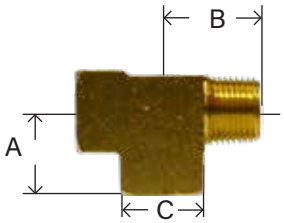
PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	
28238	1/8"	0.63	0.81	0.56	0.05	----
28239	1/4"	0.63	1.06	0.81	0.11	----
28240	3/8"	0.72	1.06	0.93	0.17	----

45E8 124B

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STREET TEE/ SERVICE TEE/ MALE RUN TEE

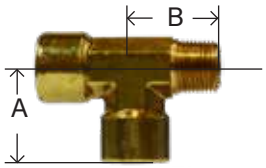
SAE# 130424



127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28245	1/8″	0.55	0.66	0.56	0.08	----
28246	1/4″	0.78	0.91	0.68	0.17	----
28247	3/8″	0.84	0.97	0.81	0.22	----
28248	1/2″	1.09	1.25	1.00	0.40	----
28249	3/4″	1.16	1.39	1.25	0.60	----

FORGED STREET TEE



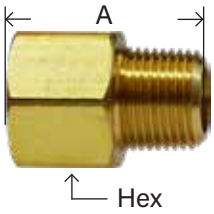
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28253	1/8″	0.56	0.75	0.50	0.05	----
28254	1/4″	1.03	1.00	0.46	0.13	----
28255	3/8″	1.19	1.09	0.68	0.24	----
28256	1/2″	1.52	1.40	0.88	0.45	----

107 T8 127B

EXTENDER ADAPTER

SAE# 130139



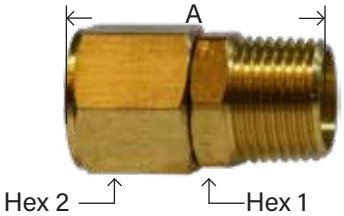
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.	
28190L	1/8″ x 1/8″	0.83	0.50	0.03	----
28190	1/8″ x 1/8″	0.88	0.56	0.04	----
28191L	1/4″ x 1/8″	0.94	0.62	0.04	----
28191	1/4″ x 1/8″	1.06	0.75	0.07	----
28192L	1/4″ x 1/4″	1.00	0.62	0.04	----
28192	1/4″ x 1/4″	1.25	0.75	0.07	----
28198	3/8″ x 1/8″	1.00	0.81	0.06	----
28193L	3/8″ x 1/4″	1.12	0.81	0.08	----
28193	3/8″ x 1/4″	1.25	0.87	0.09	----
28194L	3/8″ x 3/8″	1.24	0.81	0.10	----
28194	3/8″ x 3/8″	1.25	0.87	0.11	----
28197	1/2" x 1/8"	1.09	0.94	0.07	----
28199	1/2″ x 1/4″	1.46	1.06	0.08	----
28195L	1/2″ x 3/8″	1.19	0.93	0.09	----
28195	1/2″ x 3/8″	1.47	1.06	0.18	----
28196L	1/2" x 1/2"	1.25	0.94	0.10	----
28196	1/2″ x 1/2″	1.66	1.06	0.12	----
28207	3/4″ x 3/8″	1.59	1.25	0.26	----
28208	3/4″ x 1/2″	1.69	1.37	0.14	----
28208L	3/4″ x 1/2″	1.22	1.25	0.13	----
28209	3/4″ x 3/4″	1.69	1.37	0.34	----

375 222P 3200 R1 120AH 120B

PIPE SWIVEL ADAPTER

*300 PSI all sizes



PART #	THREAD SIZE NPTF FXM	A	HEX 1	HEX 2	APPROX. WT. LBS.	
28424	1/8"	1.10	0.43	0.50	0.05	----
28425	1/4″	1.34	0.56	0.62	0.06	----
28426	3/8″	1.36	0.68	0.75	0.08	----
28427	1/2"	1.87	0.87	0.95	0.10	----

MALE NPT X FEMALE NPT

- 360° Turning
- Swivels



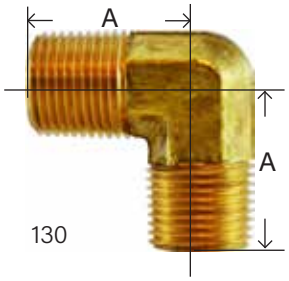
PART #	SIZE	
320061	1/4	----

344R 3183

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

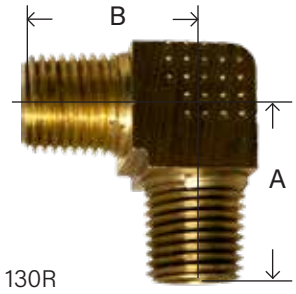
FORGED 90° MALE ELBOW



PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28266	1/8″	0.79	0.38	0.04	----
28267	1/4″	0.87	0.45	0.06	----
28268	3/8″	1.06	0.59	0.12	----
28269	1/2″	1.38	0.78	0.21	----

LE5 3455 116AMF

BARSTOCK 90° MALE ELBOW



PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	
28266B	1/8"	0.69	0.56	0.08	----
28267B	1/4"	0.95	0.59	0.09	----
28268B	3/8"	1.01	0.71	0.15	----
28269B	1/2"	1.40	1.00	0.38	----
28270B	3/4"	1.50	1.25	0.55	----
28276B	1/2" x 3/8"	1.12	1.00	0.35	----

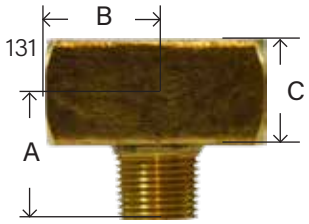
FORGED 90° MALE REDUCING ELBOW



PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28274	1/4″x 1/8″	0.88	0.78	0.47	0.06	----
28275	3/8″ x 1/4″	0.90	0.90	0.46	0.06	----
28276	1/2″ x 3/8″	1.12	1.00	0.59	0.12	----

MALE BRANCH TEE

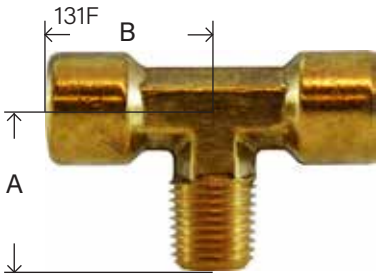
SAE# 130425



PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	
28281	1/8″	0.66	0.55	0.56	0.08	----
28282	1/4″	0.91	0.78	0.68	0.15	----
28283	3/8″	0.97	0.84	0.81	0.22	----
28284	1/2″	1.25	1.09	1.00	0.40	----
28285	3/4″	1.38	1.16	1.25	0.62	----

T9 X106 23601 3600 2224P 226 329 128

FORGED MALE BRANCH TEE



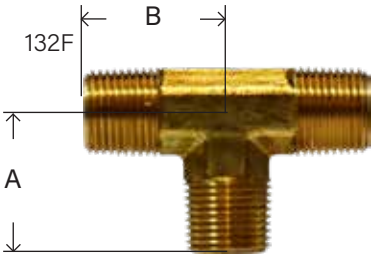
PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28281F	1/8″	0.75	0.56	0.50	0.06	----
28282F	1/4″	1.00	1.03	0.46	0.12	----

T9

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PIPE
BRASS FITTINGS

FORGED ALL MALE TEE

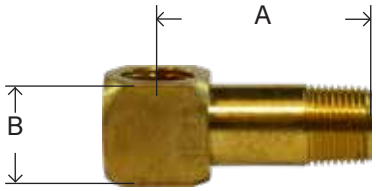


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
28290	1/8″	0.75	0.75	0.43	0.06	----
28291	1/4″	0.86	0.86	0.43	0.08	----
28292	3/8″	1.09	1.09	0.60	0.16	----
28293	1/2″	1.22	1.22	0.68	0.22	----
28294	3/4″	1.43	1.43	0.87	0.38	----

T12 M101

LONG STREET ELLS

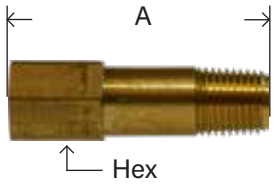
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	
28440	1/8″	1-3/16″	0.50	0.06	----
28441	1/8″	1-7/16″	0.50	0.06	----
28442	1/8″	1-11/16″	0.50	0.06	----
28443	1/8″	1-7/8″	0.50	0.16	----
28328	1/4″	1-3/16″	0.75	0.12	----
28329	1/4″	1-7/16″	0.75	0.14	----
28330	1/4″	1-11/16″	0.75	0.15	----
28331	1/4"	1-7/8"	0.62	0.09	----
28332	1/4″	2-1/4″	0.75	0.17	----
28333	3/8″	1-3/4″	0.87	0.22	----

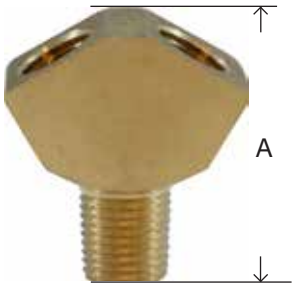
LONG EXTENSION ADAPTERS

D.O.T. Approved

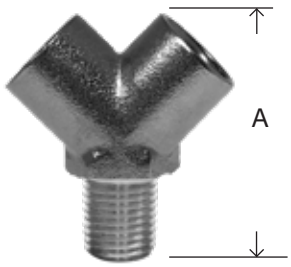


PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
28335	1/8″	1-1/4″	0.50	0.04	----
28336	1/8″	1-3/4″	0.50	0.05	----
28337	1/8″	3″	0.50	0.09	----
28338	1/4″	1-9/16″	0.62	0.07	----
28339	1/4″	1-13/16″	0.62	0.08	----
28340	1/4″	2-1/16″	0.62	0.10	----

PIPE WYE FIP X MIP



28-295



28-296

PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	
28295	1/4"	1.56	.15	----
28296	1/4 N/P	1.4	.12	----

PIPE WYE FIP X FIP - NICKEL PLATED



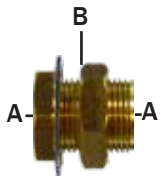
PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	
28298	1/4	1.4	.12	----

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BULKHEAD FITTINGS
BRASS FITTINGS

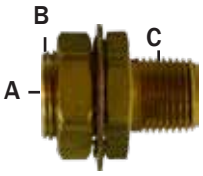
BULKHEAD / ANCHOR / FRAME COUPLINGS

FEMALE PIPE X
FEMALE PIPE



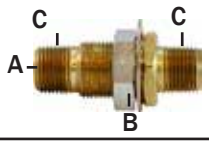
Part #	Terminal Bolts/ Frame A	B	Hole Size	Length (in.)	
28299	1/8-27 NPTF	5/8-18 UNS	5/8	0.96	----
28300	1/8-27 NPTF	5/8-18 UNS	5/8	1-1/2	----
28301	1/4-18 NPTF	3/4-16 UNS	3/4	15/16	----
28302	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	----
28315*	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2	----
28303	3/8-18 NPTF	1-14 UNS	1	1-5/16	----
28304	1/2-14 NPTF	1-1/8-14 UNS	1-1/8	1-1/2	----
28311	3/4-14 NPTF	1-5/16-12	1-5/16	1-1/2	----
28316**	1-11/1/2	1-5/8-14	1-5/8	1.68	----

* Same as 28-302 except with a larger mounting nut. **Without washer



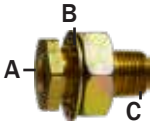
FEMALE PIPE X MALE PIPE

	A	B	C		
28317	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-1/8	----
28318	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-11/16	----
28319	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-29/32	----



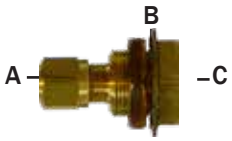
FEMALE PIPE X MALE PIPE

28313	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-7/8	----



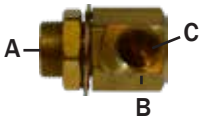
FEMALE PIPE X MALE PIPE

28346	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-7/8	----
28347	1/2-14 NPTF	1-14 UNS	1/2-14 NPTF	2-3/8	----



TUBE X FEMALE PIPE

28321	1/2-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-5/16	----
28322	3/8-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-3/8	----



FEMALE PIPE X CLAMPING STUD ELBOW

28348	3/8-18 NPTF	7/8-20 UNEF	3/8-18 NPTF	2-5/16	----



BRASS MARINE BULKHEAD

46540	5/16 Hose ID	----	----	2.37	----
46541	3/8 Hose ID	----	----	2.37	----

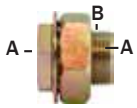
CROSSOVER NUMBERS

28-300	207x2	129A-A	50004	55207								1495B-A	ACBH207-2	207ACBH-2					
28-301	207X4	129AS-B		55611		S611	114-44	1345	382-44S	392C-94			ACBHS207-4						
28-302	207X4	129A-B	50005	55661			114B-44	1344	382-44L		035081		ACBH207-4	207ACBH-4			11306		90648
28-303	207X6	129A-C	50006	55607		S661/ S607	114-66	1346	382-66		035087		ACBH207-6	207ACBH-6			11307	17709	
28-304	207X8	129A-D	50007	55807		S807	114-88	1351					ACBH207-8	207ACBH-8					
28-317				55615		S615	117-84												
28-318				55620		S620			381-86S						11304				
28-319			50001				115-86				035079	1496-DC							
28-313			50010	55600		S664	115-88	1342	380-84	5730	035021				11300	55X6			
28-346			50013	55613		S613													
28-347			50012	55629		S629					035039								
28-321					391-86/1347	S608													
28-322					391-66	S609													
28-348				55616															

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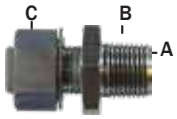
BULKHEAD FITTINGS
BRASS FITTINGS

STEEL BULKHEAD FITTINGS

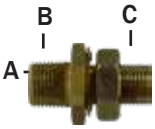


Part #	Terminal Bolts/ Frame A	B	C	Length (in.)	List
28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	----
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	----
28308	3/8-18 NPTF	1 - 14 UNS		1.31	----

FEMALE PIPE X MALE PIPE

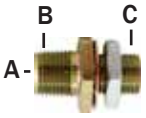


28309	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.16	----
28310	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.53	----

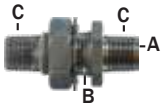


28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	----

FEMALE PIPE X MALE PIPE



28325	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	1-11/16	----



28312	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2.94	----
28320	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	3-15/16	----

STAINLESS STEEL BULKHEAD FITTINGS

- Temperature range: -20F°- 360F°
- Working pressure: 1450 - 2175PSI

BULKHEAD FITTINGS - STAINLESS STEEL 316L NPT (1/8-1/2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	
28300SS	1/8"	0.701	0.866	0.748	----
28301SS	1/4"	0.858	1.063	0.748	----
28303SS	3/8"	1.055	1.260	1.102	----
28304SS	1/2"	1.173	1.417	1.378	----

BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	
63214	3/4"	1-5/8"	2-15/32"	1-13/16"	----
63215	1"	2-1/4"	3-1/16"	2-7/8"	----
63216	1-1/4"	2-1/4"	3-1/16"	2-3/8"	----
63217	1-1/2"	3"	4-1/4"	2-5/8"	----
63218	2"	3"	4-1/4"	2-5/8"	----

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HOSE BARB FITTINGS

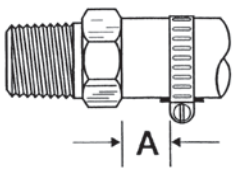


▪ **Temperature and Working Pressure Ranges**
From -40^{0}F to + 160^{0}F at 150 PSI maximum.

▪ **Tolerance**
+/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

Note: These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

▪ **Assembly Instructions**
1- Cut hose cleanly and squarely to length.
2- Slide clamp on hose.
3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.





▪ For Lead Free AB1953 Compliant Fittings
see pages 161
Other Barbs available



See page 334-347 for plastic hose barb fittings



See page 27-28 for stainless steel hose barbs



See page 358 for King Nipples

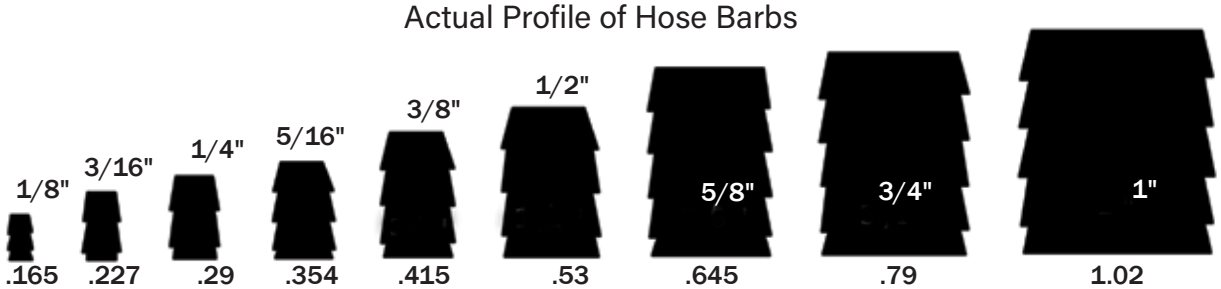
Stainless Steel hose barbs for beverage service
available -



See beverage fitting section, pg. 28-29

Hose Size	A
3/16"	1/4"
1/4"	1/4"
5/16"	1/4"
3/8"	1/8"
1/2"	1/8"
5/8"	1/8"
3/4"	1/8"

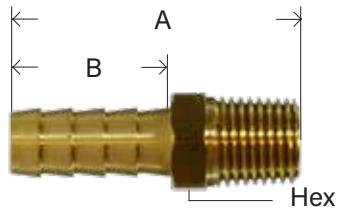
Actual Profile of Hose Barbs



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

RIGID MALE ADAPTER

- These are not Lead Free



29
129

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32950	1/16" x 10/32"	0.90	0.45	0.38	0.01	----
32951	1/16" x 1/16"	0.91	0.48	0.38	0.01	----
32912	1/8" x 10/32"	0.92	0.48	0.38	0.01	----
32300	1/8" x 1/16"	0.93	0.48	0.38	0.01	----
32001 *	1/8" x 1/8"	1.19	0.69	0.43	0.02	----
32027	1/8" x 1/4"	1.16	0.46	0.56	0.02	----
32952	3/16" x 1/16"	1.20	0.75	0.38	0.02	----
32002 *	3/16" x 1/8"	1.19	0.75	0.43	0.02	----
32003 *	3/16" x 1/4"	1.37	0.69	0.56	0.04	----
32953	3/16" x 3/8"	1.44	0.69	0.68	0.04	----
32301	1/4" x 1/16"	1.44	0.88	0.43	0.02	----
32004 *	1/4" x 1/8"	1.47	0.97	0.43	0.02	----
32005 *	1/4" x 1/4"	1.72	0.97	0.56	0.04	----
32006 *	1/4" x 3/8"	1.72	0.97	0.68	0.05	----
32007	1/4" x 1/2"	1.72	0.81	0.87	0.10	----
32954	1/4" x 3/4"	1.86	0.96	1.06	0.15	----
32008 *	5/16" x 1/8"	1.47	0.97	0.43	0.02	----
32009 *	5/16" x 1/4"	1.72	0.97	0.56	0.04	----
32010 *	5/16" x 3/8"	1.76	0.97	0.68	0.06	----
32011 *	3/8" x 1/8"	1.53	0.97	0.56	0.03	----
32012 *	3/8" x 1/4"	1.75	0.97	0.56	0.05	----
32013 *	3/8" x 3/8"	1.72	0.96	0.68	0.06	----
32014 *	3/8" x 1/2"	1.87	0.97	0.87	0.09	----
32026 *	3/8" x 3/4"	1.97	0.97	1.06	0.16	----
32956	7/16" x 1/4"	1.75	0.97	0.56	0.05	----
32957	7/16" x 3/8"	1.73	0.97	0.70	0.07	----
32958	7/16" x 1/2"	1.87	0.97	0.88	0.10	----
32302	1/2" x 1/8"	1.57	0.95	0.56	0.06	----
32015 *	1/2" x 1/4"	1.72	0.97	0.56	0.04	----
32016 *	1/2" x 3/8"	1.76	0.97	0.68	0.07	----
32017 *	1/2" x 1/2"	1.87	0.96	0.87	0.11	----
32018 *	1/2" x 3/4"	1.94	0.97	1.06	0.16	----
32303	1/2" x 1"	2.31	0.99	1.37	0.33	----
32304	5/8" x 1/4"	1.67	0.92	0.68	0.06	----
32019 *	5/8" x 3/8"	1.76	0.97	0.68	0.08	----
32020 *	5/8" x 1/2"	1.87	0.96	0.87	0.11	----
32021 *	5/8" x 3/4"	1.87	0.96	1.06	0.14	----
32305	5/8" x 1"	2.31	0.96	1.37	0.36	----
32915	3/4" x 1/4"	1.64	0.87	0.81	0.11	----
32306	3/4" x 3/8"	1.65	0.87	0.81	0.12	----
32022 *	3/4" x 1/2"	1.87	0.96	0.87	0.14	----
32023 *	3/4" x 3/4"	1.87	0.96	1.06	0.15	----
32316	3/4" x 1"	2.55	1.15	1.37	0.38	----
32307	1" x 1/2"	1.80	0.87	1.06	0.18	----
32024 *	1" x 3/4"	2.19	1.19	1.06	0.32	----
32025 *	1" x 1"	2.48	1.19	1.37	0.39	----
32029	1-1/4" x 3/4"	2.37	1.19	1.37	0.35	----
32028	1-1/4" x 1"	2.55	1.19	1.37	0.46	----

* See page 27 for stainless steel.

See page 28 for beverage #303 stainless fittings

4244 PGH 101 102 201A 125HBL 105B-1 KF-PS MPB

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HOSE BARB
BRASS FITTINGS

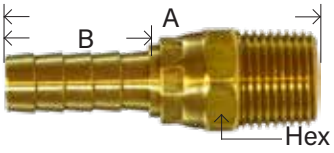
BRASS RIGID MALE BSPT BARB ADAPTER



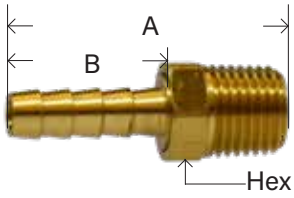
29SWV
29MS

PART #	HOSE I.D. X MALE BSPT	
32450	1/4" x 1/8"	----
32451	1/4" x 1/4"	----
32452	3/8" x 1/4"	----
32453	3/8" x 3/8"	----
32454	3/8" x 1/2"	----
32455	1/2" x 3/8"	----
32456	1/2" x 1/2"	----
32457	3/4" x 3/4"	----
32458	1" x 1"	----

SWIVEL MALE ADAPTER



Rotation 360°

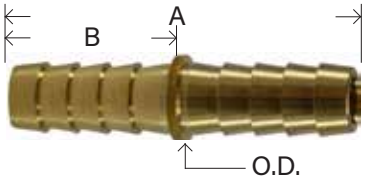


PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32329	3/16" x 1/8"	2.00	0.78	0.56	0.06	----
32331	3/16" x 1/4"	1.95	0.78	0.56	0.06	----
32332	1/4" x 1/8"	2.19	0.97	0.56	0.06	----
32349	1/4" x 1/4"	2.12	0.97	0.56	0.06	----
32351	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
32201	3/8" x 1/4"	2.12	0.97	0.56	0.07	----
32360	3/8" x 3/8"	2.12	0.97	0.69	0.08	----
32355	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
32356	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
32357	3/4" x 3/4"	2.33	0.97	1.06	0.20	----
32386	1" x 1"	2.88	1.19	1.38	0.40	----

SMS 103

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32200	1/4" x 1/4"	1.65	.89	0.56	0.04	----
32202	3/8" x 3/8"	1.75	1.00	0.68	0.08	----

MENDER/ SPLICER



29S
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	
32091 *	1/8"	0.98	0.45	0.31	0.01	----
32092	3/16"	1.62	0.77	0.36	0.02	----
32093 *	1/4"	2.00	0.96	0.37	0.02	----
32079 *	1/4" x 1/8"	1.50	0.97	0.37	0.02	----
32094 *	5/16"	2.00	0.96	0.39	0.02	----
32090 *	5/16" x 1/4"	2.00	0.97	0.50	0.03	----
32095 *	3/8"	2.00	0.97	0.51	0.04	----
32960	3/8 x 1/8	1.58	1.00	0.50	0.03	----
32961	3/8 x 3/16	1.75	1.00	0.50	0.03	----
32080 **	3/8" x 1/4"	2.06	0.97	0.56	0.03	----
32375 *	3/8" x 5/16"	2.00	0.97	0.50	0.03	----
32096 *	1/2"	2.00	0.96	0.62	0.06	----
32087 *	1/2" x 3/8"	2.06	0.97	0.71	0.06	----
32097	5/8"	2.05	0.96	0.75	0.08	----
32088	5/8" x 3/8"	2.06	0.97	0.75	0.06	----
32376	5/8" x 1/2"	2.06	0.97	0.75	0.07	----
32098 *	3/4"	2.50	1.15	0.87	0.10	----
32089	3/4" x 1/2"	2.28	1.19	0.87	0.10	----
32379	3/4" x 5/8"	2.02	0.96	0.87	0.10	----
32380	1" x 3/4"	2.58	1.19	1.12	0.18	----
32099	1"	3.00	1.44	1.12	0.23	----

MSB 122HBL HM 129 178 73 108

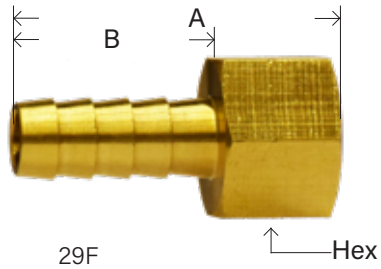


* Add SS to the end of the part number for Stainless.
** See hose splicers on page 27 for Stainless.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

RIGID FEMALE ADAPTER



29F
129F

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32050	1/8″ x 1/8″	0.96	0.46	0.50	0.02	----
32317	1/8″ x 1/4″	1.15	0.46	0.62	0.04	----
32051	3/16″ x 1/8″	1.10	0.68	0.50	0.02	----
32062	3/16″ x 1/4″	1.44	0.75	0.62	0.04	----
32052	1/4″ x 1/8″	1.35	0.93	0.50	0.02	----
32053	1/4″ x 1/4″	1.60	0.97	0.62	0.06	----
32054	1/4″ x 3/8″	1.65	1.03	0.75	0.04	----
32441	1/4" x 1/2"	1.66	0.97	0.93	0.08	----
32055	5/16″ x 1/8″	1.47	0.97	0.56	0.04	----
32056	5/16″ x 1/4″	1.66	0.97	0.62	0.04	----
32318	5/16″ x 3/8″	1.66	0.97	0.75	0.06	----
32320	5/16″ x 1/2″	1.67	0.96	0.93	0.08	----
32057	3/8″ x 1/8″	1.47	0.97	0.56	0.04	----
32058	3/8″ x 1/4″	1.61	0.97	0.62	0.06	----
32059	3/8″ x 3/8″	1.63	1.00	0.81	0.08	----
32063	3/8″ x 1/2″	1.72	0.94	0.93	0.12	----
32442	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
32449	1/2" x 1/8"	1.51	0.98	0.56	0.06	----
32064	1/2″ x 1/4″	1.66	0.96	0.62	0.08	----
32060	1/2″ x 3/8″	1.66	0.97	0.75	0.08	----
32061	1/2″ x 1/2″	1.76	0.96	0.93	0.12	----
32443	1/2" x 3/4"	1.97	0.97	1.18	0.26	----
32444	5/8" x 3/8"	1.66	0.97	0.75	0.08	----
32445	5/8" x 1/2"	1.66	0.97	0.93	0.10	----
32446	5/8" x 3/4"	1.97	0.97	1.18	0.21	----
32447	3/4" x 1/2"	1.88	1.19	0.93	0.13	----
32065	3/4″ x 3/4″	2.19	1.21	1.18	0.22	----
32049	1″ x 3/4″	2.19	1.19	1.18	0.26	----
32321	1" x 1"	2.32	1.19	1.44	0.35	----
32448	1-1/4" x 1"	2.32	1.19	1.43	0.44	----

209A 128 29A 29F 126HB 126 FPB 105B-2 KF-RS 104 144

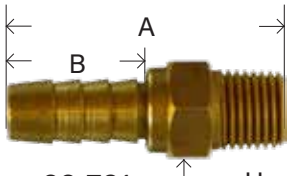
SWIVEL FEMALE ADAPTER NPTF



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32470	1/4" x 1/4"	1.80	0.97	0.62	0.06	----
32472	3/8" x 1/4"	1.80	0.97	0.62	0.06	----
32473	3/8" x 3/8"	1.82	0.97	0.75	0.09	----
32475	1/2" x 3/8"	1.82	0.97	0.75	0.09	----
32476	1/2" x 1/2"	1.86	0.97	0.93	0.14	----

HIGH VOLUME MALE SWIVEL

▪ 300 PSI ▪ Nitrile Buna (NBR) O-Ring



32-781



28-415 & 28-417

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
32781	3/8″ x 1/4″	1.83	0.87	0.62	0.07	----
28415	1/4" x 1/4"	1.30	0.94	0.81	0.14	----
28417	3/8" x 1/4"					

4065

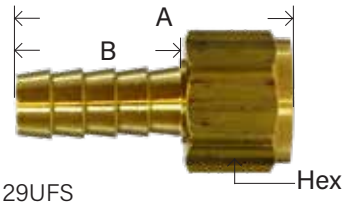
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

SWIVEL FEMALE ADAPTER - WITH GASKET

- NPSM Thread

National Pipe Straight Gasket Seal Swivel



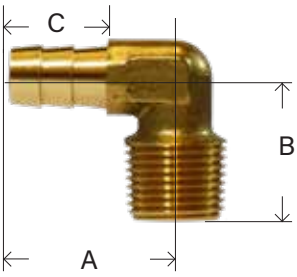
29UFS
129UFS

- Not recommend for water due to fiber gasket - for air service only.

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	
32131	1/8" x 1/8"	0.90	0.46	0.50	0.02	----
32132	3/16" x 1/8"	1.19	0.75	0.50	0.03	----
32133	3/16" x 1/4"	1.28	0.75	0.62	0.04	----
32120	1/4" x 1/8"	1.41	0.97	0.50	0.02	----
32121	1/4" x 1/4"	1.50	0.97	0.62	0.02	----
32129	1/4" x 3/8"	1.63	0.97	0.75	0.04	----
32130	5/16" x 1/4"	1.50	0.97	0.62	0.04	----
32122	3/8" x 1/4"	1.54	1.00	0.62	0.06	----
32123	3/8" x 3/8"	1.60	0.97	0.75	0.06	----
32354	3/8" x 1/2"	1.66	0.97	0.93	0.10	----
32124	1/2" x 3/8"	1.60	0.97	0.75	0.08	----
32125	1/2" x 1/2"	1.66	0.97	0.93	0.12	----
32117	1/2" x 3/4"	1.82	1.19	1.18	0.16	----
32118	5/8" x 3/4"	1.82	1.19	1.18	0.18	----
32119	3/4" x 3/4"	1.82	1.19	1.18	0.14	----

130 126 29FSG KF-RN NPSM Gasket Seat

FORGED HOSE BARB 90° ELBOW



29E
129E



32-330
**Square Barstock Body

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	
32308	3/16" x 1/8"	0.95	0.70	0.66	0.37	0.02	----
32391	3/16" x 1/4"	1.00	0.84	0.63	0.46	0.10	----
32038 *	1/4" x 1/8"	1.01	0.81	0.71	0.47	0.06	----
32039 *	1/4" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32309 **	1/4" x 3/8"	1.08	0.97	0.73	0.69	0.12	----
32036	5/16" x 1/8"	1.01	0.81	0.63	0.47	0.04	----
32040	5/16" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32310	5/16" x 3/8"	1.06	0.94	0.63	0.50	0.06	----
32046 *	3/8" x 1/8"	1.01	0.81	0.63	0.47	0.06	----
32041 *	3/8" x 1/4"	1.02	0.88	0.65	0.47	0.06	----
32042 *	3/8" x 3/8"	1.09	0.93	0.68	0.50	0.08	----
32047 *	3/8" x 1/2"	1.11	1.09	0.63	0.59	0.10	----
32048	1/2" x 1/4"	1.06	1.00	0.68	0.59	0.10	----
32043 *	1/2" x 3/8"	1.06	1.09	0.69	0.59	0.10	----
32311 *	1/2" x 1/2"	1.31	1.19	0.87	0.56	0.12	----
32044	5/8" x 3/8"	1.12	1.06	0.61	0.56	0.12	----
32045	5/8" x 1/2"	1.12	1.12	0.68	0.63	0.14	----
32312	5/8" x 3/4"	1.46	1.26	0.93	1.06	0.32	----
32313	3/4" x 1/2"	1.31	1.28	0.87	0.85	0.22	----
32314 *	3/4" x 3/4"	1.46	1.26	0.91	1.06	0.32	----
32330 **	3/4" x 1"	1.57	1.64	0.90	1.34	0.64	----
32315	1" x 3/4"	1.60	1.40	0.95	1.06	0.32	----
32319	1" x 1"	1.69	1.64	0.98	1.30	0.43	----

129 HBE1 KF-PS90 HE-1 29E 146

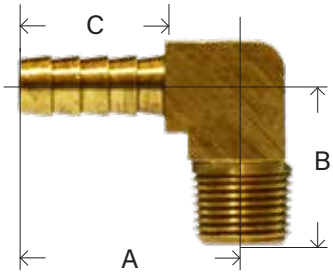


* Add SS to the end of the part number for Stainless. See page 27.

Dimension data can change without notice. Please check when dimensions are critical.

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BARSTOCK HOSE BARB 90° ELBOW

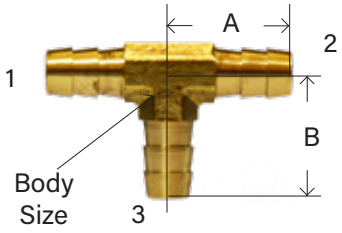


29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	
32038B	1/4″ X 1/8″	1.00	0.75	0.75	0.50	0.02	----
32039B	1/4″ X 1/4″	1.02	0.91	0.74	0.56	0.04	----
32309B	1/4" X 3/8"	1.19	0.84	0.76	0.58	0.09	----
32036B	5/16" X 1/8"	1.06	0.66	0.76	0.44	0.04	----
32040B	5/16" X 1/4"	1.12	0.84	0.76	0.58	0.07	----
32310B	5/16" X 3/8"	1.19	0.84	0.76	0.72	0.09	----
32046B	3/8" X 1/8"	1.32	0.94	0.97	0.58	0.06	----
32041B	3/8″ X 1/4″	1.32	0.89	0.97	0.58	0.08	----
32042B	3/8″ X 3/8″	1.50	1.06	0.97	0.75	0.14	----
32047B	3/8" X 1/2"	1.52	1.25	0.97	0.90	0.26	----
32048B	1/2" X 1/4"	1.53	1.06	0.97	0.72	0.12	----
32043B	1/2″ X 3/8″	1.53	1.07	0.97	0.72	0.16	----
32311B	1/2" X 1/2"	1.53	1.25	0.97	0.90	0.26	----
32314B	3/4" X 3/4"	1.33	1.27	0.97	1.10	0.32	----

129HB

HOSE BARB TEES





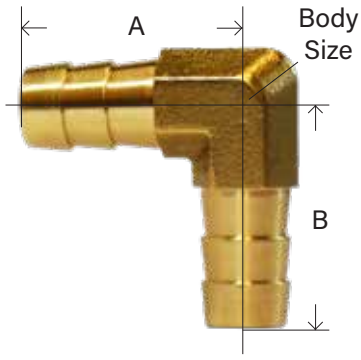
29T
129T

32-128

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
32367 *	1/8″	0.84	0.83	0.25	0.02	----
32368	3/16"	1.02	1.02	0.37	0.03	----
32365 **	1/4″	1.00	1.00	0.44	0.06	----
32350 *	(1/4") x 1/8"	0.94	0.94	0.44	0.04	----
32366	5/16″	1.00	1.00	0.44	0.06	----
32126 **	3/8″	1.01	1.01	0.43	0.06	----
32400 *	1/2″	1.02	1.00	0.43	0.08	----
32352 *	(1/2") x 3/8"	1.26	1.26	0.43	0.10	----
32361	5/8"	1.26	1.26	0.75	0.16	----
32363	3/4"	1.45	1.45	0.90	0.18	----
32353	(3/4") x 1/2"	1.41	1.41	0.88	0.23	----
32128 *	3/8″HB x 1/4″ MIP	1.00	0.94	0.43	0.06	----

* Add SS to the end of the part number for Stainless.
** See page 29 for stainless steel.

90° HOSE BARB ELBOW



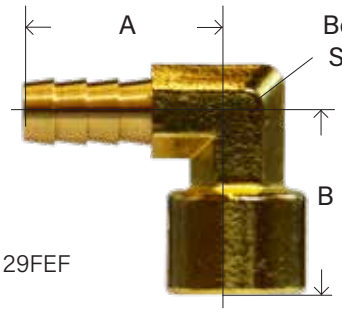
PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.	
32429	1/8" x 1/8"	0.55	0.55	0.37	0.03	----
32433	3/16" x 3/16"	0.90	0.90	0.37	0.03	----
32412	1/4″ x 1/8″	1.02	1.02	0.44	0.04	----
32413 *	1/4″ x 1/4″	1.01	1.01	0.44	0.04	----
32425	5/16" x 5/16"	1.15	1.15	0.48	0.05	----
32414	3/8″ x 1/8″	1.01	1.01	0.44	0.04	
32415	3/8″ x 1/4″	1.00	1.00	0.44	0.04	
32416 *	3/8″ x 3/8″	1.02	1.02	0.44	0.04	----
32417	3/8″ x 1/2″	1.24	1.10	0.50	0.06	
32418	1/2″ x 1/4″	1.24	1.08	0.50	0.06	
32419	1/2″ x 3/8″	1.22	1.09	0.50	0.06	
32420 *	1/2″ x 1/2″	1.24	1.24	0.50	0.06	----
32434	5/8" x 5/8"	1.20	1.20	0.75	0.16	----
32435	3/4" x 1/2"	1.41	1.41	0.88	0.21	----
32436	3/4" x 3/4"	1.41	1.41	0.88	0.21	----

* Add SS to the end of the part number for Stainless.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

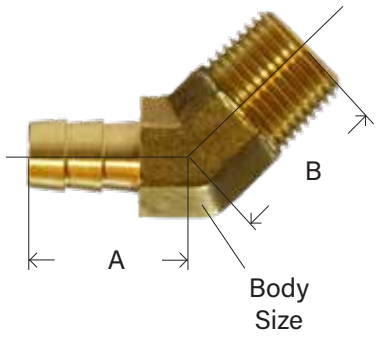
90° FEMALE HOSE BARB ELBOW



29FEF

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
32401	1/4″ x 1/8″	1.01	0.82	0.47	0.06	----
32402	1/4″ x 1/4″	1.13	0.91	0.56	0.10	----
32403	3/8″ x 1/8″	1.01	0.82	0.47	0.06	----
32404	3/8″ x 1/4″	1.15	0.91	0.56	0.10	----
32405	3/8″ x 3/8″	1.15	1.11	0.68	0.14	----
32406	3/8″ x 1/2″	1.26	1.39	0.75	0.20	----
32407	1/2″ x 1/4″	1.26	0.91	0.56	0.10	----
32410	1/2″ x 3/8″	1.24	1.11	0.68	0.14	----
32411	1/2″ x 1/2″	1.37	1.39	0.75	0.20	----
32409	3/4" x 3/4"	1.52	1.75	0.81	0.50	----

45° ELBOW



294S
1294S

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
32110	1/4″ x 1/8″	0.91	0.62	0.53	0.04	----
32109*	1/4″ x 1/4″	1.00	0.62	0.57	0.06	----
32111	3/8″ x 1/8″	0.83	0.66	0.53	0.04	----
32112	3/8″ x 1/4″	0.82	0.84	0.53	0.06	----
32113	3/8″ x 3/8″	0.93	0.87	0.59	0.08	----
32346	1/2″ x 1/4″	1.00	0.84	0.59	0.08	----
32114	1/2″ x 3/8″	1.00	0.88	0.59	0.08	----
32116	1/2" x 1/2"	1.15	0.94	0.59	0.12	----
32115	5/8″ x 3/8″	0.97	0.88	0.59	0.10	----
32345	3/4" x 1/2"	1.15	0.94	0.81	0.13	----

* Barstock

140 HE145 139HB KF-PS45 13945

CROSSES



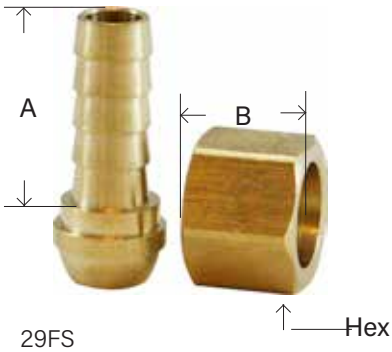
PART #	HOSE ID	
32608	1/4	----
32609	5/16	----
32610	3/8	----

Hose Wyes available with extended lead time.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

BALL END SWIVEL
NPSM - Ball seat type

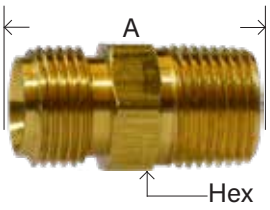


29FS
129FS

PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.	
32066	1/8" x 1/8"	0.46	0.44	0.50	0.03	----
32067	3/16" x 1/8"	0.75	0.44	0.50	0.03	----
32068	3/16" x 1/4"	0.75	0.52	0.62	0.04	----
32962	3/16" x 3/8"	0.75	0.63	0.75	0.05	----
32069	1/4" x 1/8"	0.97	0.44	0.50	0.04	----
32070	1/4" x 1/4"	0.97	0.53	0.62	0.06	----
32078	1/4" x 3/8"	0.97	0.63	0.75	0.06	----
32071	5/16" x 1/4"	0.97	0.52	0.62	0.05	----
32389	5/16" x 3/8"	0.97	0.63	0.75	0.07	----
32072	3/8" x 1/4"	0.97	0.53	0.62	0.06	----
32073	3/8" x 3/8"	0.97	0.59	0.75	0.08	----
32074	3/8" x 1/2"	0.97	0.69	0.94	0.14	----
32075	1/2" x 3/8"	0.97	0.59	0.75	0.08	----
32076	1/2" x 1/2"	0.97	0.69	0.94	0.10	----
32077	3/4" x 3/4"	0.97	0.70	1.12	0.14	----

128HBLSV 29FS 209AS 124 131

BALLSEAT MALE ADAPTER
Beveled seat

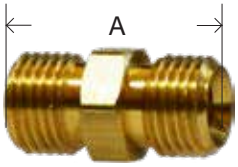


30° Seat

PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.	
32359	1/8" x 1/8"	0.94	0.43	0.03	----
32034	1/4" x 1/8"	1.06	0.56	0.04	----
32030	1/4" x 1/4"	1.25	0.56	0.06	----
32362	3/8" x 1/4"	1.28	0.68	0.08	----
32031	3/8" x 3/8"	1.30	0.68	0.08	----
32392	3/8" x 1/2"	1.47	0.88	0.13	----
32364	1/2" x 3/8"	1.35	0.87	0.10	----
32032	1/2" x 1/2"	1.53	0.87	0.14	----
32033	3/4" x 3/4"	1.53	1.06	0.20	----

172 134 127HB 122AS

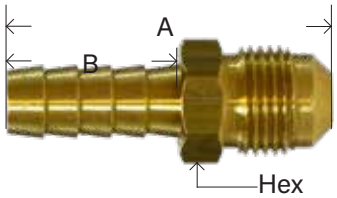
BALLSEAT UNION



30° Seat

PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.	
32460	1/8"	0.79	0.43	0.02	----
32461	1/4"	1.09	0.56	0.04	----
32462	3/8"	1.19	0.68	0.07	----
32463	1/2"	1.31	0.87	0.10	----

45° FLARE ADAPTER



29SAE
129SAE

PART #	HOSE I.D. X 45° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	
32322	3/16" x 1/4"	7/16-20	1.5	0.75	0.43	0.03	----
32081 *	1/4" x 1/4"	7/16-20	1.72	0.97	0.43	0.03	----
32082 *	1/4" x 3/8"	5/8-18	1.82	0.97	0.62	0.07	----
32083	5/16" x 5/16"	1/2-20	1.75	0.97	0.50	0.08	----
32084 *	3/8" x 3/8"	5/8-18	1.82	0.97	0.62	0.08	----
32085	3/8" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32086	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----

* Add SS to the end of the part number for Stainless.

142 201BF KF-MS KDS

COMPRESSION ADAPTER - BARB X MALE COMPRESSION

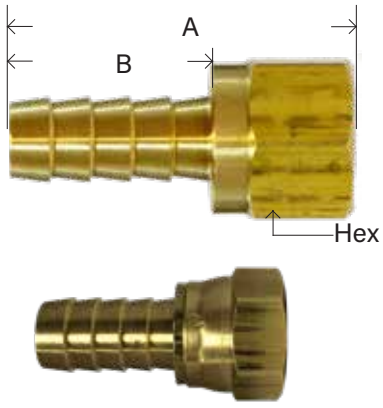


PART #	SIZE	
18534	1/4" x 1/4"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB
BRASS FITTINGS

DUAL 45°/ 37° FLARE SWIVEL



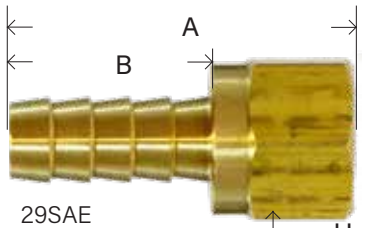
CRIMP STYLE

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.	
32107	3/16″ x 1/4″	7/16-20	1.34	0.75	0.56	0.04	----
32107C**	3/16 X 1/4	7/16-20	1.42	0.78	0.56	0.04	----
32337	1/4″ x 1/4″	7/16-20	1.56	0.97	0.56	0.04	----
32337C**	1/4" X 1/4"	7/16-20	1.60	0.97	0.56	0.04	----
32102	1/4″ x 5/16″	1/2-20	1.61	0.97	0.62	0.06	----
32339	5/16″ x 5/16″	1/2-20	1.60	0.97	0.62	0.06	----
32340	3/8″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	----
32341	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.10	----
32341C**	1/2" X 1/2"	3/4-16	1.75	0.97	0.87	0.09	----
32342	1/2″ x 5/8″	7/8-14	1.76	0.97	1.00	0.12	----
32394**	5/8" x 5/8"	7/8-14	1.83	0.97	1.00	0.14	----

** Swivel crimp style

KDS

FEMALE 45° FLARE SWIVEL



29SAE
129SAE



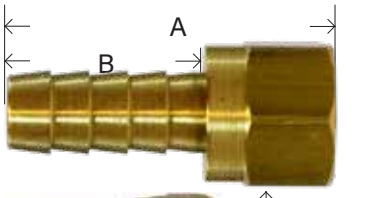
CRIMP STYLE

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
32326	3/16″ x 3/16″	3/8-24	1.19	0.75	0.43	0.04	----
30295**	3/16" x 3/8"	5/8-18	1.82	0.90	0.75	0.04	----
32101	1/4″ x 1/4″	7/16-20	1.57	0.97	0.56	0.04	----
32103	1/4″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	----
32104	5/16″ x 5/16″	1/2-20	1.61	0.97	0.62	0.05	----
32327	5/16″ x 3/8″	5/8-18	1.67	0.97	0.75	0.08	----
32105	3/8″ x 3/8″	5/8-18	1.64	0.97	0.75	0.08	----
32105C**	3/8" x 3/8"	5/8-18	1.71	0.97	0.75	0.07	----
32106	3/8″ x 1/2″	3/4-16	1.81	0.97	0.87	0.10	----
32100	1/2″ x 1/2″	3/4-16	1.68	0.97	0.87	0.12	----
32328	3/4" x 3/4"	1-1/16-14	2.00	0.97	1.25	0.20	----

29SAE 209ASF 146HBLFSV KF-NS 128 FSS 146 144

** Swivel crimp style (crimped on the outside of fitting)

FEMALE 37° J.I.C. FLARE SWIVEL



CRIMP STYLE

STAINLESS STEEL



32338SS

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	
32334	1/4″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	----
32335	5/16″ x 3/8″	9/16-18	1.60	0.97	0.68	0.06	----
32336	3/8″ x 3/8″	9/16-18	1.60	0.97	0.68	0.10	----
32336C**	3/8" X 3/8"	9/16-18	1.66	0.97	0.68	0.06	----
32338*	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.20	----
32338SS	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.24	----
32338C	3/4" x 3/4"	1-1/16-12	2.13	1.19	1.25	0.20	----
32397**	1" x 1"	1-5/16-12	2.31	1.19	1.50	0.33	----

KJS

*Available in swivel crimp style - add a "C" at the end of the part # (100 piece minimum)

** Swivel crimp style

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

REUSABLE
BRASS FITTINGS

REUSABLE MALE FITTINGS



29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF	
32727	1/4"	1/2"	1/4"	----
32728	1/4"	9/16"	1/4"	----
32726	1/4"	5/8"	1/4"	----
32741	5/16"	5/8"	1/4"	----
32742	3/8"	5/8"	1/4"	----
32744	3/8"	11/16"	1/4"	----
32725	3/8"	3/4"	1/4"	----
32747	3/8"	5/8"	3/8"	----
32750	3/8"	11/16"	3/8"	----
32746	1/2"	7/8"	1/2"	----

REUSABLE FEMALE SWIVEL STEMS



PART #	HOSE ID	FEMALE NPSM	
32770	1/4"	1/4"-18	----
32771	3/8"	3/8"-18	----

REUSABLE FEMALE SWIV-



29RU16

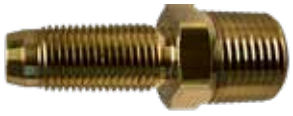
PART #	HOSE ID	HOSE OD	FEMALE NPSM	
32772	1/4"	1/2"	1/4"	----
32773	3/8"	5/8"	3/8"	----
32774	3/8"	11/16"	3/8"	----
32775	1/2"	7/8"	1/2"	----

REUSABLE FERRULES



PART #	HOSE ID	HOSE OD	
32749	1/4"	1/2"	----
32751	1/4"	9/16"	----
32752	1/4"	5/8"	----
32753	3/8"	5/8"	----
32754	3/8"	11/16"	----
32755	3/8"	3/4"	----
32756	1/2"	7/8"	----

REUSABLE MALE STEMS



PART #	HOSE ID	MALE NPT THREAD	
32758	1/4"	1/4"	----
32759	3/8"	1/4"	----
32760	3/8"	3/8"	----
32761	1/2"	1/2"	----

obstacles are things a person sees when he takes his eyes off his goal.

– E. Joseph Cossman

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HOSE BARB
BRASS FITTINGS

BRASS FUEL HOSE BARBS

Typical Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.
Advantages: Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

MALE CONNECTOR
HOSE BARB X MALE PIPE



159
29SB

PART #	HOSE ID	MIP	IND #	
38800	3/16	1/8	1541	----
38802	1/4	1/8	1537	----
32377	1/4	1/4	1581	----
38806	5/16	1/8	1551	----
38808	5/16	1/4	1555	----
38810	3/8	1/8	1565	----
32381	3/8	1/4	1564	----
32382	3/8	3/8	1566	----
32383	1/2	3/8		----
32384	1/2	1/2		----
32385	5/8	1/2	1431	----
32387	3/4	1/2	1430	----
32388	3/4	3/4		----

68HB

BUBBLE BARB MALE ADAPTER
BUBBLE X MIP



PART #	BUBBLE X MIP	
32176	3/8 x 3/8	----
32177	1/2 x 1/4	----
32178	1/2 x 3/8	----
32179	1/2 x 1/2	----
32182	5/8 x 3/8	----
32183	5/8 x 1/2	----
32184	3/4 x 1/2	----
32180	3/4 x 3/4	----
32185	1 x 3/4	----
32181	1 x 1	----

INVERTED FLARE MALE CONNECTOR
HOSE BARB X INVERTED FLARE

159IN
291FSB



PART #	HOSE ID	INV. FLARE	IND #	
38828	5/16	1/4	1598	----
38830	5/16	5/16	1560	----
38832	5/16	3/8	1561	----
38834	3/8	5/16	1568	----
38836	3/8	3/8	1570	----

269HB

90° MALE ELBOW
HOSE BARB X MALE PIPE

29ESB



PART #	HOSE ID	MIP	IND #	
38860	1/4	1/8	1582	----
38862	5/16	1/8	1556	----
38864	5/16	1/4	1557	----
38866	3/8	1/8	1572	----
38868	3/8	1/4	1571	----

BUBBLE BARB

159E



PART #	HOSE ID	MIP	
32186	3/8	3/8	----
32194	1/2	1/4	----
32187	1/2	3/8	----
32191	1/2	1/2	----
32195	5/8	1/4	----
32188	5/8	3/8	----
32189	5/8	1/2	----
32190	3/4	1/2	----
32192	3/4	3/4	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WELDED HOSE FITTINGS
BRASS FITTINGS

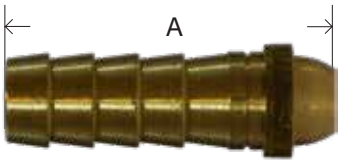
INVERTED FLARE MALE SWIVEL 90° ELBOW
HOSE BARB X TUBE O.D.


159ELS
291MES

Part #	Hose ID	Inv. Flare	Ind #	
38873	5/16	5/16	1405	----
38874	3/8	3/8	1407	----

WELDED HOSE FITTINGS

STEM ONLY - WELDING HOSE CONNECTOR

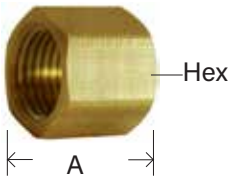


PART #	HOSE I.D.	A	APPROX. WT. LBS.	
30410	3/16″	1.43	0.02	----
30411	1/4″	1.43	0.02	----
30413	3/8″	1.43	0.04	----

Assemble with nuts below.

201RWA WRS WLS

RIGHT HAND 9/16 - 18 FOR OXYGEN LINE - WELDING HOSE NUT

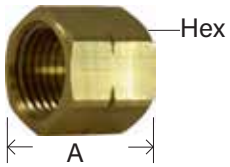


PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30420	R.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

201RWA WRS KF-PE 152

LEFT HAND 9/16 - 18 FOR ACETYLENE LINE - WELDING HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30421	L.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

209LWA WLS 154 KF-RE

RIGHT HAND 9/16 - 18 #122RWA - WELDING HOSE CONNECTOR



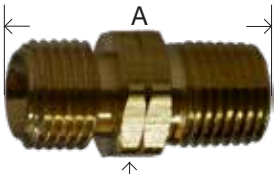
651
WH42R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30401	1/4″-18	1.30	0.62	0.06	----
32437	3/8"-18	1.30	0.68	0.09	----
32438*	9/16"-18	1.25	0.68	0.07	----

* Right UNF thread

156

LEFT HAND 9/16 - 18 #122LWA - WELDING HOSE CONNECTOR



652
WH42L

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30406	1/4″-18	1.30	0.62	0.06	----
32439	3/8"-18	1.30	0.68	0.09	----
32440*	9/16"-18	1.25	0.68	0.07	----

* Left UNF thread

158

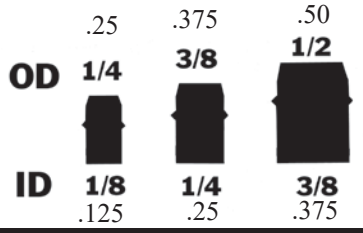
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARBED FOR PLASTIC TUBING

BRASS FITTINGS

BRASS BARBS FOR POLYETHYLENE TUBING

- Quick connecting fittings that do not require tube preparations for hand assembly. Inexpensive with excellent resistance to vibration.



UNION

29MBS



TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE	
21003	1/4(1/8) x 1/4(1/8)	----
21007	3/8(1/4) x 1/4(1/8)	----
21009	3/8(1/4) x 3/8(1/4)	----

MALE ADAPTER

29MB



TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE	
21021	1/4(1/8) x 1/16	----
21023	1/4(1/8) x 1/8	----
21025	1/4(1/8) x 1/4	----
21027	3/8(1/4) x 1/8	----

1068 968 688

FEMALE ADAPTER

29FMB



TUBE O.D. (TUBE I.D.) X FEMALE PIPE

PART #	SIZE	
21043	1/4(1/8) x 1/8	----
21046	3/8(1/4) x 1/4	----
21049	1/2(3/8) x 3/8	----

1066 966 26 668

BULKHEAD UNION



29MBHS

TUBE O.D. (TUBE I.D.)

PART #	SIZE	
21082	1/4(1/8)	----
21083	3/8(1/4)	----
21084	1/2(3/8)	----

1074

UNION ELBOW

1065
965



29BEMB

TUBE O.D (I.D.)

PART #	SIZE	
21095	1/4(1/8)	----
21097	3/8(1/4)	----
21099	1/2(3/8)	----

MALE 90° ELBOW



29MBE

TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	
21109	1/8" x 1/4-28"	----
21111	1/4(1/8) x 1/16	----
21113	1/4(1/8) x 1/8	----
21115	1/4(1/8) x 1/4	----
21117	3/8(1/4) x 1/8	----
21119	3/8(1/4) x 1/4	----
21121	1/2(3/8) x 3/8	----

1069 969 229

FEMALE 90° ELBOW

29MBFE



TUBE O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	
21133	1/4(1/8) x 1/8	----

1070 970 230

UNION TEE

29MBT



O.D. (I.D.) X O.D. (I.D.) X O.D. (I.D.)

PART #	SIZE	
21151	1/4(1/8)	----
21153	3/8(1/4)X 3/8(1/4) X1/4(1/8)	----
21155	3/8(1/4)	----
21159	1/2(3/8)X1/2(3/8) X3/8(1/4)	----
21161	1/2(3/8)	----

1064 964 224

MALE BRANCH TEE

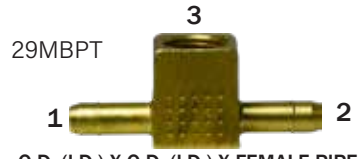


O.D. (I.D.) X O.D. (I.D.) X MALE PIPE

PART #	SIZE	
21193	1/4(1/8) x 1/4(1/8) x 1/8	----
21195	3/8(1/4) x 3/8(1/4) x 1/8	----

1072 972 232

FEMALE BRANCH TEE



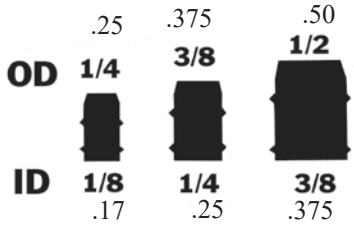
O.D. (I.D.) X O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	
21207	1/4(1/8) x 1/4(1/8) x 1/8	----

1077 978

TWO BARB FITTINGS

More Sizes Available - Please Ask!



MALE ADAPTER PIPE



TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	
32150	1/4(1/8) x 1/8	----
32151	1/4(1/8) x 1/4	----
32153	3/8(1/4) x 1/4	----

28

UNION TEE



PART #	TUBE O.D. (I.D.)	
32159	1/4(1/8 ID)	----
32160	3/8(1/4 ID)	----

90° ELBOW



PART #	TUBE O.D. (I.D.)	
32170	1/4(1/8 ID)	----
32171	3/8(1/4 ID)	----

225

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BARSTOCK/ CAST SS HOSE BARB

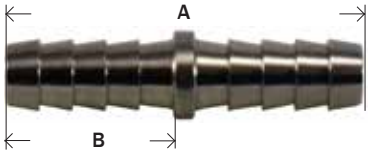
BRASS FITTINGS

316 STAINLESS STEEL MACHINED RIGID MALE ADAPTER



PART #	HOSE I.D. X NPT	
32001SS	1/8" x 1/8"	----
32002SS	3/16" x 1/8"	----
32003SS	3/16" x 1/4"	----
32004SS	1/4" x 1/8"	----
32005SS	1/4" x 1/4"	----
32006SS	1/4" x 3/8"	----
32008SS	5/16" x 1/8"	----
32009SS	5/16" x 1/4"	----
32010SS	5/16" x 3/8"	----
32011SS	3/8" x 1/8"	----
32012SS	3/8" x 1/4"	----
32013SS	3/8" x 3/8"	----
32014SS	3/8" x 1/2"	----
32015SS	1/2" x 1/4"	----
32016SS	1/2" x 3/8"	----
32017SS	1/2" x 1/2"	----
32018SS	1/2" x 3/4"	----
32019SS	5/8" x 3/8"	----
32020SS	5/8" x 1/2"	----
32021SS	5/8" x 3/4"	----
32022SS	3/4" x 1/2"	----
32023SS	3/4" x 3/4"	----
32024SS	1" x 3/4"	----

316 STAINLESS STEEL SPLICER



PART #	HOSE I.D. X HOSE I.D.	A	B	
32091SS	1/8"			----
32093SS	1/4"	2.03	0.97	----
32094SS	5/16"			----
32095SS	3/8"	2.06	0.97	----
32096SS	1/2"	2.06	0.97	----
32098SS	3/4"	2.50	1.19	----

316 STAINLESS STEEL BARB ELBOW



PART #	HOSE I.D. X NPT	
32038SS	1/4 x 1/8	----
32039SS	1/4 x 1/4	----
32041SS	3/8 x 1/4	----
32042SS	3/8 x 3/8	----
32043SS	1/2" x 3/8"	----
32311SS	1/2 x 1/2	----
32314SS	3/4" x 3/4"	----

304 STAINLESS STEEL HOSE NIPPLES



▪ Cast

PART #	HOSE I.D. X MALE PIPE	
73951	1/4"	----
73952	3/8"	----
73953	1/2"	----
73954	3/4"	----
73955	1"	----
73956	1-1/4"	----
73957	1-1/2"	----
73958	2"	----
73959	2-1/2"	----
73960	3"	----

304 STAINLESS STEEL REDUCING HOSE NIPPLES



▪ Cast

PART #	HOSE I.D. X MALE PIPE	
73970	1/4" X 1/8"	----
73971	3/8" X 1/4"	----
73972	1/2" X 3/8"	----
73973	1/2" X 1/4"	----
73974	3/4" X 1/2"	----
73975	1" X 3/4"	----
73976	1" X 1/2"	----
73977	1-1/4" X 1"	----
73979	1-1/2" X 1-1/4"	----
73980	1-1/2" X 1"	----
73981	2" X 1-1/2"	----
73982	2" X 1-1/4"	----

316 STAINLESS STEEL HOSE NIPPLES



▪ Cast

PART #	HOSE I.D. X MALE PIPE	
973951	1/4"	----
973952	3/8"	----
973953	1/2"	----
973954	3/4"	----
973955	1"	----
973956	1-1/4"	----
973957	1-1/2"	----
973958	2"	----
973959	2-1/2"	----
973990	3"	----
973991	4"	----



▪ See King nipples on page 312

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BEVERAGE FITTINGS
BRASS FITTINGS

BARB TO MALE PIPE ADAPTER



PART #	SIZE	
34587	1/4" x 1/8"	----
34588	1/4" x 1/4"	----
34589	1/4" x 3/8"	----
34590	3/8" x 1/8"	----
34591	3/8" x 1/4"	----
34592	3/8" x 3/8"	----
34595	3/8" x 1/2"	----
34597	1/2" x 3/4"	----

BARB TO MALE FLARE ADAPTER



HOSE ID X 45° FLARE

PART #	SIZE	
34579	1/4" x 1/4"	----
34586	1/4" x 5/16"	----
34584	1/4" x 3/8"	----
34580	1/4" x 1/2-16"	----
34583	3/8" x 1/4"	----
34585	3/8" x 3/8"	----
34581	3/8" x 1/2-16"	----

FEMALE FLARE SWIVEL SETS



PART #	SIZE	
34501	1/4" x 1/4"	----
34502	5/16" x 1/4"	----
34504	3/8" x 3/8"	----

ONE PIECE SWIVEL BARB X FE.



PART #	SIZE	
34510	3/8" x 1/4"	----

HOSE SPLICER (STRAIGHT)



ID HOSE

PART #	SIZE	
34532	3/16"	----
34533	1/4"	----
34534	1/4" x 3/16"	----
34536	5/16"	----
34537	5/16" x 1/4"	----
34535	3/8"	----
34538	3/8" x 3/16"	----
34543	3/8" x 1/4"	----
34539	3/8" x 5/16"	----
34540	1/2" x 3/8"	----

THINWALL SPLICERS



PART #	SIZE	
34533T	1/4"	----
34535T	3/8"	----
34541T	1/2"	----
34540T	1/2" x 3/8"	----
34543T	3/8" x 1/4"	----

PLUG



PART #	SIZE	
34572	1/4"	----
34574	3/8"	----

THINWALL

PART #	SIZE	
34572T	1/4"	----
34574T	3/8"	----

BARB X COMPRESSION



PART #	SIZE	
34625	1/4" x 3/8"	----
34626	3/8" x 3/8"	----

PLATED BRASS SPLICERS

ID SIZES
VINYL TUBE ID/ PL. TUBE ID



PART #	SIZE	
34725	3/16"/1/4"	----
34726	1/4" x 3/16"/ 5/16" x 1/4"	----
34728	5/16"/3/8"	----
34727	5/16" x 3/16"/ 3/8"/1/4"	----

TAILPIECES



SS BARB X SWIVEL SHANK

PART #	SIZE	
34711	-/ 3/16"	----
34713	3/16"/ 1/4"	----
34715	1/4"/ 5/16"	----
34716	3/8"/-	----
34717	1/2"/ 3/8"	----



N/P BRASS

PART #	SIZE	
34710	3/16"/1/4"	----
34712	1/4"/5/16"	----
34714	5/16"/3/8"	----
34716	3/8"/-	----
34718	1/2"/-	----



#304 SS 90° ELBOW

PART #	SIZE	
34720	3/16"/-	----
34721	1/4"/1/4"	----
34722	5/16"/5/16"	----
34723	3/8"/3/8"	----
34724	1/2"/1/2"	----

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BEVERAGE FITTINGS
BRASS FITTINGS

90° SWIVEL ELBOW



HOSE ID X FEMALE 45°

PART #	SIZE	
34525	1/4" x 1/4"	----
34526	3/8" x 1/4"	----
34529	3/8" x 3/8"	----
34531	1/2" x 1/2"	----

BARB TO SWIVEL ELBOW



HOSE ID X FEMALE 45° FLARE

PART #	SIZE	
34600	1/4" x 1/4"	----
34601	3/8" x 1/4"	----

MALE ELBOWS



HOSE ID X MALE NPTF

PART #	SIZE	
34610	1/4" x 1/8"	----
34611	3/8" x 1/4"	----
34612	3/8" x 3/8"	----
34613	1/2" x 1/2"	----

FEMALE ADAPTERS



BARB X FEMALE PIPE

PART #	SIZE	
34661	1/4"	----
34658	1/2"	----

U-BEND



PART #	SIZE	A	
34633	3/8"	2	----

THINWALL U-BEND

Part #	Size	A	
34633T	3/8"	1-1/2	----

U-BEND W/MANIFOLD



THINWALL

PART #	SIZE	
34621T	1/4"	----
34622T	3/8"	----

CROSS



PART #	SIZE	
34635T	1/4"	----
34638T	3/8"	----

Y TEES



PART #	SIZE	A	
34650T	1/4"	1-1/8	----
34652T	3/8"	1-1/4	----

BARB HOSE TEES



ID HOSE

PART #	SIZE	
34561	1/8"	----
34562	1/4"	----
34565	5/16"	----
34563	3/8"	----

REDUCING TEES

PART #	1&2	3	
34567	1/4"	3/8"	----
34568	3/8"	1/4"	----

THINWALL TEES



PART #	SIZE	
34562T	1/4"	----
34565T	5/16"	----
34563T	3/8"	----
34564T	1/2"	----

REDUCING THINWALL TEES

PART #	1&2	3	
34567T	1/4"	3/8"	----
34568T	3/8"	1/4"	----

90° BARB SPLICER



ID HOSE

PART #	SIZE	
34551	1/4"	----
34550	5/16"	----
34552	3/8"	----

THINWALL 90° BARB SPLICERS



PART #	SIZE	
34551T	1/4"	----
34552T	3/8"	----
34553T	1/2"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON BARB FITTINGS



Typical Application: Low Pressure Air, Fuel, Lube, and Oil Lines
▪ Pressure determined by tube material and hardness. Our parts have been tested to max 150 PSI.
Advantages: Easy assembly. No clamps needed!!
▪ **Assembly Instructions**
1- Lubricate insert.
2- Hold hose at angle as shown & push on and up over first barb.
3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

▪ **Disassembling Instructions**
1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
2- Bend hose and remove with a quick pull.

See lead free section for lead free push-on barb fittings. **Stainless steel available at the end of this section.**

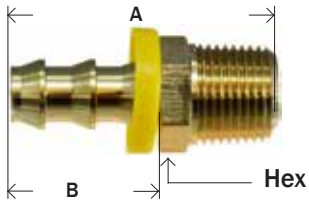
Actual Profile of Push On Barbs



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-ON FITTINGS
BRASS FITTINGS

MALE ADAPTER



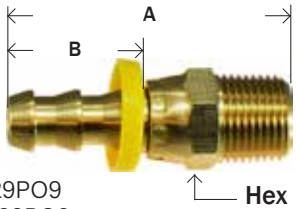
29PO1
129PO1

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30200 *	1/4" x 1/8"	1.43	0.87	0.50	0.04	----
30201 *	1/4" x 1/4"	1.66	0.87	0.56	0.06	----
30211	1/4" x 3/8"	1.66	0.87	0.68	0.06	----
30208	1/4" x 1/2"	1.83	0.88	0.88	0.10	----
30212	5/16" x 1/8"	1.42	0.77	0.43	0.04	----
30213	5/16" x 1/4"	1.66	0.87	0.56	0.06	----
30202	3/8" x 1/8"	1.53	0.97	0.50	0.04	----
30203 *	3/8" x 1/4"	1.69	0.89	0.56	0.07	----
30204 *	3/8" x 3/8"	1.76	0.97	0.68	0.08	----
30205	3/8" x 1/2"	1.97	0.97	0.87	0.10	----
30392	3/8" x 3/4"	1.97	0.92	1.06	0.16	----
30216	1/2" x 1/4"	1.76	0.97	0.68	0.08	----
30206 *	1/2" x 3/8"	1.76	0.97	0.68	0.09	----
30207 *	1/2" x 1/2"	1.97	0.97	0.87	0.14	----
30217	1/2" x 3/4"	1.97	0.97	1.06	0.16	----
30218	1/2" x 1"	2.29	0.97	1.37	0.34	----
30219	5/8" x 3/8"	2.34	1.50	0.75	0.12	----
30209	5/8" x 1/2"	2.45	1.45	0.87	0.16	----
30214	5/8" x 3/4"	2.45	1.45	1.06	0.18	----
30215 *	3/4" x 1/2"	2.45	1.45	0.87	0.21	----
30210 *	3/4" x 3/4"	2.45	1.45	1.06	0.20	----
30238	1" x 3/4"	2.93	1.50	1.25	0.43	----
30239	1" x 1"	3.11	1.50	1.37	0.49	----

- See page 161 for lead free
- See page 36 for Stainless

301 P990A HLM 100B-1 KA-MB 272 29PO 725 625 BPN 941 30182

MALE SWIVEL

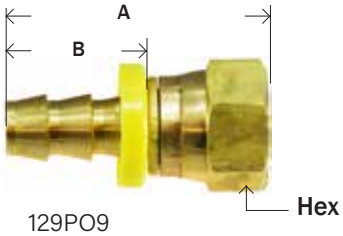


29PO9
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30422	1/4" x 1/8"	2.07	0.87	0.56	0.06	----
30385	1/4" x 1/4"	2.02	0.87	0.56	0.06	----
30423	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
30386	3/8" x 1/4"	2.12	0.97	0.56	0.08	----
30387	3/8" x 3/8"	2.12	0.97	0.68	0.08	----
30388	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
30389	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
30424	5/8" x 1/2	2.80	1.45	0.88	0.18	----
30390	3/4" x 3/4"	2.80	1.45	1.06	0.24	----

921 HMS 285 31382

FEMALE GASKET SEAL SWIVEL - NPSM



129PO9

PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.	
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03	----
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06	----
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06	----
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08	----
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09	----
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11	----
30366	3/4" x 3/4"	2.36	1.55	1.18	0.32	----

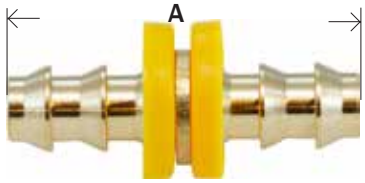
- Not recommend for water due to fiber gasket - for air service only.

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

HOSE SPLICER

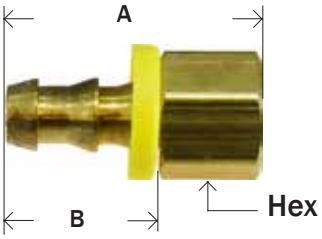


29P08
129PO14

PART #	HOSE I.D.	A	APPROX. WT. LBS.	
30300	1/4"	1.87	0.04	----
30305	5/16"	1.80	0.04	----
30301	3/8"	2.00	0.06	----
30302	1/2"	2.01	0.08	----
30303	5/8"	3.03	0.14	----
30304	3/4"	3.03	0.14	----
30306	1"	3.21	0.28	----

BPM 696 29SPO 296 915 729 100B-Y KA-RM MHL 296 38282

RIGID FEMALE ADAPTER

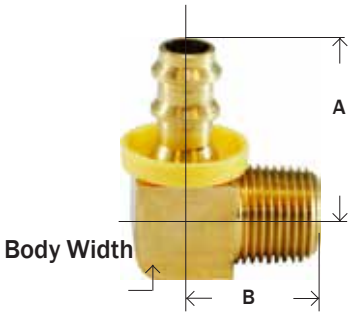


29PO2
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	
30220	1/4" x 1/8"	1.35	0.87	0.50	0.02	----
30221	1/4" x 1/4"	1.51	0.87	0.62	0.06	----
30384	1/4" x 3/8"	1.51	0.77	0.75	0.06	----
30391	5/16" x 1/8"	1.32	0.77	0.50	0.03	----
30222	5/16" x 1/4"	1.51	0.87	0.62	0.06	----
30393	3/8" x 1/8"	1.47	0.92	0.56	0.06	----
30224	3/8" x 1/4"	1.61	0.97	0.62	0.06	----
30225	3/8" x 3/8"	1.63	0.97	0.75	0.06	----
30394	3/8' x 1/2"	1.66	0.92	0.93	0.12	----
30397	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
30223	1/2" x 1/4"	1.76	1.02	0.68	0.08	----
30226	1/2" x 3/8"	1.63	0.97	0.75	0.08	----
30227	1/2" x 1/2"	1.77	0.97	0.93	0.14	----
30396	1/2" x 3/4"	2.07	1.02	1.18	0.20	----
30398	5/8" x 3/8"	2.24	1.55	0.75	0.10	----
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11	----
30403	5/8" x 3/4"	2.26	1.44	1.19	0.20	
30399	3/4" x 1/2"	2.24	1.50	0.93	0.14	----
30395	3/4" x 3/4"	2.55	1.50	1.18	0.24	----
30400	1" x 3/4"	2.55	1.55	1.18	0.25	----
30402	1" x 1"	2.68	1.55	1.43	0.37	----

30282 29FPO HLF 626 274 726 940

MALE ELBOW



29POE
129PO20

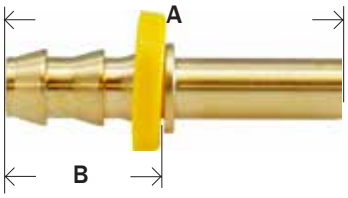
PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	
30372	1/4" x 1/8"	0.98	0.75	0.50	0.04	----
30373	1/4" x 1/4"	1.04	0.95	0.56	0.06	----
30374	5/16" x 1/8"	1.02	0.94	0.50	0.06	----
30375	5/16" x 1/4"	1.09	0.94	0.56	0.08	----
30370	3/8" x 1/8"	1.11	0.75	0.50	0.10	----
30371	3/8" x 1/4"	1.13	0.90	0.56	0.10	----
30376	3/8" x 3/8"	1.21	0.92	0.70	0.12	----
30377	3/8" x 1/2"	1.30	1.19	0.87	0.22	----
30382	1/2" x 3/8"	1.32	1.02	0.70	0.13	----
30378	1/2" x 1/2"	1.50	1.19	0.87	0.22	----
30379	5/8" x 1/2"	1.98	1.19	0.87	0.26	----
30383	3/4" x 1/2"	2.15	1.24	0.87	0.25	----
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34	----

100-C 29EPO 273

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

RIGID TUBE ADAPTER

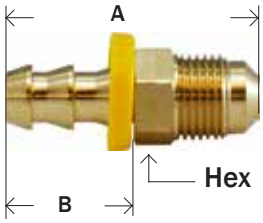


29PO1D
129PO15

PART #	HOSE I.D. X O.D TUBE	A	B	APPROX. WT. LBS.	
30290	1/4" x 3/16"	1.68	0.77	0.04	----
30291	1/4" x 1/4"	1.88	0.77	0.04	----
30292	1/4" x 5/16"	1.88	0.77	0.04	----
30293	5/16" x 5/16"	1.91	0.79	0.04	----
30294	3/8" x 3/8"	2.03	0.92	0.06	----
30426	3/8" x 1/2	1.81	0.97	0.04	----
30297	1/2" x 1/2"	2.13	1.02	0.06	----
30298	5/8" x 5/8"	2.61	1.50	0.10	----
30299	3/4" x 3/4"	2.61	1.50	0.25	----

294 100B-X KA-RL 303 732 694

MALE SAE FLARE ADAPTER

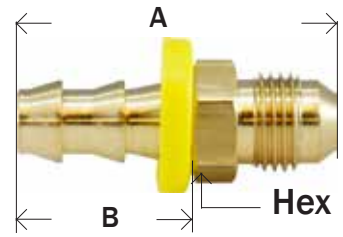


29PO3
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30240	1/4" x 1/4"	7/16-20	1.45	0.75	0.43	0.04	----
30241	1/4" x 5/16"	1/2-20	1.59	0.84	0.50	0.04	----
30249	5/16" x 5/16"	1/2-20	1.60	0.80	0.50	0.06	----
30271	3/8" x 5/16"	1/2-20	1.64	0.86	0.50	0.08	----
30243	3/8" x 3/8"	5/8-18	1.83	0.92	0.62	0.08	----
30245	1/2" x 1/2"	3/4-16	1.98	1.02	0.875	0.10	----
30246	5/8" x 5/8"	7/8-14	2.73	1.50	0.87	0.19	----
30247	3/4" x 3/4"	1-1/16-14	2.98	1.50	1.06	0.32	----

100B-3 KA-MS 727 945 682 302 282

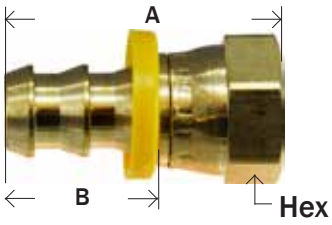
37° MALE JIC FLARE ADAPTER



29PO11
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
32900	1/4" x 1/4"	7/16-20	1.57	0.84	0.50	0.04	----
32901	1/4" x 5/16"	1/2-20	1.60	0.83	0.56	0.04	----
32906	1/4" x 3/8"	9/16-18	1.63	0.77	0.62	0.05	----
32902	3/8" x 3/8"	9/16-18	1.78	0.97	0.62	0.06	----
32903	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32907	5/8" x 5/8"	7/8-14	2.62	1.50	0.93	0.19	----
32905	3/4" x 3/4"	1-1/16-12	2.79	1.50	1.12	0.29	----

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



29PO5
129PO10

PART #	HOSE I.D. X DUAL SEAT	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30230 *	1/4" x 1/4"	7/16-20	1.53	0.87	0.56	0.06	----
30231	1/4" x 5/16"	1/2-20	1.53	0.87	0.62	0.04	----
30232	5/16" x 5/16"	1/2-20	1.56	0.87	0.62	0.04	----
30427	3/8" x 5/16"	1/2-20	1.74	0.87	0.62	0.06	----
30233	3/8" x 1/2"	3/4-16	1.79	0.97	0.87	0.10	----
30234 *	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.10	----
30235	1/2" x 5/8"	7/8-14	1.84	0.97	1.00	0.12	----
30236	5/8" x 1/2"	3/4-16	2.27	1.45	0.87	0.18	----
30237	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30428	3/4" x 5/8"	7/8-14	2.33	1.45	1.00	0.20	----

* See page 36 for stainless
* See page 161 for lead free

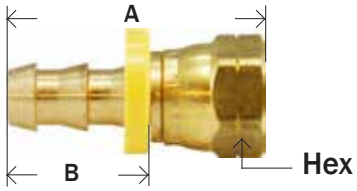
29FDS 287 HDF 309 735 690 P990-K 305 935/ 934

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

45° SAE FLARE FEMALE SWIVEL

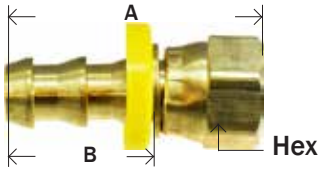


29P06
129PO14

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30250	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30251	1/4" x 5/16"	1/2-20	1.57	0.87	0.62	0.04	----
30253	1/4" x 3/8"	5/8-18	1.63	0.87	0.75	0.06	----
30254	5/16" x 5/16"	1/2-20	1.58	0.87	0.68	0.06	----
30260	5/16" x 3/8"	5/8-18	1.63	0.87	0.75	0.08	----
30252	3/8" x 3/8"	5/8-18	1.73	0.97	0.75	0.10	----
30257	3/8" x 1/2"	3/4-16	1.85	0.87	0.87	0.10	----
30261	1/2" x 3/8"	5/8-18	1.92	1.05	0.75	0.10	----
30255	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.12	----
30258	5/8" x 5/8"	7/8-14	2.35	1.45	1.00	0.14	----
30259	3/4" x 3/4"	1-1/16-14	2.42	1.45	1.25	0.22	----

30882 728 P990-H 29AEPO 307 284 100S-4 KA-NS HSF 684 934

FEMALE 37° JIC FLARE SWIVEL



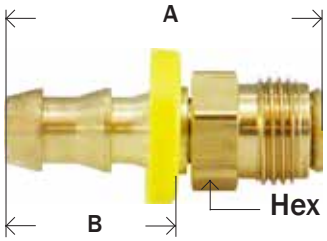
29P07
129PO12

* See page 36 for stainless

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30265	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30264	1/4" x 3/8"	9/16-18	1.57	0.87	0.68	0.06	----
30270	5/16" x 3/8"	9/16-18	1.60	0.82	0.68	0.06	----
30266 *	3/8" x 3/8"	9/16-18	1.70	0.97	0.68	0.08	----
30267	1/2" x 1/2"	3/4-16	1.78	0.97	0.87	0.10	----
30268	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30269 *	3/4" x 3/4"	1-1/16-12	2.40	1.45	1.25	0.22	----
30429	1" x 1"	1-5/16-12	2.60	1.45	1.50	0.39	----

JF 944/934 29J1CPO HJF 688 738 288 100B-6 308 P990-F 30682 KA-NJ

INVERTED FLARE MALE SWIVEL



29P016
129PO6

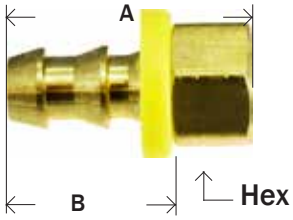
PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	
30275	1/4" x 3/16"	3/8-24	1.52	0.87	0.37	0.04	----
30276	1/4" x 1/4"	7/16-24	1.56	0.87	0.43	0.04	----
30277	1/4" x 5/16"	1/2-20	1.62	0.87	0.50	0.04	----
30280	5/16" x 5/16"	1/2-20	1.62	0.87	0.50	0.06	----
30283	5/16" x 3/8"	5/8-18	1.63	0.87	0.62	0.06	----
30284	3/8" x 5/16"	1/2-20	1.72	0.97	0.50	0.06	----
30279	3/8" x 3/8"	5/8-18	1.76	0.97	0.62	0.06	----
30282	1/2" x 1/2"	3/4-18	1.84	0.97	0.75	0.10	----
30286	5/8" x 5/8"	7/8-18	2.50	1.57	0.87	0.14	----

290 100B-B KA-MF 1MS 947

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB
BRASS FITTINGS

INVERTED FLARE FEMALE ADAPTER

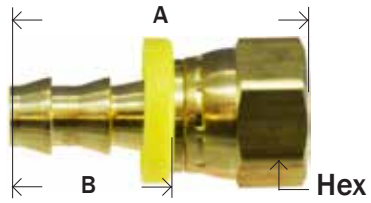


29P013
129PO13

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.	
30310	1/4" x 3/16"	1.12	0.84	0.50	0.02	----
30311	1/4" x 1/4"	1.14	0.84	0.56	0.02	----
30312	1/4" x 5/16"	1.18	0.82	0.62	0.02	----
30316	5/16" x 5/16"	1.25	0.81	0.62	0.04	----
30313	3/8" x 5/16"	1.32	0.87	0.62	0.04	----
30314	3/8" x 3/8"	1.35	0.95	0.75	0.06	----
30315	1/2" x 1/2"	1.73	1.04	0.87	0.12	----

306 100B-A KA-NG 292 P990-J 736 692 946

FEMALE BALLSEAT SWIVEL

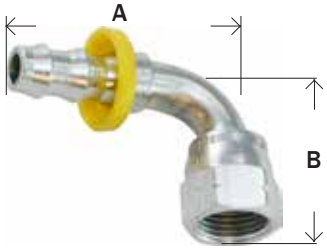


29P04
129PO8

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	
30340	1/4" X 1/8"	1.39	0.85	0.50	0.06	----
30341	1/4" X 1/4"	1.47	0.82	0.68	0.06	----
30342	1/4" x 3/8"	1.40	0.77	0.68	0.09	----
30343	3/8" X 1/4"	1.61	0.97	0.68	0.08	----
30344	3/8" X 3/8"	1.75	0.95	0.81	0.10	----
30430	3/8" x 1/2"	1.79	0.97	0.93	0.11	----
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12	----
30345	1/2" x 3/4"	2.36	1.02	1.18	0.18	----
30349	3/4" X 3/4"	2.36	1.55	1.18	0.22	----

628 278 29SPO 731 NPSM

SAE/ JIC 37°/ 45° FEMALE SWIVEL 90° ZINC PLATED STEEL



PART #	HOSE I.D. X FEMALE 37°/45°	UNF THREAD	A	B	APPROX. WT. LBS.	
30480	1/4"	7/16-20	1.55	0.83	.064	----
30482	3/8"	9/16-18	1.85	0.91	.095	----
30483*	3/8"	5/8-18	1.98	0.85	.095	----
30484	1/2"	3/4-16	2.33	1.09	.171	----
30486	3/4"	1-1/16-12	3.26	1.81	.281	----

* SAE

When we ask for advice, we are usually looking for an accomplice

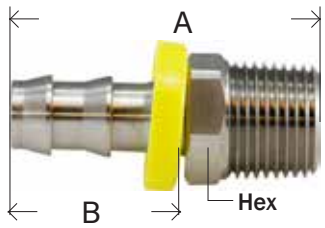
~ Marquis de la Grange

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL PUSH ON 316 HOSE BARB

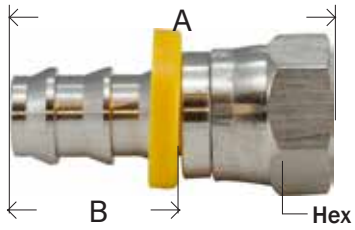
BRASS FITTINGS

316 STAINLESS STEEL MALE ADAPTERS



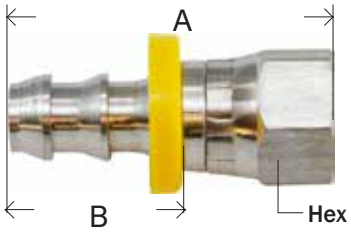
PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.	
30200SS	1/4" x 1/8"	1.42	0.77	0.44	0.027	----
30201SS	1/4" x 1/4"	1.61	0.77	0.56	0.043	----
30203SS	3/8" x 1/4"	1.76	0.92	0.56	0.053	----
30204SS	3/8" x 3/8"	1.76	0.92	0.69	0.067	----
30206SS	1/2" x 3/8"	1.86	1.02	0.69	0.071	----
30207SS	1/2" x 1/2"	2.07	1.02	0.88	0.119	----
30215SS	3/4" x 1/2"	2.55	1.50	0.88	0.20	----
30210SS	3/4" x 3/4"	2.55	1.50	1.06	0.194	----

316 STAINLESS STEEL SAE/ JIC 45°/ 37° FEMALE SWIVEL



PART #	HOSE I.D. X FEMALE 45°/37°	A	B	HEX	APPROX. WT. LBS.	
30230SS	1/4" x 1/4"	1.48	0.74	0.56	0.023	----
30234SS	1/2" x 1/2"	1.93	1.03	0.88	0.04	----

316 STAINLESS STEEL FEMALE 37° JIC FLARE SWIVEL



PART #	HOSE I.D. X FEMALE 37°	A	B	HEX	APPROX. WT. LBS.	
30266SS	3/8" x 3/8"	1.75	.92	0.68	0.065	----
30269SS	3/4" x 3/4"	2.53	1.50	1.25	0.259	----

If opportunity doesn't knock, build a door.

- Milton Berle

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GARDEN HOSE FITTINGS



▪ **Temperature and Working Pressure Ranges**

From +35^{0}F to +100^{0}F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

Note: All female connector ends should have a rubber washer inserted prior to usage.

FGH = Female Garden Hose threads
MGH = Male Garden Hose threads
Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.



Male Garden Hose Profile



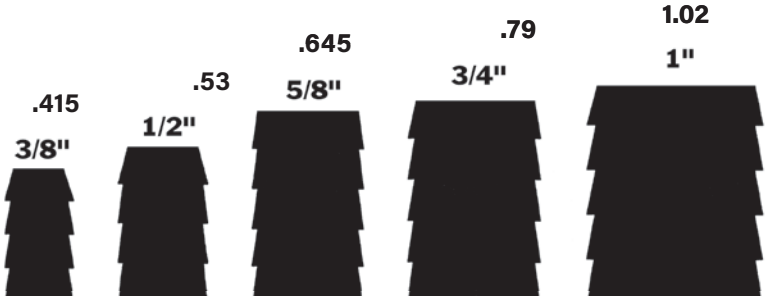
See Plastic section for Plastic Garden Hose Fittings



See page 162 for lead free Garden Hose

Washers included are #30150B black rubber washers.

Actual Profile of Garden Hose Barbs



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STAINLESS STEEL PUSH ON 316 HOSE BARB
BRASS FITTINGS

SWIVEL - MGH X FGH

▪WASHER INCLUDED

Internal Hex



PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.	
30000**	3/4" x 3/4"	1.03	0.50*	0.26	----

* Internal Hex
* Not a live swivel
** available in swivel crimp style

SWIVEL - FGH X FGH

▪WASHER INCLUDED



30-011



30-012

PART #	FGH X FGH	A	HEX	APPROX. WT. LBS.	
30011	3/4" x 3/4"	1.03	1.18 O.D.	0.24	----
30012	No Swivel	1.08	1.19	0.24	----

HUS 91 203W GSU 101GHSV 22AS 506 FS66

SWIVEL - FGH X FEMALE PIPE

▪WASHER INCLUDED



PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30001	3/4" x 1/2"	1.20	1.00	0.11	----
30006	3/4" x 3/4"	1.11	1.12	0.11	----

S1 HSU11 91Z 197S 98GHSV 5AS 21517 502 FS65

EVAPORATIVE COOLER FITTINGS



50-016



30-013



30-020

PART #	SIZE	
50016	MGH x 1/2" FIP	----
30013	1/2 MIP x 1/2 FIP x 1/8	----
30019	3/4 MIP x 3/4 FIP x 1/8	----
30020	MGH x FGH x 1/8	----

RIGID - FGH X FEMALE PIPE

▪WASHER INCLUDED





30-017

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30016	3/4" x 1/8"	1.02	1.18	0.08	----
30017	3/4" x 1/4"	0.65	1.12	0.07	----
30018	3/4" x 3/8"	1.19	1.18	0.11	----

95GH 501

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GARDEN HOSE
BRASS FITTINGS

RIGID - FGH X FEMALE PIPE

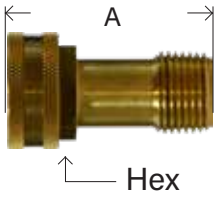


PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30078	3/4" x 1/2"	1.06	1.18	0.10	----
30083	3/4" x 3/4"	1.06	1.18	0.12	----

FS67 198 HU11 21507 501 99GH 5A H15PP

SWIVEL - FGH X MALE PIPE

·WASHER INCLUDED

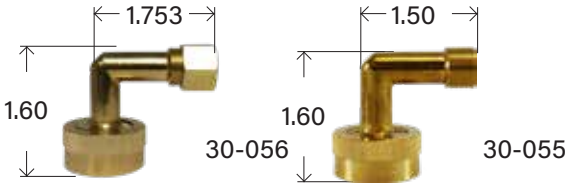


PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30047	3/4" x 1/4"	2.04	0.75	0.13	----
30048	3/4" x 3/8"	2.06	0.75	0.14	----
30049	3/4" x 1/2"	2.06	0.87	0.18	----

504 89GH W1 62H4 88GH W1

3/8" COMP 3/4" FGH DISHWASHER 90° ELBOW

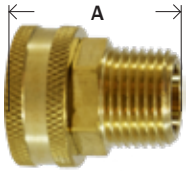
· WASHER INCLUDED



PART #	3/4 FEMALE GARDEN HOSE THREAD X 3/8 COMPRESSION	
30055	3/4" x 3/8" Body Only	----
30056	3/4" x 3/8" w/ nut & sleeve	----

SWIVEL - FGH X MALE PIPE

· WASHER INCLUDED





* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30181*	3/4" x 1/4"	1.43	1.18	0.13	----
30184*	3/4" x 3/8"	1.43	1.18	0.15	----
30183	3/4" x 1/2"	1.32	0.81	0.11	----
30182*	3/4" x 3/4"	1.43	1.18	0.14	----

RIGID - FGH X MALE PIPE

· WASHER INCLUDED


30094




30087

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30087	3/4" x 3/8"	1.37	1.18	0.11	----
30088	3/4" x 1/2"	1.06	1.18	0.09	----
30088S	3/4" x 1/2"(1/2"SWT)				
30093	3/4" x 3/4"	1.06	1.18	0.11	----
30094	3/4" x 3/4"(1/2" FIP)	1.17	1.18	0.11	----
30093L*	3/4" x 3/4"	1.22	1.18	0.14	----

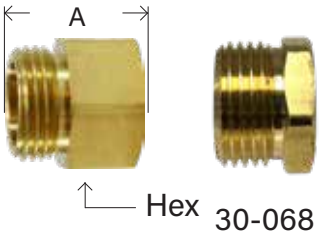
* Long pattern
** 1/2 Swt = 5/8 O.D.

21505 503 83GH 20A HU21 199 H7

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GARDEN HOSE
BRASS FITTINGS

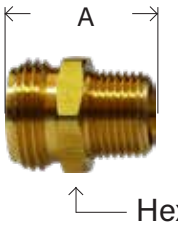
RIGID - MGH X FEMALE PIPE



PART #	MGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
30066	3/4" x 1/4"	1.10	1.06	0.09	----
30067	3/4" x 3/8"	1.09	1.06	0.12	----
30068	3/4" x 1/2"	0.81	1.06	0.10	----
30073	3/4" x 3/4"	1.12	1.18	0.10	----
30074	3/4" x 1"	1.36	1.37	0.19	
30075	1" x 1"	1.60	1.38	0.25	

197 18R HU12 H11PP 18A 507 18H 81GH 21503 MF67

RIGID - MGH X MALE PIPE

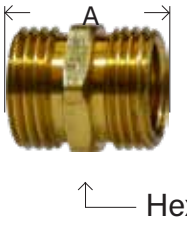


PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	
30054	3/4" x 1/4"	1.26	1.06	0.12	
30053	3/4" x 3/8"	1.25	1.06	0.10	----
30058	3/4" x 1/2"	1.31	1.06	0.12	----
30058S*	34" x 1/2"SWT				
30063**	3/4" x 3/4" x 1/2"	1.31	1.06	0.13	----
30063BE***	3/4" x 3/4"	1.31	1.06	0.15	----
30063S	3/4" x 3/4" Short	1.10	1.06	0.10	----
30064	3/4" x 1"	1.88	1.37	0.35	----
30065	1" x 1"	1.88	1.37	0.26	

No Tap
* (1/2 Swt = 5/8 O.D.)
** (Tapped 1/2 FIP)
*** (Tapped 1/2 FIP Both ends)

19R 196 H530 21501 508 HU22 514 71GH 19A

RIGID - MGH X MGH

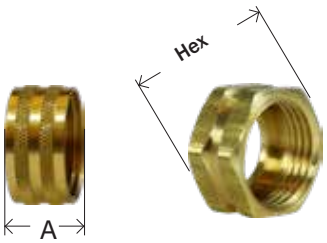


PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.	
30098	3/4" x 3/4" (1/2" FIP)	1.22	1.06	0.13	----
30099	3/4" x 3/4"	1.38	1.06	0.15	----
30100*	1" x 3/4"	1.31	1.37	0.21	----
30101	1" x 1"	1.38	1.37	0.23	

* 1-11-1/2

21500 509 75GH 23A H8 19R

GARDEN HOSE NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	
30021	Knurled	0.61	1.37 O.D.	0.08	----
30022	Hex Nut	0.62	1.18	0.08	----

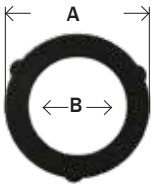
Dimension data can change without notice. Please check when dimensions are critical.

94GH GHN1 HNR 21514

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

GARDEN HOSE WASHERS



30-150

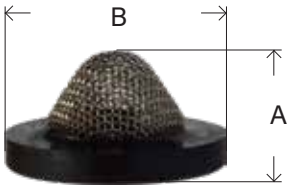

30-150R

PART #	SIZE	A	B	THICK-NESS	APPROX. WT. LBS.	
30150	black*	0.98	0.68	0.13	0.01	----
30150R	red	1.00	0.68	0.13	0.01	----
30150B	black rubber	1.00	0.68	0.13	0.01	----
30151	1"	1.27	0.86	0.16	0.01	----

GHW 901GH

* plasticized rubber

GARDEN HOSE FILTER WASHER



- 300 Series Stainless Steel Screen

PART #	SIZE	A	B	APPROX. WT. LBS.	
30180	30 Mesh	0.52	1.00	0.02	----
30180F	60 Mesh	0.52	1.00	0.02	----

LA662

GARDEN HOSE CAP

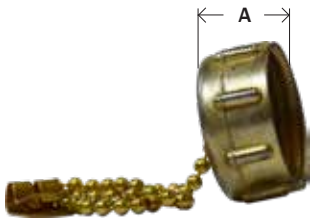


PART #	SIZE	A	APPROX. WT. LBS.	
30103	3/4" Die Cast	0.58	0.04	----
30103B	3/4" Barstock	0.60	0.048	----

513 96GH GHN5 HC1 LA215 21518 200-W

- Garden hose washers sold seperately

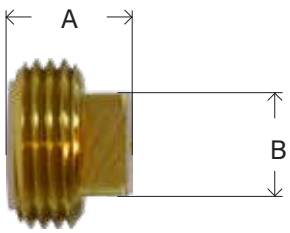
GARDEN HOSE CAP WITH CHAIN



PART #	SIZE	A	APPROX. WT. LBS.	
30142	3/4" w/ 12" Chain	0.58	0.06	----

* Zinc die cast

GARDEN HOSE PLUG



PART #	SIZE	A	B	APPROX. WT. LBS.	
30026	3/4"	0.69	0.61	0.12	----

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GARDEN HOSE
BRASS FITTINGS

HOSE MENDERS - SOLID BARB X BARB

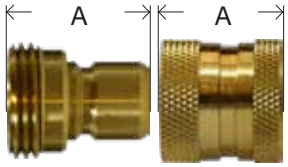


PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	
32096	1/2″	2.00	0.96	0.62	0.06	----
32097	5/8″	2.05	0.96	0.75	0.08	----
32098	3/4″	2.50	1.15	0.87	0.10	----
32099	1"	3.00	1.44	1.02	0.23	----

QUICK DISCONNECT GARDEN HOSE COUPLERS

·WASHER INCLUDED

- Unvalved construction allows maximum Flow
- 150 PSI
- NBR Seals



30-452 30-451

PART #	SIZE	A	APPROX. WT. LBS.	
30450	Complete	1.70	0.24	----
30451	Female end	1.14	0.12	----
30452	Male end	1.26	0.12	----
30149	Recessed Washer	1.02	0.01	

LA73C

MALE FLARE X FGH RIGID

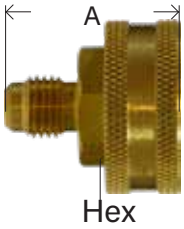


PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	
30123	3/8″ x 3/4″	1.31	1.18	0.10	----
30128	1/2″ x 3/4″	1.38	1.18	0.12	----
30133	5/8″ x 3/4″	1.53	1.18	0.14	----

190 46WH HFU21

MALE FLARE X FGH SWIVEL

·WASHER INCLUDED



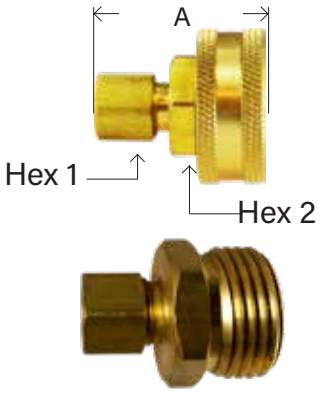
PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	
30052	1/4″ x 3/4″	1.24	0.75	0.10	----
30138	3/8″ x 3/4″	1.25	0.25*	0.12	----
30139	1/2″ x 3/4″	1.49	0.81	0.14	----

* Internal Hex

50GHSV 51GHSV W1 68H 191

COMPRESSION X FGH

·WASHER INCLUDED



PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	
30050	1/4″ x 3/4″	1.02	0.50	0.75	0.09	----
30051	3/8″ x 3/4″	1.04	0.62	0.75	0.12	----

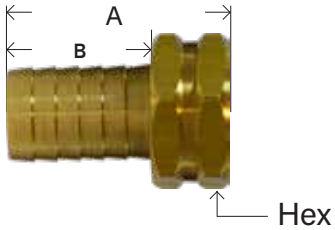
PART #	NO SWIVEL COMPRESSION X MGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	
30135	1/4″ x 3/4″	1.45	0.50	0.625	0.14	----
30136	3/8″ x 3/4″	1.525	0.625	0.62	0.15	----
30137	1/2" x 3/4"	1.8	0.815	0.685	0.19	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

•WASHER INCLUDED



29FGH
329F



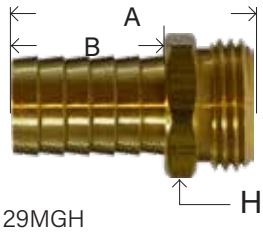
BRASS

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	
30031	3/8″ x 3/4"	1.82	1.19	1.18	0.11	----
30032	1/2″ x 3/4"	1.82	1.19	1.18	0.12	----
30033	5/8″ x 3/4"	1.82	1.19	1.18	0.13	----
30034	3/4″ x 3/4"	1.82	1.19	1.18	0.15	----
30044	1" x 3/4"	2.10	1.19	1.18	0.18	----
30035	1″ x 1"	2.28	1.47	1.50	0.18	----

STAINLESS STEEL 316

30032SS	1/2" x 3/4"	1.82	1.19	1.18	0.12	----
30033SS	5/8" x 3/4"	1.82	1.19	1.18	0.13	----
30034SS	3/4" x 3/4"	1.82	1.19	1.18	0.15	----

MALE END ONLY



29MGH
329M



BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30039	3/8″ x 3/4"	1.88	1.19	1.06	0.12	----
30040	1/2″ x 3/4"	1.88	1.19	1.06	0.12	----
30041	5/8″ x 3/4"	1.88	1.19	1.06	0.12	----
30042	3/4″ x 3/4"	1.88	1.19	1.06	0.13	----
30045	1" x 3/4"	1.94	1.19	1.06	0.21	----
30043	1″ x 1"	2.34	1.47	1.37	0.26	----

STAINLESS STEEL 316

30040SS	1/2" x 3/4"	1.88	1.19	1.06	0.12	----
30041SS	5/8" x 3/4"	1.88	1.19	1.06	0.12	----
30042SS	3/4" x 3/4"	1.88	1.19	1.06	0.13	----

GARDEN HOSE COUPLING

•WASHER INCLUDED



BRASS

PART #	HOSE BARB	
30025	3/8″	----
30027	1/2″	----
30028	5/8″	----
30029	3/4″	----
30046	1"(3/4" threads)	----
30030	1″	----



STAINLESS STEEL 316

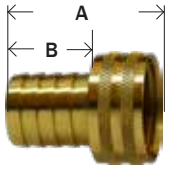
30027SS	1/2"	----
30028SS	5/8"	----
30029SS	3/4"	----

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE
BRASS FITTINGS

FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT



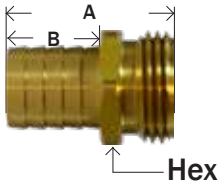
PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	
30464	1/4" x 3/4"	1.39	0.77	0.09	
30466	1/2" x 3/4"	1.50	0.88	0.08	----
30467	5/8" x 3/4"	1.50	0.88	0.09	----
30468	3/4" x 3/4"	1.47	0.88	0.10	----

FEMALE END ONLY - SHORT SHANK W/ HEX



PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.	
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11	----
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11	----
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13	----

MALE END ONLY - SHORT SHANK



PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30469	1/4" x 3/4"	1.55	0.88	1.06	0.11	
30471	1/2" x 3/4"	1.55	0.88	1.06	0.11	----
30472	5/8" x 3/4"	1.56	0.88	1.06	0.12	----

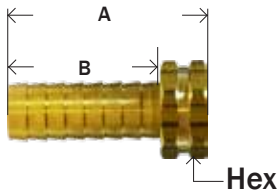
GARDEN HOSE COUPLING SETS - SHORT SHANK W/ HEX NUT



PART #	HOSE BARB	
30457	1/2"	----
30458	5/8"	----
30459	3/4"	----

FEMALE SWIVEL ONLY - 2" SHANK

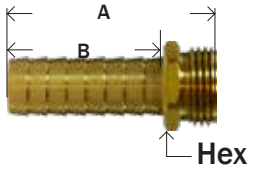
•WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	
30505	1/2" x 3/4"	2.55	2.04	1.18	0.13	----
30506	5/8" x 3/4"	2.56	2.04	1.18	0.16	----
30507	3/4" x 3/4"	2.67	2.04	1.18	0.17	----
30508	1" x 1"	2.84	2.03	1.43	0.29	----

GHFL 594

MALE END ONLY - 2" SHANK



PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	
30510	1/2" x 3/4"	2.72	2.04	1.06	0.16	----
30511	5/8" x 3/4"	2.72	2.04	1.06	0.17	----
30512	3/4" x 3/4"	2.72	2.04	1.06	0.20	----
30513	1" x 1"	2.90	2.03	1.37	0.28	----

GHML 593

GARDEN HOSE COUPLING SETS - 2" SHANK

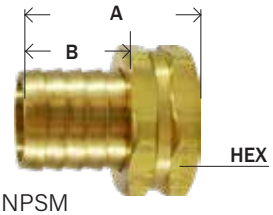


PART #	HOSE X FGH	
30516	1/2"	----
30517	5/8"	----
30518	3/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NPSM GARDEN HOSE
BRASS FITTINGS

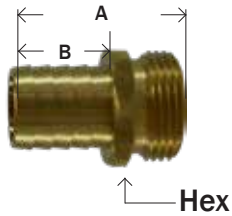
NPSM FEMALE SHORT SHANK



329NPSM

PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30545	1/2	3/4"	1.45	0.88	1.18	----
30546	5/8	3/4"	1.47	0.88	1.18	----
30547	3/4	3/4"	1.47	0.88	1.18	----
30548	1	1"	1.50	1.00	1.50	----

NPSM MALE SHORT SHANK



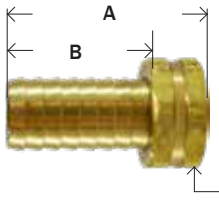
PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30550	1/2	3/4"	1.56	0.88	1.06	----
30551	5/8	3/4"	1.56	0.88	1.06	----
30552	3/4	3/4"	1.56	0.88	1.06	----
30553	1	1"	1.77	0.98	1.30	----

NPSM SHORT SHANK SETS



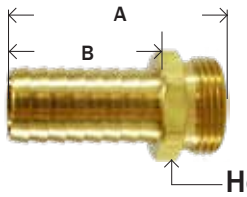
PART #	SIZE	
30540	1/2"	----
30541	5/8"	----
30542	3/4"	----
30543	1"	----

NPSM FEMALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30565	1/2	1/2"	2.09	1.50	0.94	----
30566	5/8	3/4"	2.09	1.50	1.18	----
30567	3/4	3/4"	2.09	1.50	1.18	----
30568	1	1"	2.12	1.53	1.50	----

NPSM MALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	
30570	1/2	1/2"	2.18	1.50	0.87	----
30571	5/8	3/4"	2.18	1.50	1.06	----
30572	3/4	3/4"	2.18	1.50	1.06	----
30573	1	1"	2.32	1.53	1.30	----

NPSM LONG SHANK SETS



PART #	SIZE	
30560	1/2"	----
30561	5/8"	----
30562	3/4"	----
30563	1"	----

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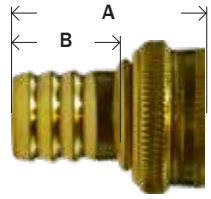
GARDEN HOSE VALVES/ FITTINGS

BRASS FITTINGS

WROUGHT BRASS

WROUGHT BRASS - FEMALE END ONLY

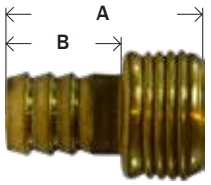
·WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	
30526	5/8" x 3/4"	1.58	0.91	0.05	----
30527	3/4" x 3/4"	1.50	0.84	0.06	----

85L

WROUGHT BRASS COUPLINGS - MALE END ONLY



PART #	HOSE BARB X MGH	A	B	APPROX. WT. LBS.	
30530	1/2" x 3/4"	1.50	0.88	0.02	----

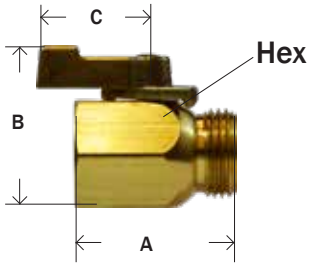
85M

GARDEN HOSE VALVES

ONE WAY BRASS BALL VALVE - FGH X MGH

▪ 500 PSI ▪ 180°F

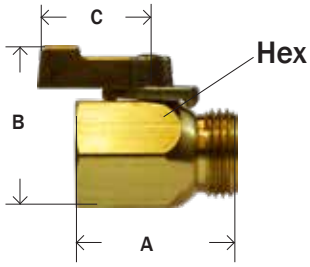
▪ WASHER INCLUDED



PART #	FGH X MGH	A	B	C	HEX	APPROX. WT. LBS.	
30161	3/4" x 3/4"	1.87	1.89	1.31	1.06	0.42	----

ONE WAY BRASS BALL VALVE - FEMALE PIPE X MGH

▪ 500 PSI ▪ 180°F



PART #	FEMALE NPTF X MGH	A	B	C	HEX	APPROX. WT. LBS.	
30162	3/4" x 3/4"	1.55	1.89	1.31	1.06	0.42	----

ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER

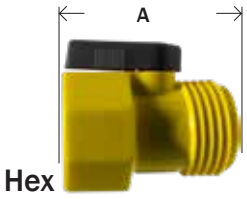
▪ WASHER INCLUDED



PART #	FGH X MGH	A	APPROX. WT. LBS.	
30631	3/4" x 3/4"	1.67	0.08	----

PLASTIC GARDEN HOSE VALVE ▪ CYCOLAC BODY & BALL

▪ WASHER INCLUDED



PART #	FGH X MGH	A	HEX	APPROX. WT. LBS.	
30163	3/4" x 3/4"	1.75	1.25	0.04	----

LA45OC

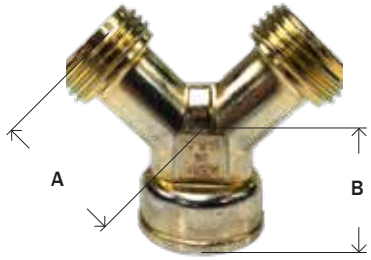
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE VALVES

BRASS FITTINGS

ZINC ALLOY HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED



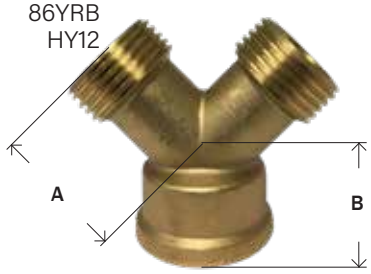
PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30141	3/4"	1.70	0.57	1.5	

86Y 21A

CAST BRASS HOSE - "Y" CONNECTOR

▪ WASHER INCLUDED

86YRB
HY12

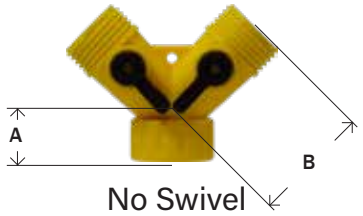


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30140	3/4"	1.40	0.67	0.22	----

86Y 21A

PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Y"

▪ WASHER INCLUDED

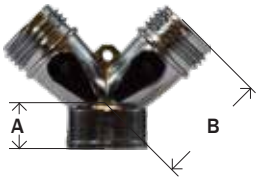


No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30160	3/4"	0.74	1.87	0.08	----

"Y" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

▪ WASHER INCLUDED



No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	
30626	3/4"	0.60	1.66	0.10	----

"Y" SHAPE BRASS CONNECTOR W/ 2-WAY SHUT OFF

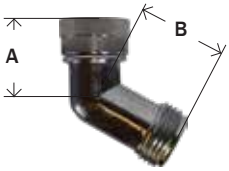
▪ WASHER INCLUDED



▪ Brass Levers

PART #	SIZE	DESCRIPTION FGH SWIVEL X MGH(2)	APPROX. WT. LBS.	
30627	3/4"	3/4 Double Y valve, swivel inlet	0.56	----

ZINC ALLOY SWIVEL HOSE CONNECTOR



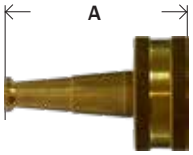
PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.	
30629	3/4"	1.31	1.50	0.08	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE NOZZLES
BRASS FITTINGS

2-1/2" BRASS NOZZLE

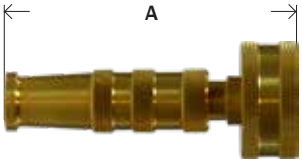
▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30637	3/4"	2.50	0.14	----

3" CROSSED PATTERN BRASS NOZZLE

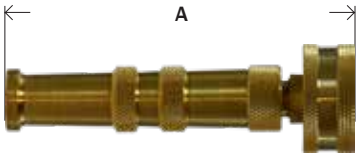
▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30640	3/4"	2.89	0.25	----

4" CROSSED PATTERN BRASS NOZZLE

▪ WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	
30638	3/4"	3.80	0.50	----

▪ WASHER INCLUDED

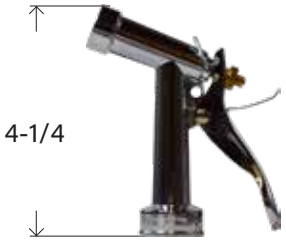


Adjustable Spray

Part #	Size		
30600	5-1/2"	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector	----

▪ WASHER INCLUDED

Lead Free



Part #	Size		
30620	4-1/4"	Zinc Alloy spray nozzle	----

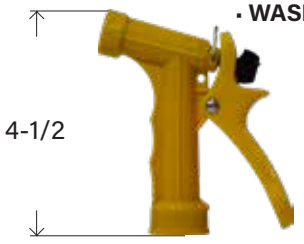
▪ WASHER INCLUDED



Lead Free
Adjustable Spray

Part #	Size		
30609	5-1/4"	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip	----

▪ WASHER INCLUDED



Part #	Size		
30630	4-1/2"	Plastic spray nozzle	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

▪Typical Application
LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73^{0}F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

▪Vibration
Good resistance - use long nut when greater vibration resistance is required.

▪Temperature Range
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

▪ Tolerance
+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

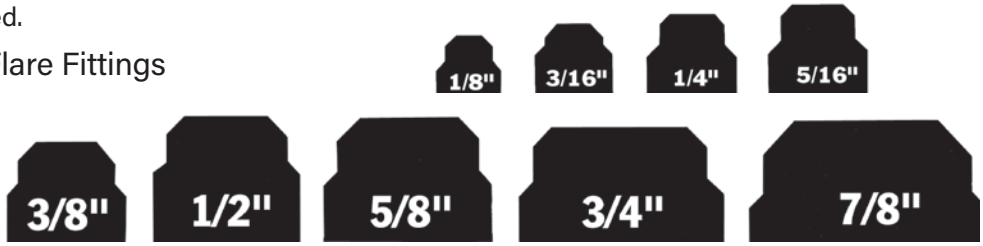
▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

Assembly Instructions
1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45^0 flaring tool.
a-Measure flare diameter.
b- Examine flare for excessive thin out.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.
Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.



▪ See Lead Free Flare Fittings page 163-164

Actual O.D. of Flare Fittings

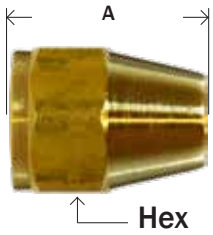


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SAE 45° FLARE
BRASS FITTINGS

SHORT ROD NUT

SAE# 010110

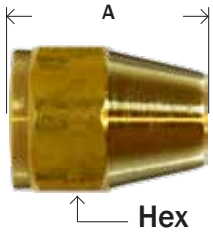


41S
411S

PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	
10013	1/8″	5/16-24	0.50	0.37	0.01	----
10014	3/16″	3/8-24	0.62	0.43	0.02	----
10015	1/4″	7/16-20	0.75	0.56	0.03	----
10015L	1/4"	7/16-20	0.75	0.50	0.03	----
10016	5/16″	1/2-20	0.88	0.62	0.04	----
10017L	3/8″	5/8-18	0.77	0.75	0.05	----
10017	3/8″	5/8-18	1.00	0.75	0.04	----
10018	7/16″	11/16-16	1.06	0.81	0.06	----
10019L	1/2″	3/4-16	0.93	0.87	0.06	----
10019	1/2″	3/4-16	1.12	0.87	0.09	----
10020L	5/8″	7/8-14	1.08	1.00	0.10	----
10020	5/8″	7/8-14	1.31	1.06	0.15	----
10021	3/4″	1-1/16-14	1.50	1.25	0.24	----
10022	7/8″	1-1/4-12	1.62	1.50	0.36	----
10026	1″	1-3/8-12	1.81	1.62	0.44	----

20910 41FS 1110 N1 41FX 441S 'L'

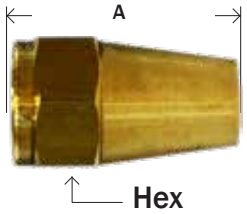
REDUCING SHORT ROD NUT



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10023	3/8″ x 1/4″	0.74	0.81	0.06	----
10024	1/2″ x 3/8″	0.86	0.94	0.10	----
10025	5/8″ x 1/2″	0.99	1.06	0.12	----

LONG ROD NUT

SAE# 010111



41L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10001	1/8″	0.75	0.37	0.01	----
10002	3/16″	0.81	0.43	0.02	----
10003L	1/4"	0.98	0.55	0.03	----
10003	1/4″	0.94	0.56	0.03	----
10004	5/16″	1.12	0.62	0.04	----
10005	3/8″	1.31	0.75	0.06	----
10006	1/2″	1.62	0.87	0.12	----
10007	5/8″	1.88	1.06	0.20	----
10008	3/4″	2.19	1.25	0.34	----

41FL N2 241 441 41

"L" means light pattern.

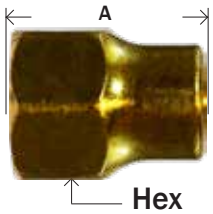
-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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SAE 45° FLARE
BRASS FITTINGS

LONG FORGED NUT

SAE# 010167



640L
641L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10028	1/4″	0.94	0.62	0.05	----
10030	3/8″	1.06	0.81	0.08	----
10031	1/2″	1.19	0.94	0.12	----
10032	5/8″	1.44	1.06	0.26	----
10033	3/4″	1.75	1.31	0.35	----

41FF 39 N4 14FL 641

SHORT FORGED NUT

SAE# 010166



641S
6401S

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10038	3/16″	0.56	0.50	0.02	----
10039	1/4″	0.60	0.62	0.04	----
10040	5/16″	0.66	0.69	0.04	----
10041	3/8″	0.70	0.81	0.06	----
10042	1/2″	0.82	0.94	0.08	----
10043	5/8″	0.95	1.06	0.12	----
10044	3/4″	1.16	1.31	0.22	----
10045	7/8″	1.18	1.38	0.30	----

14FS 41FFS 40 641-S 1116 NS4

EXTRA HEAVY SHORT FORGED NUT



641SH
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10046	1/4″	0.63	0.75	0.04	----
10047	3/8″	0.72	0.88	0.06	----
10048	1/2″	0.88	1.00	0.08	----
10049	5/8″	0.98	1.12	0.12	----

NSA

FORGED REDUCING NUT



660
662S

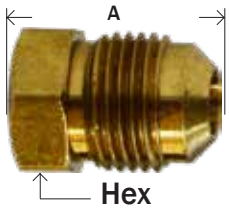
PART #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	
10051	5/16″ x 1/4″	0.66	0.75	0.06	----
10052	3/8″ x 1/4″	0.72	0.81	0.06	----
10053	3/8″ x 5/16″	0.72	0.81	0.08	----
10054	1/2″ x 3/8″	0.81	0.94	0.08	----
10055	5/8″ x 3/8″	0.96	1.12	0.15	----
10056	5/8″ x 1/2″	0.97	1.06	0.12	----
10058	3/4″ x 5/8″	1.17	1.31	0.30	----

NSR4 14FS 41FRS 40R 662-S

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SAE 45° FLARE
BRASS FITTINGS

FLARED PLUG



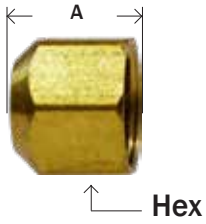
39
439

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10062	1/8"	0.53	0.34	0.01	
10063	3/16"	0.59	0.50	0.02	----
10064 *	1/4"	0.69	0.43	0.02	----
10065 *	5/16"	0.78	0.50	0.04	----
10066 *	3/8"	0.88	0.62	0.06	----
10067	1/2"	1.06	0.75	0.10	----
10068	5/8"	1.19	0.87	0.14	----
10069	3/4"	1.32	1.06	0.22	----

* Available in Stainless Steel. Add SS to the part#

58 639F PF 57 P2 2229 439

FLARED CAP



40
440

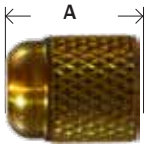
PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10073	1/8"	0.46	0.37	0.02	
10074	3/16"	0.47	0.50	0.02	----
10075 *	1/4"	0.48	0.50	0.02	----
10075EH	1/4"	0.54	0.57	0.02	
10076	5/16"	0.62	0.62	0.04	----
10077 *	3/8"	0.58	0.75	0.03	----
10078	1/2"	0.69	0.81	0.14	----
10079	5/8"	0.81	0.94	0.20	----
10080	3/4"	1.17	1.37	0.30	----

* Available in Stainless Steel. Add SS to the part#

640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

- Neoprene
- **O-Ring Included**



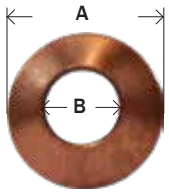
NFTS
FTC5

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	
10081	1/4"	0.62	0.02	----
10082	3/8"	0.70	0.03	

NFT5

COPPER GASKET

SAE# 010113



463

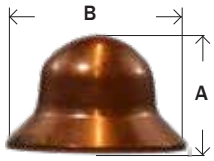
PART #	SIZE	A	B	APPROX. WT. LBS.	
10084	3/16"	0.31	0.12	0.01	----
10085	1/4"	0.36	0.19	0.01	----
10086	5/16"	0.42	0.22	0.01	----
10087	3/8"	0.55	0.28	0.01	----
10088	1/2"	0.66	0.41	0.01	----
10089	5/8"	0.77	0.50	0.01	----
10090	3/4"	0.95	0.62	0.01	----

B2 2GF 6251 FG 157 59 46

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COPPER BONNET

SAE# 010114

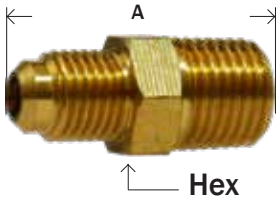


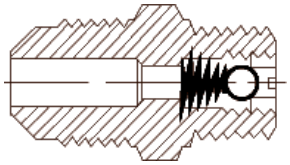
464

PART #	SIZE	A	B	APPROX. WT. LBS.	
10094	3/16″	0.16	0.31	0.01	----
10095	1/4″	0.22	0.36	0.01	----
10097	3/8″	0.34	0.55	0.01	----
10098	1/2″	0.41	0.66	0.01	----
10099	5/8″	0.44	0.77	0.01	----
10100	3/4″	0.56	0.95	0.01	----

B1 3GF 64C 57 156 FB 695 464

MALE BALL CHECK CONNECTOR





43
403

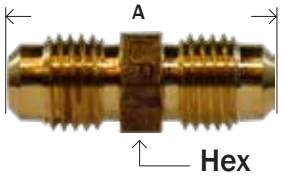
PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
10131*	1/4" x 1/8"	1.06	0.43		----
10256WC	1/4″ x 1/4″	1.24	0.6	0.04	----
10133*	3/8″ x 1/4″	1.31	0.62	0.08	----
10132	5/16" x 1/8"	1.14	0.50	0.04	

43A

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

UNION

SAE# 010101



42
402

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10104	1/8″	0.91	0.31	0.02	----
10105	3/16″	1.06	0.37	0.02	----
10106L	1/4″	1.19	0.43	0.03	----
10106 *	1/4″	1.19	0.43	0.03	----
10106EH	1/4"	1.55	0.56	0.05	
10107	5/16″	1.34	0.50	0.05	----
10108L	3/8″	1.50	0.62	0.09	----
10108 *	3/8′	1.50	0.62	0.09	----
10109L	1/2″	1.67	0.75	0.12	----
10109	1/2″	1.81	0.75	0.14	----
10110L	5/8″	2.00	0.87	0.20	----
10110	5/8″	2.12	0.87	0.20	----
10111	3/4″	2.44	1.06	0.35	----
10112	7/8″	2.72	1.25	0.52	----

* Available in Stainless Steel. Add SS to the part#

42F U2

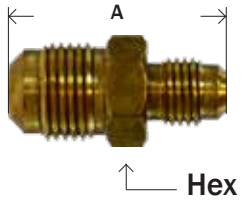
"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

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SAE 45° FLARE
BRASS FITTINGS

REDUCING UNION

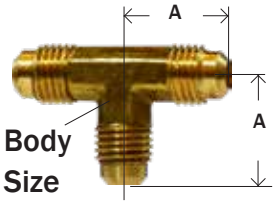


42R
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	
10115	1/4" x 1/8"	1.11	0.44	0.03	----
10116	1/4" x 3/16"	1.12	0.44	0.03	----
10117	5/16" x 1/4"	1.28	0.50	0.04	----
10118	3/8" x 1/4"	1.38	0.62	0.06	----
10119	3/8" x 5/16"	1.44	0.62	0.08	----
10120	1/2" x 1/4"	1.53	0.75	0.10	----
10121	1/2" x 3/8"	1.69	0.75	0.10	----
10122	5/8" x 3/8"	1.88	0.87	0.17	----
10123	5/8" x 1/2"	1.87	0.87	0.14	----
10126	3/4" x 1/2"	2.18	1.06	0.26	----
10127	3/4" x 5/8"	2.20	1.06	0.27	----

656F UR2 42-R

UNION TEE



Forged Tee

44F
404
244

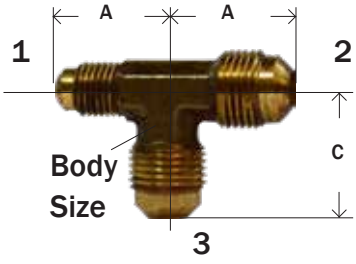
SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	
10157	1/8"	0.67	0.36	0.04	----
10158	3/16"	0.75	0.36	0.06	----
10159 **	1/4"	0.78	0.36	0.06	----
10160 **	5/16"	0.91	0.44	0.10	----
10161 **	3/8"	1.00	0.44	0.12	----
10162	1/2"	1.16	0.59	0.19	----
10163	5/8"	1.41	0.69	0.30	----
10164	3/4"	1.64	0.88	0.53	----
10165	7/8"	1.75	1.25	0.93	----

** Available in Stainless Steel. Add SS to the part#

244F T2 144F

REDUCING TEE 1 X 2 X 3



44FR
509

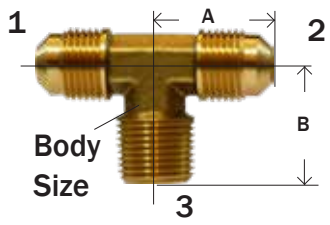
PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	----
10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12	----
10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10	----
10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12	----
10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11	----
10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	----
10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	----
10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18	----
10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18	----
10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18	----
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	----
10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28	----
10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27	----
10188	5/8" x 5/8" x 3/8"	1.38	1.16	0.69	0.30	----
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28	----

144F TR2 659F 684F 44R

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SAE 45° FLARE
BRASS FITTINGS

MALE BRANCH TEE
SAE# 010425



Forged Tee

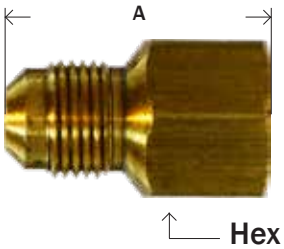
45R
245
405

PART #	MALE FLARE X MALE NPT (1&2) X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10203	3/16" x 1/8"	0.75	0.75	0.36	0.10	----
10204	1/4" x 1/8"	0.78	0.75	0.36	0.05	----
10205	1/4" x 1/4"	0.88	0.88	0.44	0.08	----
10206	1/4" x 3/8"	0.92	1.00	0.47	0.10	----
10207	5/16" x 1/8"	0.89	0.78	0.44	0.08	----
10208	5/16" x 1/4"	0.94	0.94	0.44	0.08	----
10209	3/8" x 1/8"	1.00	0.91	0.44	0.14	----
10210	3/8" x 1/4"	1.00	0.94	0.44	0.12	----
10211 **	3/8" x 3/8"	1.00	1.00	0.47	0.13	----
10212 **	3/8" x 1/2"	1.12	1.22	0.69	0.22	----
10213	1/2" x 1/4"	1.16	1.00	0.59	0.20	----
10214	1/2" x 3/8"	1.16	1.14	0.59	0.19	----
10215	1/2" x 1/2"	1.22	1.22	0.69	0.24	----
10216	1/2" x 3/4"	1.38	1.41	0.88	0.22	----
10217	5/8" x 3/8"	1.38	1.25	0.69	0.24	----
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	----
10219	5/8" x 3/4"	1.41	1.41	0.88	0.36	----
10220	3/4" x 1/2"	1.63	1.59	0.88	0.49	----

** Available in Stainless Steel. Add SS to the part#

T1 145F 45

FEMALE ADAPTER
SAE# 010103



46
246
406

PART #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10227	3/16" x 1/8"	0.97	0.56	0.03	----
10228L	1/4" x 1/8"	1.03	0.56	0.03	----
10228	1/4" x 1/8"	1.03	0.56	0.04	----
10229L	1/4" x 1/4"	1.06	0.68	0.06	----
10229	1/4" x 1/4"	1.23	0.68	0.07	----
10230	1/4" x 3/8"	1.18	0.81	0.08	----
10231	1/4" x 1/2"	1.31	0.94	0.06	----
10232	5/16" x 1/8"	1.06	0.56	0.05	----
10233	5/16" x 1/4"	1.28	0.68	0.08	----
10234	3/8" x 1/8"	1.09	0.62	0.08	----
10235L	3/8" x 1/4"	1.25	0.68	0.08	----
10235	3/8" x 1/4"	1.31	0.81	0.08	----
10236L	3/8" x 3/8"	1.25	0.81	0.08	----
10236	3/8" x 3/8"	1.25	0.81	0.10	----
10237L	3/8" x 1/2"	1.31	0.94	0.08	----
10237	3/8" x 1/2"	1.60	1.00	0.16	----
10238	3/8" x 3/4"	1.41	1.18	0.11	----
10239	1/2" x 1/4"	1.37	0.75	0.10	----
10240L	1/2" x 3/8"	1.38	0.81	0.12	----
10240	1/2" x 3/8"	1.50	0.81	0.14	----
10241L	1/2" x 1/2"	1.42	0.94	0.10	----
10241	1/2" x 1/2"	1.75	1.00	0.12	----
10242L	1/2" x 3/4"	1.40	1.10	0.16	----
10242	1/2" x 3/4"	1.60	1.12	0.16	----
10243	5/8" x 3/8"	1.24	0.87	0.12	----
10244L	5/8" x 1/2"	1.51	0.86	0.15	----
10244	5/8" x 1/2"	1.62	0.94	0.12	----
10245	5/8" x 3/4"	1.65	1.12	0.17	----
10246	3/4" x 1/2"	1.74	1.18	0.32	----
10247	3/4" x 3/4"	1.75	1.18	0.22	----
10248	7/8" x 3/4"	1.94	1.31	0.26	----

46 U3

▪ More sizes available.

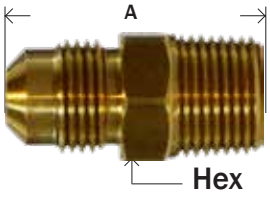
"L" means light pat-

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

MALE ADAPTER



48
248
408

SAE# 010102

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10253	1/8″ x 1/8″	0.92	0.43	0.02	----
10254	3/16″ x 1/8″	1.00	0.43	0.03	----
10255L	1/4″ x 1/8″	1.06	0.43	0.03	----
10255 *	1/4″ x 1/8″	1.06	0.43	0.04	----
10255EH	1/4" x 1/8"	1.06	0.44	0.03	
10256L	1/4″ x 1/4″	1.15	0.56	0.03	----
10256 *	1/4″ x 1/4″	1.25	0.56	0.04	----
10256SS	1/4" x 1/4"				
10257 *	1/4″ x 3/8″	1.31	0.68	0.06	----
10258	1/4″ x 1/2″	1.44	0.87	0.11	----
10259L	5/16″ x 1/8″	1.15	0.50	0.04	----
10259	5/16″ x 1/8″	1.16	0.50	0.04	----
10260L	5/16″ x 1/4″	1.31	0.56	0.06	----
10260	5/16″ x 1/4″	1.34	0.56	0.06	----
10261 *	5/16″ x 3/8″	1.38	0.68	0.08	----
10262	3/8″ x 1/8″	1.25	0.62	0.07	----
10263L	3/8″ x 1/4″	1.31	0.62	0.06	----
10263 *	3/8″ x 1/4″	1.44	0.62	0.08	----
10263SS	3/8" x 1/4"				
10264L	3/8″ x 3/8″	1.37	0.68	0.09	----
10264 *	3/8″ x 3/8″	1.42	0.68	0.09	----
10264SS	3/8" x 3/8"				
10265L	3/8″ x 1/2″	1.44	0.89	0.12	----
10265 *	3/8″ x 1/2″	1.69	0.87	0.14	----
10266	3/8″ x 3/4″	1.81	1.06	0.18	----
10267	1/2″ x 1/4″	1.60	0.75	0.11	----
10268L	1/2″ x 3/8″	1.46	0.75	0.10	----
10268	1/2″ x 3/8″	1.62	0.75	0.12	----
10269L	1/2″ x 1/2″	1.62	0.87	0.13	----
10269	1/2″ x 1/2″	1.79	0.87	0.15	----
10270	1/2″ x 3/4″	1.75	1.06	0.22	----
10271	5/8″ x 1/4″	1.81	0.87	0.14	----
10272L	5/8″ x 3/8″	1.67	0.87	0.14	----
10272	5/8″ x 3/8″	1.81	0.87	0.18	----
10273L	5/8″ x 1/2″	1.80	0.87	0.11	----
10273	5/8″ x 1/2″	2.00	0.87	0.20	----
10274	5/8″ x 3/4″	1.85	1.06	0.21	----
10275	3/4″ x 1/2″	2.19	1.06	0.28	----
10276	3/4″ x 3/4″	2.08	1.06	0.28	----
10277	7/8″ x 1/2″	2.22	1.25	0.52	----
10278	7/8″ x 3/4″	2.35	1.25	0.41	----
10279	1″ x 3/4″	2.44	1.43	0.53	----
10280	1″ x 1″	2.44	1.43	0.53	----

* Available in Stainless Steel. Add SS to the part#

U1 48

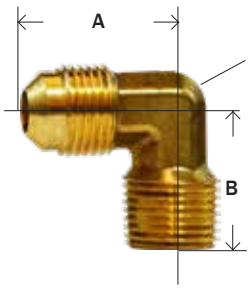
"L" means light pattern.

-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

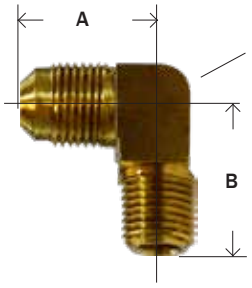
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

49
249
409

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10283	1/8″ x 1/8″	0.63	0.73	0.37	0.04	----
10283B*	1/8″ x 1/8″	0.62	0.69	0.43	0.04	----
10284	3/16″ x 1/8″	0.75	0.75	0.38	0.04	----
10284B*	3/16″ x 1/8″	0.75	0.75	0.43	0.06	----
10285	3/16″ x 1/4″	0.81	0.88	0.44	0.08	----
10286	1/4″ x 1/8″	0.84	0.78	0.38	0.04	----
10286L	1/4″ x 1/8″	0.96	0.80	0.37	0.04	----
10286B*	1/4″ x 1/8″	0.81	0.78	0.47	0.05	----
10287 **	1/4″ x 1/4″	0.81	0.88	0.44	0.05	----
10287B*	1/4″ x 1/4″	0.91	0.93	0.59	0.08	----
10288 **	1/4″ x 3/8″	0.91	0.91	0.47	0.08	----
10289	1/4″ x 1/2″	1.03	1.09	0.59	0.10	----
10290	5/16″ x 1/8″	0.91	0.88	0.44	0.06	----
10290B*	5/16″ x 1/8″	0.91	0.78	0.52	0.06	----
10291	5/16″ x 1/4″	0.98	0.96	0.44	0.08	----
10291B*	5/16″ x 1/4″	0.95	0.92	0.62	0.08	----
10292	5/16″ x 3/8″	1.06	1.09	0.59	0.08	----
10293	3/8″ x 1/8″	1.00	0.91	0.53	0.08	----
10293B*	3/8″ x 1/8″	1.03	0.91	0.65	0.08	----
10294	3/8″ x 1/4″	1.01	0.89	0.48	0.08	----
10294B*	3/8″ x 1/4″	0.97	1.04	0.68	0.11	----
10295 **	3/8″ x 3/8″	1.00	0.88	0.47	0.10	----
10295L	3/8″ x 3/8″	0.95	0.89	0.46	0.11	----
10295B*	3/8″ x 3/8″	1.06	1.09	0.69	0.12	----
10296 **	3/8″ x 1/2″	1.10	1.09	0.59	0.12	----
10297	3/8″ x 3/4″	1.25	1.31	0.81	0.12	----
10298	1/2″ x 1/4″	1.19	1.00	0.59	0.12	----
10298B*	1/2″ x 1/4″	1.22	1.19	0.81	0.12	----
10299	1/2″ x 3/8″	1.10	1.00	0.59	0.13	----
10299B*	1/2″ x 3/8″	1.22	1.12	0.77	0.18	----
10300	1/2″ x 1/2″	1.16	1.13	0.59	0.14	----
10300B*	1/2″ x 1/2″	1.26	1.26	0.94	0.26	----
10301	1/2″ x 3/4″	1.42	1.25	0.81	0.24	----
10311	5/8″ x 1/4″	1.34	1.13	0.72	0.28	----
10302	5/8″ x 3/8″	1.35	1.22	0.72	0.20	----
10302B*	5/8″ x 3/8″	1.41	1.25	0.94	0.20	----
10303	5/8″ x 1/2″	1.35	1.22	0.72	0.20	----
10303L	5/8″ x 1/2″	1.29	1.11	0.70	0.20	----
10303B*	5/8″ x 1/2″	1.41	1.38	0.94	0.20	----
10304	5/8″ x 3/4″	1.44	1.31	0.81	0.25	----
10305	3/4″ x 1/2″	1.67	1.50	0.88	0.34	----
10306	3/4″ x 3/4″	1.67	1.63	0.88	0.30	----
10306B*	3/4″ x 3/4″	1.60	1.62	0.91	0.32	----
10307	7/8″ x 3/4″	1.75	1.68	1.00	0.44	----
10308	1″ x 3/4″	1.94	1.69	1.31	0.75	----
10309	1″ x 1″	1.94	1.75	1.25	0.78	----

* Barstock
** Available in Stainless Steel. Add SS to the part#

Dimension data can change without notice. Please check when dimensions are critical.

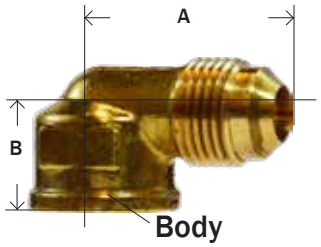
249F 49 E1 149F

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

90° FEMALE ELBOW

SAE# 010203



Forged Elbow



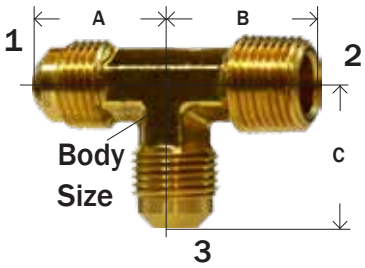
50F
250
500

PART #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10312	3/16″ x 1/8″	0.81	0.44	0.56	0.05	----
10313	1/4″ x 1/8″	0.90	0.46	0.56	0.06	----
10313B*	1/4″ x 1/8″	0.95	0.46	0.56	0.06	----
10314	1/4″ x 1/4″	0.97	0.59	0.75	0.08	----
10314B*	1/4" x 1/4"	0.95	0.66	0.75	0.08	----
10315	1/4″ x 3/8″	1.03	0.57	0.81	0.09	----
10333	1/4″ x 1/2″	1.08	0.66	1.00	0.12	----
10316	5/16″ x 1/8″	0.94	0.88	0.45	0.08	----
10306B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	----
10317	5/16″ x 1/4″	1.03	0.58	0.75	0.06	----
10318	3/8″ x 1/8″	1.00	0.88	0.47	0.10	----
10319	3/8″ x 1/4″	1.06	0.59	0.75	0.09	----
10319B*	3/8″ x 1/4″	1.15	0.73	0.68	0.14	----
10320	3/8″ x 3/8″	1.06	0.57	0.81	0.10	----
10320B*	3/8″ x 3/8″	1.10	0.75	0.82	0.16	----
10321	3/8″ x 1/2″	1.16	0.66	1.00	0.14	----
10321L	3/8″ x 1/2″	1.21	0.42	0.96	0.13	----
10322	3/8″ x 3/4″	1.28	0.72	1.25	0.12	----
10323	1/2″ x 1/4″	1.25	0.70	0.88	0.13	----
10324	1/2″ x 3/8″	1.25	0.70	0.88	0.12	----
10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	----
10325	1/2″ x 1/2″	1.29	0.72	1.00	0.18	----
10325L	1/2″ x 1/2″	1.24	0.71	0.98	0.17	----
10326	1/2″ x 3/4″	1.41	0.72	1.25	0.20	----
10327	5/8″ x 3/8″	1.35	1.22	0.72	0.22	----
10328	5/8″ x 1/2″	1.38	0.75	1.00	0.20	----
10329	5/8″ x 3/4″	1.50	0.76	1.25	0.28	----

* Barstock

E3 50 150F

FORGED MALE RUN TEE



51F
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	AP-PROX. WT. LBS.	LIST PRICE
10361	3/16″ x 5/16″ x 1/8″	0.87	0.78	0.97	0.44	0.08	----
10343	3/16″ x 1/8″	0.75	0.75	0.75	0.37	0.05	----
10344	1/4″ x 1/8″	0.78	0.75	0.78	0.37	0.06	----
10344B*	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	----
10345	1/4″ x 1/4″	0.88	0.88	0.88	0.44	0.08	----
10347	5/16″ x 1/8″	0.88	0.80	0.88	0.44	0.08	----
10348	5/16″ x 1/4″	0.94	0.94	0.94	0.44	0.08	----
10350	3/8″ x 1/4″	1.00	0.94	1.00	0.44	0.12	----
10351	3/8″ x 3/8″	1.00	1.00	1.00	0.47	0.10	----
10340	3/8″ x 1/2″ x 3/8″	1.09	1.09	1.16	0.59	0.18	----
10352	3/8″ x 1/2″	1.12	1.22	1.12	0.69	0.12	----
10353	1/2″ x 3/8″ x 1/2″	1.22	1.22	1.15	0.69	0.22	----
10354	1/2″ x 3/8″	1.16	1.09	1.16	0.59	0.18	----
10355	1/2″ x 1/2″	1.22	1.22	1.22	0.69	0.22	----
10357	5/8″ x 1/2″	1.41	1.31	1.41	0.69	0.28	----
10359	3/4″ x 1/2″	1.63	1.59	1.63	0.88	0.48	----
10360	3/4″ x 3/4″	1.62	1.44	1.62	0.88	0.48	----

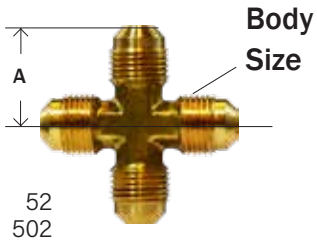
Dimension data can change without notice. Please check when dimensions are critical.

T3 151F 51

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED FLARE CROSS

SAE# 010501

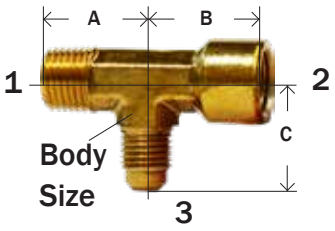


52
502

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4″	0.88	0.44	0.10	----
10374	5/16″	0.92	0.44	0.10	----
10375	3/8″	1.00	0.44	0.16	----
10376	1/2″	1.16	0.59	0.24	----

455 C1 147F 52

FORGED ADAPTER TEE / SERVICE TEE

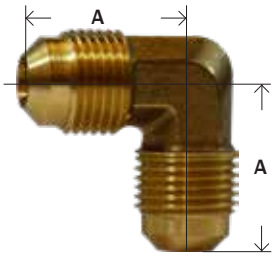


53
503

PART #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10382	1/8″ x 1/8″ x 1/4″	0.72	0.53	0.80	0.47	0.08	----

T17 53

FORGED 90° FLARE ELBOW



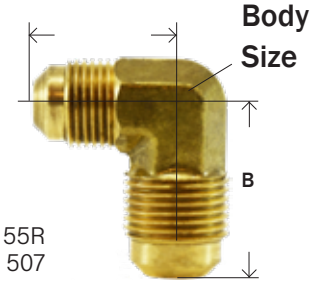
55F
505

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10404	1/8″	0.64	0.04	----
10405	3/16″	0.75	0.06	----
10406	1/4″	0.81	0.08	----
10406B*	1/4"	0.89	0.04	----
10407	5/16″	0.91	0.10	----
10408	3/8″	1.00	0.10	----
10409	1/2″	1.16	0.14	----
10409B*	1/2"	1.23	0.22	----
10410	5/8″	1.41	0.22	----
10411	3/4″	1.66	0.68	----
10412	7/8″	1.81	0.82	----

* Barstock

E2 155F

FORGED REDUCING ELBOW



55R
507

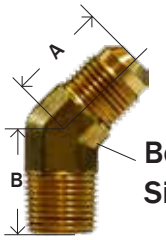
PART #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10416	3/8″ x 1/4″	1.00	0.88	0.47	0.08	----
10419	1/2″ x 3/8″	1.19	1.02	0.59	0.14	----
10421	5/8″ x 1/2″	1.34	1.23	0.72	0.21	----

ER2 657F 55R

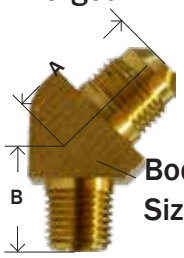
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

45° ELBOW



Forged



54 Barstock
4945
40945

SAE# 010302

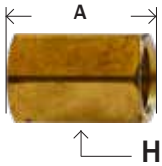
PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	----
10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	----
10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	----
10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	----
10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	----
10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	----
10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	----
10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	----
10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	----
10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	----
10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	----
10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	----
10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	----
10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	----
10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	----

* Barstock

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS

UNION



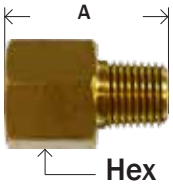
600
600F

SAE# 010107 ▪ Use with Copper Gasket

PART #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10135	1/4"	1.00	0.62	0.06	----
10136	3/8"	1.25	0.81	0.14	----
10137	1/2"	1.43	0.94	0.18	----
10138	5/8"	1.69	1.07	0.24	----
10139	3/4"	2.00	1.31	0.42	----

2310 U4 660HD 32

FEMALE FLARE ADAPTER



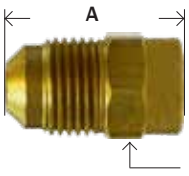
664

SAE# 010106

PART #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10440	1/4" x 1/8"	0.91	0.62	0.05	----
10441	1/4" x 1/4"	1.01	0.62	0.06	----
10442	3/8" x 1/4"	1.28	0.81	0.10	----
10438	3/8" x 1/2"				
10443	1/2" x 3/8"	1.36	0.94	0.14	----
10444	1/2" x 1/2"	1.46	0.94	0.14	----
10439	5/8" x 1/2"				

U5 664FHD 33 48-FF

FLARE REDUCER
SAE# 010105



601

PART #	MALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10462	1/4" x 3/8"	1.22	0.81	0.10	----
10461	1/4" x 1/2"	1.36	0.94	0.14	----
10463 *	3/8" x 1/4"	1.12	0.62	0.06	----
10464	3/8" x 1/2"	1.44	0.94	0.14	----
10473	3/8" x 5/8"	1.63	1.12	0.16	----
10467	1/2" x 3/8"	1.41	0.81	0.13	----
10468	1/2" x 5/8"	1.68	1.06	0.20	----
10469	5/8" x 1/2"	1.63	1.00	0.17	----
10470	5/8" x 3/4"	1.97	1.31	0.31	----

▪ More sizes available

* Available in Stainless Steel. Add SS to the part#

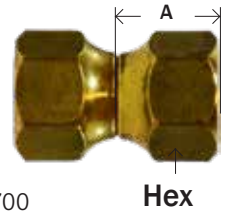
UR3 661FHD 227 46-FF

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE
BRASS FITTINGS

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL
SAE# 010108

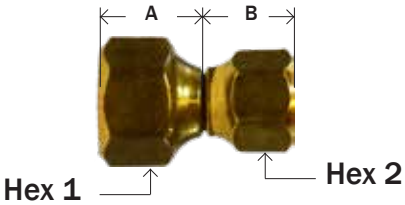


700

PART #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10481	1/4″	0.59	0.62	0.04	----
10482	5/16″	0.62	0.68	0.06	----
10483	3/8″	0.69	0.81	0.10	----
10483L	3/8"	0.63	0.80		----
10484	1/2″	0.81	0.94	0.16	----
10484L	1/2"	0.82	0.92		----
10485	5/8″	0.94	1.06	0.24	----
10486	3/4″	1.12	1.31	0.34	----

1350 US4 14FSV 34

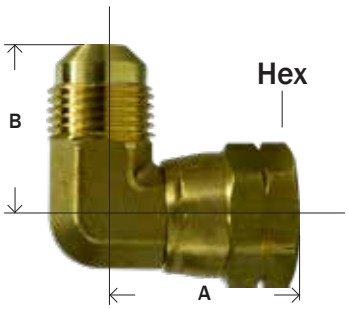
REDUCING SWIVELS



700R

PART #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
10487	3/8″ x 1/4″	0.72	0.60	0.81	0.62	0.08	----
10488	1/2″ x 3/8″	0.84	0.70	0.94	0.81	0.12	----
10489	5/8″ x 1/2″	0.98	0.82	1.03	0.94	0.22	----

FORGED SWIVEL ELBOWS



701

PART #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
10493	1/4″	0.93	0.86	.563	0.12	----
10494	3/8″	1.13	1.1	.75	0.20	----
10495	1/2"	1.29	1.20	.88	0.25	----
10496	5/8"	1.50	1.30	1.00	0.37	----
10497	3/4"	1.83	1.60	1.25	0.54	----

ES4

FLARE SWEAT FITTINGS



PART #	FLARE X SWEAT	LIST PRICE
10600	1/4" x 1/4"	----
10602	1/4" x 3/8"	----
10620	3/8" x 1/4"	----
10612	3/8" x 3/8"	----
10613	3/8" x 1/2"	----
10621	1/2" x 1/2"	----
10611	1/2" x 5/8"	----
10614	5/8" x 5/8"	----
10622	5/8" x 7/8"	----
10615	3/4" x 3/4"	----
10616	3/4" x 7/8"	----
10617	7/8" x 7/8	----
10618	1" x 1-1/8"	----
10619	1-1/8" x 1-1/8"	----

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SPACE HEATER/ GAS RANGE FITTINGS

BRASS FITTINGS

SPACE HEATER FITTINGS

9/16-24 FINE THREAD FLARE NUT

#M-82SH



41FT
800

PART #	SIZE	
14001	3/8	----

MALE ADAPTER

#M-83SH



PART #	SIZE	
14016	3/8 x 3/8	----
14017	3/8 x 1/2	----

FEMALE ADAPTER

#M-80SH



46FT
805

PART #	SIZE	
14018	3/8 x 3/8	----
14025	3/8 x 1/2	----

UNION



PART #	SIZE	
14011	3/8	----

BRASS GAS RANGE FITTINGS

BRASS MALE ADAPTERS 15/16-16 FLARE THREAD

45RG
408RC



PART #	MALE FLARE X MALE NPTF	
35130	3/8" x 3/8"(1/8 Tap)	----
35133	3/8" x 3/8"(1/4 Tap)	----
35131	3/8" x 1/2"(3/8 Tap)	----
35132	1/2" x 1/2" (3/8" FIP TAP)	----
35134	15/16" x 1/2"	----
35135	15/16" x 3/4" (1/2" FIP TAP)	----

BRASS FEMALE ADAPTERS



PART #	FLARE X FIP	
35136	15/16" x 1/2"	----
35142	15/16" x 3/4"	----

DRUM ADAPTERS

K1



- Straight Thread

SAE# 010165

PART #	MALE FLARE X FIP	
50011	1/4" x 1/2"	----
50001	1/4" x 3/4"	----

RD IF K1

CAP



PART #	SIZE	
35186	15/16"	----

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TEE CONNECTION

2000



PART #	PIPE SIZE	
34001	1/4" Inverted flare x 1/4" MPT	----

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A

1/4 NPT



PART #	DESCRIPTION	
34011	2.34 w/ wrench Flats	----

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B



PART #	PIPE SIZE	
34016	.880-14 LH	----

2001B

TAILPIECE & NUT ASSEMBLY

2002AB



PART #	PIPE SIZE	
34022	1/4	----

2002AB

POL CAP

2004



PART #	PIPE SIZE	
34031	.880-14LH	----

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014



PART #	DESCRIPTION	
34141	POL PLUG WITH CHAIN	----

ME1691-1

SINGLE PIECE POL ADPATER

2008



PART #	DESCRIPTION	
34130	MALE POL X 1/4 FPT	----
34131	MALE POL X 1/2 FPT	----

ME351 ME357

ADAPTERS

35792
35810



PART #	PIPE SIZE	
34041	3/8 Flare x .880-14LH	----
34046	1/2 Flare x .880-14LH	----
34051	5/8 Flare x .880-14LH	----

ME3510 2906E 2007

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POL FITTINGS
BRASS FITTINGS

TAILPIECE ASSEMBLY W/HEX HEAD NUT & STEM



PART #	LENGTH	
34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL	----
34082	MALE POL X 3/8 NPT	----

2906D ME352



PART #	LENGTH	
34088	MPOL HARD NOSE 9/16-18 FE LH THREAD	----

ME1650



PART #	LENGTH	
34084	MPOL X 1/4 HOSE BARB 7/8 HEX	----

ME5930 970JR

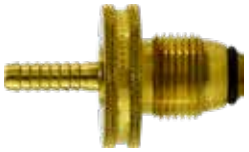
SOFT NOSE TAILPIECE ASSEMBLY



PART #	LENGTH	
34060	1/4 NPT X POL 2.1 LONG #60 ORIFICE	----
34061	1/4 MPT X POL SOFT NOSE 2-1/2	----
34062	1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG	----
34063	POL X 9/16-18 LH TAIL-PIECE SOFT NOSE	----
34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG	----

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

HAND WHEEL POL ADAPTERS



PART #	LENGTH	
34065	MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL	----

ME1656AR



PART #	LENGTH	
34072	1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL	----

ME1654



PART #	LENGTH	
34073	1/4 MPT POL SOFT NOSE WITH BRASS WHEEL	----

ME1654AR



PART #	LENGTH	
34074	MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL	----

ME1656

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POL FITTINGS
BRASS FITTINGS

PROPANE MOTOR FUEL FILL ADAPTER



- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

PART #	LENGTH	
34079	FE POL X 1 3/4 ACME FUEL FILL ADPT	----

ME458 2017

FEMALE POL X MIP ADAPTER



PART #	LENGTH	
34111	1/4 MPT X FE POL ADAPTER	----
34112	3/8 MPT X FE POL ADAPTER	----
34113	1/2 MPT X FE POL ADAPTER	----
34114	3/4 MPT X FE POL ADAPTER	----

2011-B ME285 2011-D 2011-E

FEMALE FPT X FEMALE POL ADAPTER



PART #	LENGTH	
34120	1/4 FPT X FE POL	----
34121	3/8 FPT X FE POL	----
34122	1/2 FPT X FE POL	----
34123	3/4 FPT X FE POL	----

2016-B ME302 2016-D ME304

POL O-RING ONLY



PART #	LENGTH	
34143	POL O-RING ONLY	----

C5-OR-POL 568-110-01

POL PLASTIC DUST PLUG



PART #	LENGTH	
34160	POL PLASTIC DUST PLUG	----

ME970P

APPLIANCE TEE



- Tap & Add

PART #	LENGTH	
34170	M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR	----

2090



- Add an appliance

PART #	LENGTH	
34172	M.POLXF. POL W/1-20 MALE CYLINDER THREAD	----

2012



- With QCC1 connection

PART #	LENGTH	
34174	QCC1 X F. POL W/1-20 MALE CYLINDER THD	----

2013

DUAL APPLIANCE TEE



PART #	LENGTH	
34176	M.POL X (2) OF 1-20 MALE CYLINDER THREAD	----

2099

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JIC 37° FLARE STRAIGHTS

BRASS FITTINGS

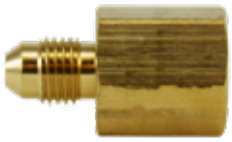
STRAIGHT TUBE UNION



PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	
28966	1/4	7/16-20	1.35	0.49	3250 psi	----
28969	3/8	9/16-18	1.41	0.63	3250 psi	----
28970	1/2	3/4-16	1.62	0.81	3250 psi	----
28971	3/4	1-1/16-12	2.14	1.13	3250 psi	----
28972	1"	1-5/16-12	2.25	1.38	2600 psi	----

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER



PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	
28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	----
28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	----
28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	----
28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	----
28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	----
28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	----
28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	----
28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	----

STRAIGHT



PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	
28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	----
28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	----
28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	----
28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	----
28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	----
28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	----
28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	----
28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	----
28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	----
28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	----
28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	----
28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	----
28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	----
28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	----
28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	----
28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	----
28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	----
28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	----
28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	----
28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	----
28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	----

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER



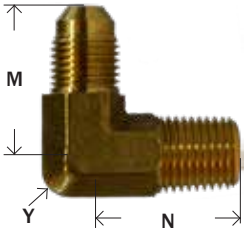
PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	----
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	----
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	----
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	----

B6505 SJS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

S/B JIC 37° SHAPES
BRASS FITTINGS

90°FORGED ELBOW

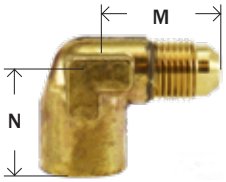


▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	
28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	----
28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	----
28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	----
28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	----
28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	----
28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	----
28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 psi	----
28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	----
28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	----
28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	----
28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	----
28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi	----
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	----
28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi	----
28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi	----

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

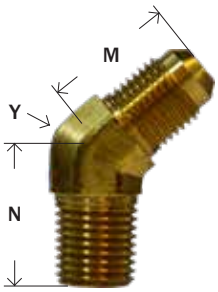
FEMALE ELBOW FORGED BODY



PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE	
28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi	----
28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi	----
28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi	----

B2502 EBF DTXB

45° FORGED ELBOW



▪ Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	
28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi	----
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	----
28728F	5/16	1/2-2	1/4-18	0.88	0.86	0.54		
28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 psi	----
28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	----
28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	----
28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 psi	----
28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	----
28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	----
28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88		
28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	----

B2503 FBC-F VTXB

THREAD CHART

SIZE	JIC THREAD
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
1	1-5/16-12

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE FITTINGS



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

▪Typical Application
Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

▪Working Pressure Ranges
Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73^{0}F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

▪Vibration
Excellent resistance.

▪Temperature Range
-65^{0}F to +250^{0}F (-53^{0}C to +121^{0}C) range at maximum operating pressures.

▪Used With
Copper, brass, aluminum and steel hydraulic tubing that can be flared.

▪Advantages
Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends. Steel or brass tube nut.

▪ Tolerance
+/- .03 on all dimensions.

▪Conformance
Meets specifications and standards of ASA, ASME, SAE and MS (Military Standards).

▪Assembly Instructions
1-Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.
2- Slide nut on tube. Threaded end "A" of nut must face out.
3- Flare end of tube with a 45^0 flaring tool.
a- Measure flare diameter.
b- Examine flare for excessive thin out.
c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.
4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

STANDARD METRIC THREADS

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8?	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads

5/16"-28 2800 PSI	3/8"-24 1900 PSI	7/16"-24 1400 PSI	1/2"-20 1200 PSI	5/8"-18 1000 PSI	3/4"-18 750 PSI	7/8"-18 650 PSI	1-1/16"-16 550 PSI
1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"

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INVERTED FLARE
BRASS FITTINGS

ZINC CHROMATE STEEL NUT

SAE# 040110



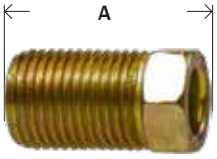
41IFS
41INS

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	
12001	1/8″	5/16-28	0.52	0.31	0.01	----
12002	3/16″	3/8-24	0.56	0.37	0.02	----
12018	3/16"	7/16-24	0.56	0.43	0.02	----
12003	1/4″	7/16-24	0.56	0.43	0.02	----
12004	5/16″	1/2-20	0.62	0.50	0.02	----
12005	3/8″	5/8-18	0.66	0.62	0.03	----
12000	7/16″	11/16-18	0.68	0.68	0.04	----
12011	3/8"	11/16-18	0.66	0.68	0.05	----
12006	1/2″	3/4-18	0.74	0.75	0.08	----
12007	5/8″	7/8-18	0.80	0.87	0.10	----
12008	3/4″	1-1/16-16	0.88	1.06	0.10	----
12083	7/8"	1-3/16-16	1.07	1.19	0.14	----
12084	1"	1-5/16-16	1.18	1.375	0.21	----

121XXX 2105 411FS 105 41W

LONG STEEL NUT

FOR DOMESTIC LINES



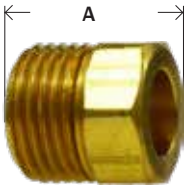
411NL

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
12009	3/16″	0.84	0.37	0.02	----
12010	1/4″	0.81	0.43	0.02	----

7896

INVERTED FLARE BRASS NUT

SAE# 040110



411FB
41INB

• More sizes available

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
12012	1/8″	0.52	0.31	0.01	----
12013	3/16″	0.56	0.37	0.01	----
12014	1/4″	0.56	0.43	0.02	----
12015	5/16″	0.62	0.50	0.03	----
12016	3/8″	0.66	0.62	0.04	----
12017	1/2″	0.74	0.75	0.05	----

2100 41IF 100 41IB



PART #	TUBESIZE	THREAD	REF#	
12260	3/16 British	3/8-24 Bubble	---	----
12261	3/16 European	M10 x 1.0 Bubble	276110	----
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	----
12263	3/16 Domestic	1/2 x 20 Inv.	---	----
12264	3/16 Domestic	9/16 - 18 Inv.	121039	----
12265	3/16 Imported	M11 x 1.5 Bubble	276011	----
12266	3/16 Imported	M12 x 1.0 Bubble	276012	----
12267	3/16 Imported	M13 x 1.5 Bubble	276013	----
12268	1/4 Domestic	9/16 x 18 Inv.	121049	----
12269	1/4 Domestic	1/2 x 20 Inv.	121045	----
12270	6mm Imported	M12 x 1.0 Bubble		----
12271	6mm GM	M12 x 1.0 Bubble		----
12272	6mm GM	M12 x 1.5 Bubble		----
12273	6mm GM	M14 x 1.5 Bubble		----
12274	5/16 Domestic	M14 x 1.5 Surface Seal	121069	----
12275	3/8 Domestic	M16 x 1.5 Surface Seal	121070	----

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INVERTED FLARE
BRASS FITTINGS

UNION INTERNAL

SAE# 040101



421F
421N

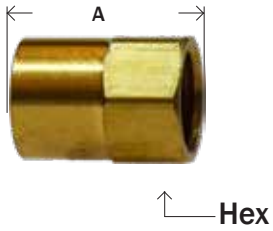
PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	
12022	1/8″	0.59	0.40	0.02	----
12023	3/16″	0.62	0.43	0.02	----
12024	1/4″	0.62	0.50	0.03	----
12025	5/16″	0.70	0.56	0.04	----
12026	3/8″	0.80	0.75	0.08	----
12027	1/2″	0.91	0.90	0.10	----
12028	5/8"	1.31	1.06	0.22	----

see page 72 for metric unions

302 2300 42IFHD

FEMALE ADAPTER

SAE# 040103



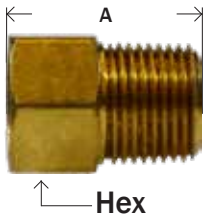
46IN
46IN

PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
12029	1/8" x 1/8"	0.716	0.50	0.03	----
12032	3/16″ x 1/8″	0.75	0.50	0.02	----
12033	1/4″ x 1/8″	0.75	0.53	0.02	----
12030	1/4" x 1/4"	1.01	0.751	0.11	----
12034	5/16″ x 1/8″	0.78	0.59	0.04	----
12035	3/8″ x 1/4″	1.03	0.75	0.08	----
12031	7/16" x 1/4"	1.06	0.81	0.11	----
12037	1/2" x 1/4"	1.09	0.90	0.12	----
12036	1/2″ x 3/8″	1.10	0.90	0.12	----
12039	5/8" x 1/2"	1.32	1.065	0.19	----
12099	3/4" x 3/4"	1.50	1.25	0.36	----

46IFHD 252 46W

MALE ADAPTER

SAE# 040102



481N
481F

PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
12041	1/8″ x 1/8″	0.63	0.40	0.02	----
12042	3/16″ x 1/8″	0.70	0.43	0.02	----
12053	3/16" x 1/4"	0.72	0.56	0.04	----
12043	1/4″ x 1/8″	0.74	0.50	0.03	----
12044	1/4″ x 1/4″	0.89	0.56	0.04	----
12045	5/16″ x 1/8″	0.79	0.56	0.03	----
12046	5/16″ x 1/4″	0.98	0.56	0.05	----
12055	5/16" x 3/8"	1.01	0.75	0.07	----
12047	3/8″ x 1/8″	0.88	0.72	0.05	----
12048	3/8″ x 1/4″	1.02	0.75	0.06	----
12049	3/8″ x 3/8″	1.02	0.75	0.08	----
12104	7/16" x 1/4"	1.05	0.81	0.06	----
12038	1/2″ x 1/4″	0.97	0.87	0.10	----
12050	1/2″ x 3/8″	1.06	0.87	0.08	----
12051	1/2″ x 1/2″	1.06	0.87	0.11	----
12052	5/8″ x 1/2″	1.32	1.06	0.15	----
12105	3/4" x 1/2"	1.38	1.25	0.18	----
12040	3/4″ x 3/4″	1.39	1.25	0.24	----
12107	7/8" x 3/4"	1.375	1.375	0.21	----
12108	1" x 1"	1.62	1.50	0.37	----

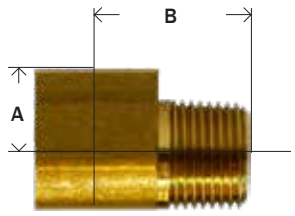
2200 48IFHD 202 48W 200

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ELBOW

SAE# 040202



491N
491F

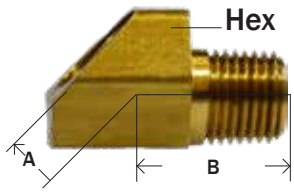
PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	
12057	1/8″ x 1/8″	0.26	0.59	0.03	----
12058	3/16″ x 1/8″	0.26	0.61	0.03	----
12059	1/4″ x 1/8″	0.33	0.65	0.04	----
12054*	1/4″ x 1/8″	0.33	0.65	0.04	----
12060	1/4″ x 1/4″	0.28	0.82	0.06	----
12061	5/16″ x 1/8″	0.47	0.68	0.05	----
12062	5/16″ x 1/4″	0.45	0.85	0.08	----
12082	5/16" x 3/8"	0.47	0.86	0.12	----
12063	3/8″ x 1/8″	0.54	0.76	0.14	----
12064	3/8″ x 1/4″	0.53	0.92	0.14	----
12065	3/8″ x 3/8″	0.50	0.94	0.12	----
12114	1/2" x 1/4"	0.72	1.08	0.14	----
12066	1/2″ x 3/8″	0.59	1.03	0.16	----
12067	1/2″ x 1/2″	0.66	1.22	0.25	----
12056	5/8″ x 3/8″	0.67	1.09	0.20	----
12068	5/8″ x 1/2″	0.67	1.29	0.18	----
12069	3/4″ x 1/2″	0.80	1.39	0.42	----
12080	7/8″ x 3/4″	0.94	1.43	0.48	----
12081	1″ x 1″	1.02	1.69	0.60	----

400 2400 249IFHD 402 249IF 49W

*** Restricted pipe end .062**

45° ELBOW

SAE# 040302



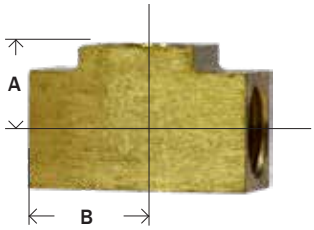
591F
941N

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	----
12072	3/16″ x 1/8″	0.25	0.55	0.53	0.02	----
12073	1/4″ x 1/8″	0.27	0.58	0.56	0.04	----
12074	5/16″ x 1/8″	0.36	0.56	0.62	0.06	----
12075	5/16″ x 1/4″	0.23	0.83	0.62	0.06	----
12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	----
12076	3/8″ x 1/4″	0.51	0.84	0.78	0.09	----
12077	1/2″ x 3/8″	0.38	0.91	0.84	0.11	----
12079	5/8″ x 1/2″	0.44	1.00	1.06	0.21	----

154 2352 259IFHD 352 94W

UNION TEE

SAE# 040401



441F
441N

PART #	SIZE	A	B	APPROX. WT. LBS.	
12085	1/8″	0.33	0.47	0.04	----
12086	3/16″	0.39	0.55	0.04	----
12087	1/4″	0.42	0.56	0.08	----
12088	5/16″	0.45	0.63	0.09	----
12089	3/8″	0.56	0.74	0.17	----
12090	1/2″	0.67	0.88	0.24	----

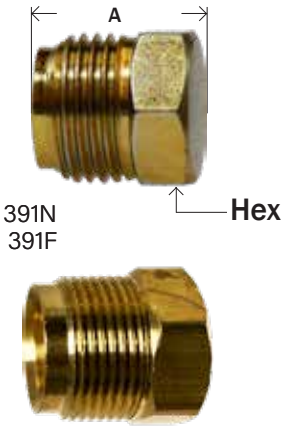
244IFHD 702 44I

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

STEEL PLUG

SAE# 040109 ▪ **cored**



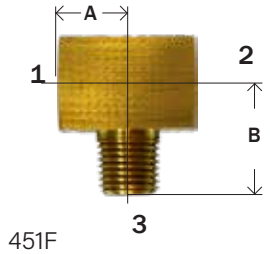
391N
391F

PART # STEEL	SIZE	A	HEX	APPROX. WT. LBS.	
12091	3/16″	0.53	0.37	0.01	----
12092	1/4″	0.54	0.43	0.02	----
12093	5/16″	0.59	0.50	0.03	----
12094	3/8″	0.66	0.62	0.04	----
Brass					
12095	3/8"	0.66	0.63	0.04	----
12096	1/2"	0.82	0.75	0.07	----
12097	5/8"	0.90	0.87	0.10	----
12098	3/4"	0.95	1.07	0.17	----

106 41IP 131 2131

MALE BRANCH TEE

SAE# 040425



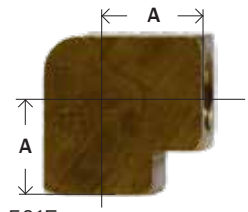
451F
451N

PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
12100	3/16″ x 1/8″	0.41	0.60	0.04	----
12101	1/4″ x 1/8″	0.42	0.64	0.06	----
12102	5/16″ x 1/8″	0.47	0.68	0.07	----
12103	3/8″ x 1/4″	0.58	0.93	0.15	----

145 245IFHD 602 2600 600

FEMALE ELBOW

SAE# 040203



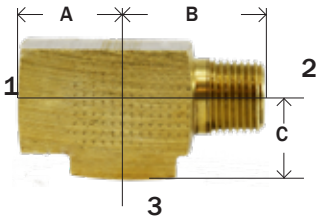
501F
501N

PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	
12110	1/4″ x 1/8″	0.55	0.07	----
12111	5/16″ x 1/8″	0.51	0.08	----
12112	3/8″ x 1/4″	0.68	0.10	----

450

MALE RUN TEE

SAE# 040424



51IF
511N

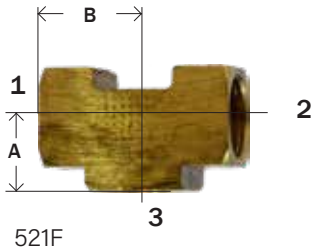
PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	
12118	3/16″ x 1/8″	0.53	0.72	0.39	0.06	----
12119	1/4″ x 1/8″	0.56	0.75	0.42	0.08	----
12120	5/16″ x 1/8″	0.62	0.85	0.45	0.10	----
12121	3/8″ x 1/4″	0.75	1.08	0.56	0.14	----

251IFHD 752 550 151

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE BRANCH TEE

SAE# 040427

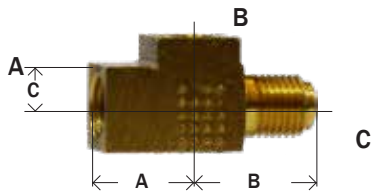


521F
521N

PART #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
12127	3/16″ x 1/8″	0.39	0.55	0.06	----
12129	5/16″ x 1/8″	0.45	0.63	0.12	----
12130	3/8″ x 1/4″	0.56	0.74	0.17	----

252IFHD 652 136

TOWED TRAILER BRAKE TEE

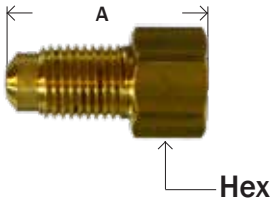


127BT

PART #	A	B	C	REFERENCE #	APPROX. WT. LBS.	
12147	3/16″ 0.57	3/16″ 0.76	3/16″ 0.42	7900	0.08	----
12145	3/16″ (1/2-20) 0.68	3/16″ (3/8-24) 0.94	3/16″ (1/2-20) 0.47	7906	0.17	----
12148	3/16″ (9/16-18)	3/16″ (3/8-24)	3/16″ (9/16/18)	7933	0.10	----
12144	3/16″ (9/16-20) 0.82	3/16″ (3/8-24) 0.94	3/16″ (9/16-20) 0.47	7905	0.18	----
12146	3/16″ (7/16-24) 0.54	3/16″ (3/8-24) 0.78	1/4″ (7/16-24) 0.42	7914	0.08	----
12150	1/4″ 0.56	3/16″ 0.77	1/4″ 0.43	7901	0.10	----
12149	1/4″ (9/16-18) 0.81	3/16″ (3/8-24) 0.93	1/4″ (9/16-18) 0.50	7904	0.10	----
12151	1/4″ 0.56	1/4″ 0.77	1/4″ 0.43	7898	0.12	----

INVERTED FLARE AUTO FITTINGS

DUAL MASTER CYLINDER ADAPTER

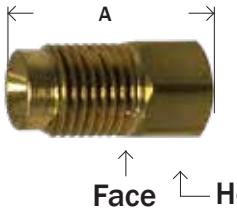


PART #	MALE FLARE X FEMALE INV.	A	HEX	REFERENCE #	APPROX. WT. LBS.	
12200	3/16″ x 3/16″	1.00	0.50	1441	0.03	----
12202	5/16″ x 3/16″	0.96	0.68	7897	0.07	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

DUAL MASTER CYLINDER ADAPTER



*** Seals on hex face**

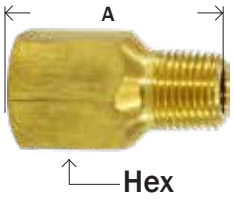


48STA
6641N
6011N

PART #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#	
12206	3/16(9/16-18)	3/16	7911	----
12209	3/16(9/16-18)	3/16(1/2-20)	7913	----
12207	3/16(9/16-20)	3/16	7910	----
12210	3/16	1/4	7828	----
12212	1/4	3/16	7818	----
12214*	7/16-20	1/4	7732	----
12211	1/4(9/16-18)	1/4	7908	----
12215	1/4	5/16	7917	----
12213*	5/16	3/16	7817	----
12216	5/16	3/16	7909	----
12208	5/16	3/16(9/16-18)	7912	----
12218*	5/16	1/4	7727	----
12220	5/16	1/4	7829	----
12222*	5/16	5/16	1074	----
12221	5/16	3/8	7915	----
12224	3/8" NPTF	5/16	7771	----
12217	3/8	5/16	7916	----

47W

CARBURETOR TO FUEL LINE ADAPTER - FORD

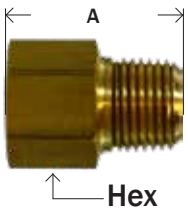


PART #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.	
12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04	----

1513

RESTRICTION PIPE ADAPTER

(.0625 ORIFICE)



PART #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.	
12310	1/8"	0.75	0.50	1512	0.02	----

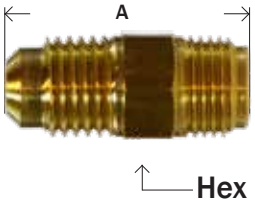
1510

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE
BRASS FITTINGS

SAE FLARE X INVERTED FLARE

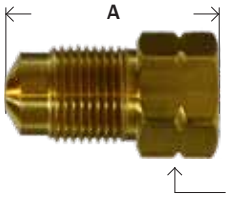


PART #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.	
12250	1/4" x 3/16"	1.03	0.43	1518	0.02	----
12252	1/4" x 1/4"	1.03	0.43	1522	0.03	----
12254	3/8" x 5/16"	1.34	0.63	1553	0.08	----
12256	3/8" x 3/8"	1.37	0.63	1563	0.09	----
12257	3/8" x 7/16"	1.40	0.68	1554	0.10	----

4205

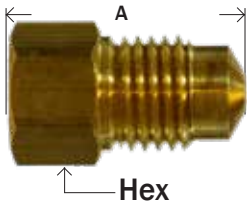
METRIC HYDRAULIC BRAKE FITTINGS

METRIC ADAPTER



PART #	BUBBLE MALE THREAD	TUBE O.D./ FEMALE THREAD	A	HEX	REF #	APPROX. WT. LBS.	
12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02	----
12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02	----
12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04	----
12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06	----

ADAPTER STANDARD TO METRIC BUBBLE



PART #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.	
12336	3/16" (3/8-24)	11x1.5			7973		----
12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02	----
12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04	----
12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04	----

FEMALE X MALE ADAPTERS



PART #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATERIAL	
12330	3/8-24 (3/16)	7/16-20	Steel	----

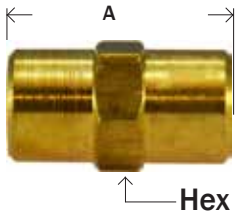


PART #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #	
12205	3/16 (3/8-24)	M10 x 1.0	1443	----



PART #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATERIAL	
12329	3/8-24 (3/16)	M9 x 1.0	Steel	----

METRIC UNION



PART #	SIZE	A	HEX	REF #	APPROX. WT. LBS.	
12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03	----
12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04	----
12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04	----
12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION FITTINGS



These are NOT Lead Free
See pages 164-166 for Lead Free products

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
Working Pressure	400	400	300	300	200	200	200	150	100	75

▪ Typical Application
Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

▪Pressure
See table above for working pressures at 73°F.

▪Vibration
Fair resistance - use long nut when greater vibration resistance is needed.

▪Temperature Range
-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures. (Refer to tubing temperature range.)

▪Used With
Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪ Conformance
Meets specifications and standards of ASA, ASME and SAE.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
4- Lubricate threads and assemble nut to fitting body.
5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

▪ "L" at the end of a Part# means Light Pattern
-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

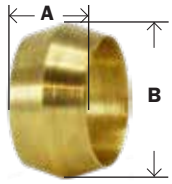
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Actual Profile of Compression Threads



COMPRESSION
BRASS FITTINGS

BRASS SLEEVE
• FERRULES

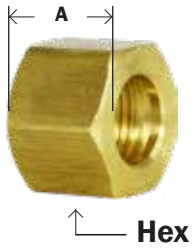


60

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.	
18001	1/8″	0.19	0.19	0.01	----
18002	3/16″	0.22	0.27	0.01	----
18003	1/4″	0.25	0.34	0.01	----
18004	5/16″	0.25	0.41	0.01	----
18005	3/8″	0.25	0.47	0.02	----
18006	7/16″	0.31	0.53	0.02	----
18007	1/2″	0.38	0.59	0.02	----
18008	5/8″	0.38	0.71	0.03	----
18009	3/4″	0.44	0.87	0.03	----
18010	7/8″	0.41	0.99	0.03	----
18011	1"	0.55	1.16	0.03	----

BRASS NUT

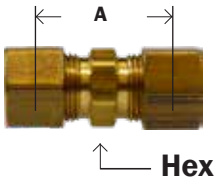


61

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	
18033	1/8″	5/16-24	0.38	0.37	0.01	----
18034	3/16″	3/8-24	0.41	0.43	0.01	----
18035L	1/4″	7/16-24	0.44	0.50	0.02	
18035	1/4″	7/16-24	0.44	0.50	0.02	----
18036	5/16″	1/2-24	0.44	0.56	0.02	----
18037L	3/8″	9/16-24	0.47	0.62	0.04	
18037	3/8″	9/16-24	0.47	0.62	0.04	----
18038	7/16″	5/8-24	0.50	0.68	0.04	----
18039L	1/2″	11/16-20	0.56	0.75	0.04	
18039	1/2″	11/16-20	0.62	0.81	0.04	----
18040L	5/8″	13/16-18	0.56	0.87	0.06	
18040	5/8″	13/16-18	0.62	0.94	0.06	----
18041	3/4″	1-18	0.68	1.12	0.08	----
18042	7/8″	1-1/8 - 18	0.62	1.25	0.10	----
18043	1"		0.94	1.38	0.15	----

UNION



62
262

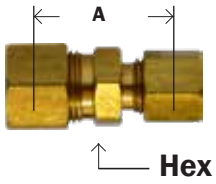
SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18062	1/8″	0.64	0.31	0.03	----
18063	3/16″	0.75	0.37	0.04	----
18064L	1/4″	0.79	0.43	0.06	----
18064	1/4″	0.81	0.43	0.06	----
18065	5/16″	0.88	0.50	0.06	----
18066L	3/8″	0.96	0.56	0.09	----
18066	3/8″	0.98	0.56	0.10	----
18067	7/16″	1.02	0.62	0.12	----
18068L	1/2″	1.06	0.68	0.16	----
18068	1/2″	1.25	0.68	0.16	----
18069L	5/8″	1.43	0.81	0.24	----
18069	5/8″	1.25	0.81	0.26	----
18070	3/4″	1.41	1.00	0.35	----
18071L	7/8″	1.03	1.12	0.34	----
18071	7/8″	1.00	1.12	0.36	----
18072	1"	1.78	1.38	0.58	----

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COMPRESSION
BRASS FITTINGS

REDUCING UNION



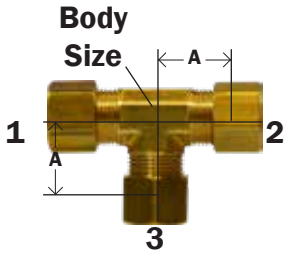
62R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18076	1/4" x 1/8"	0.73	0.44	0.04	----
18077	1/4" x 3/16"	0.78	0.44	0.06	----
18078	5/16" x 1/4"	0.81	0.50	0.06	----
18079	3/8" x 1/4"	0.90	0.56	0.10	----
18080	3/8" x 5/16"	0.94	0.56	0.10	----
18081	1/2" x 3/8"	1.03	0.68	0.12	----
18082	5/8" x 3/8"	1.03	0.81	0.15	----
18083	5/8" x 1/2"	1.16	0.81	0.18	----
18085	7/8" x 3/8"	1.18	1.18	0.26	----
18086	7/8" x 1/2"	1.21	1.18	0.24	----
18084	7/8" x 5/8"	1.23	1.18	0.20	----

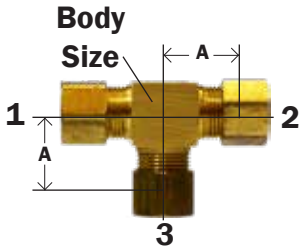
62-R

TEE

SAE# 060401



Forged



Barstock

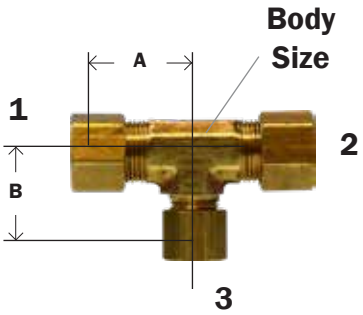
64

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	
18101	1/8"	0.61	0.37	0.04	----
18101B*	1/8"	0.62	0.33	0.04	----
18102	3/16"	0.59	0.36	0.08	----
18102B*	3/16"	0.60	0.38	0.08	----
18103	1/4"	0.63	0.36	0.10	----
18103B*	1/4"	0.62	0.49	0.10	----
18104	5/16"	0.72	0.50	0.13	----
18104B*	5/16"	0.60	0.50	0.14	----
18105	3/8"	0.75	0.50	0.16	----
18105B*	3/8"	0.73	0.59	0.16	----
18106	1/2"	0.94	0.59	0.22	----
18106B*	1/2"	0.94	0.69	0.24	----
18107	5/8"	1.06	0.69	0.28	----
18108	3/4"	1.22	0.88	0.32	----
18109	7/8"	1.25	0.94	0.34	----

* Barstock

64 **264C**

FORGED REDUCING TEE



64R

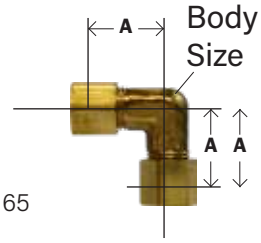
PART #	SIZE 1 X 2 X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
18114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09	----
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	----
18111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12	----
18115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	----
18116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	----
18117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	----
18118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	----
18119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	----

64-R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

UNION ELBOW **SAE# 060201**



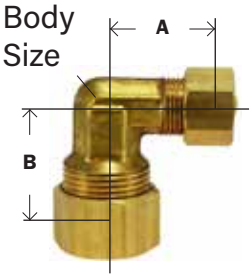
65

Forged Barstock

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	
18122B*	1/8″	0.62	0.35	0.04	----
18123	3/16″	0.61	0.37	0.06	----
18124	1/4″	0.66	0.38	0.08	----
18125	5/16″	0.69	0.47	0.09	----
18126	3/8″	0.72	0.43	0.12	----
18127	1/2″	0.94	0.59	0.19	----
18128	5/8″	1.06	0.72	0.26	----
18129	3/4″	1.19	0.94	0.48	----
18130	7/8″	1.25	0.94	0.44	----

65 **BSE2** 165C **265C**

REDUCING ELBOW - FORGED

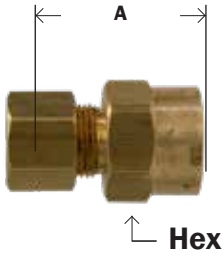


65R

PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.	
18135	3/8″ x 1/4″	0.69	0.75	0.47	0.12	----
18136	1/2″ x 3/8″	0.88	0.94	0.59	0.15	----
18137	5/8″ x 3/8″	0.88	0.97	0.56	0.18	----

65-R

FEMALE ADAPTER
SAE# 060103



66

PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
18142	1/8″ x 1/8″	0.75	0.56	0.02	----
18143	3/16″ x 1/8″	0.78	0.56	0.04	----
18144	3/16″ x 1/4″	0.96	0.68	0.04	----
18145L	1/4″ x 1/8″	0.84	0.50	0.05	
18145	1/4″ x 1/8″	0.78	0.56	0.05	----
18146L	1/4″ x 1/4″	0.88	0.62	0.09	
18146	1/4″ x 1/4″	1.03	0.68	0.09	----
18148	1/4″ x 1/2″	1.02	0.87	0.12	----
18149	5/16″ x 1/8″	0.81	0.56	0.05	----
18150	5/16″ x 1/4″	0.91	0.62	0.06	----
18152	3/8″ x 1/8″	0.88	0.56	0.06	----
18153L	3/8″ x 1/4″	0.97	0.62	0.08	
18153	3/8″ x 1/4″	1.06	0.68	0.08	----
18154L	3/8″ x 3/8″	1.03	0.75	0.08	
18154	3/8″ x 3/8″	1.06	0.81	0.10	----
18155	3/8″ x 1/2″	1.12	1.00	0.08	----
18156	3/8″ x 3/4″	1.19	1.16	0.14	----
18157	1/2″ x 1/4″	1.09	0.68	0.10	----
18158L	1/2″ x 3/8″	0.94	0.81	0.12	
18158	1/2″ x 3/8″	1.12	0.81	0.12	----
18159L	1/2″ x 1/2″	1.19	1.00	0.12	
18159	1/2″ x 1/2″	1.31	1.00	0.12	----
18160	1/2″ x 3/4″	1.25	1.16	0.18	----
18162L	5/8″ x 1/2″	1.20	0.94	0.18	
18162	5/8″ x 1/2″	1.38	1.00	0.18	----
18163	5/8″ x 3/4″	1.20	1.12	0.22	----
18164	3/4″ x 1/2″	1.25	1.06	0.26	----
18165	3/4″ x 3/4″	1.28	1.19	0.28	----
18167	7/8″ x 1/2″	1.28	1.19	0.32	----
18166	7/8″ x 3/4″	1.31	1.12	0.34	----

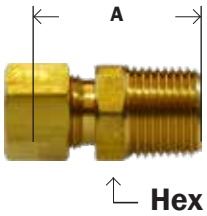
▪ More sizes available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

MALE ADAPTER

SAE# 060102



68

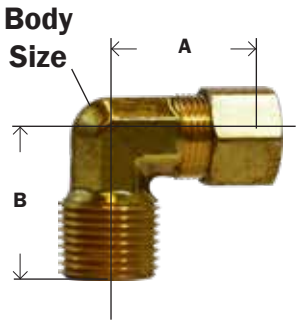
PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18175	1/8″ x 1/16″	0.78	0.37	0.02	----
18176	1/8″ x 1/8″	0.78	0.43	0.04	----
18177	3/16″ x 1/8″	0.84	0.43	0.04	----
18178	3/16″ x 1/4″	0.94	0.56	0.06	----
18179L	1/4″ x 1/8″	0.88	0.56	0.04	
18179	1/4″ x 1/8″	0.88	0.43	0.04	----
18180L	1/4″ x 1/4″	0.94	0.56	0.05	
18180	1/4″ x 1/4″	1.06	0.56	0.06	----
18181	1/4″ x 3/8″	1.03	0.68	0.08	----
18182	1/4″ x 1/2″	1.09	0.81	0.10	----
18183	5/16″ x 1/8″	0.91	0.50	0.05	----
18184L	5/16″ x 1/4″	1.01	0.56	0.06	
18184	5/16″ x 1/4″	1.09	0.56	0.06	----
18185	5/16″ x 3/8″	1.06	0.68	0.07	----
18186	5/16″ x 1/2″	1.14	0.87	0.10	----
18187L	3/8″ x 1/8″	0.94	0.56	0.06	
18187	3/8″ x 1/8″	0.97	0.56	0.06	----
18188L	3/8″ x 1/4″	1.03	0.56	0.06	
18188	3/8″ x 1/4″	1.16	0.56	0.07	----
18189L	3/8″ x 3/8″	1.09	0.68	0.08	
18189	3/8″ x 3/8″	1.14	0.69	0.08	----
18190L	3/8″ x 1/2″	1.19	0.88	0.12	
18190	3/8″ x 1/2″	1.34	0.87	0.13	----
18191	3/8″ x 3/4″	1.29	1.06	0.16	----
18192	7/16″ x 1/4″	1.06	0.62	0.10	----
18204	7/16″ x 3/8″	1.10	0.68	0.12	----
18193L	1/2″ x 1/4″	1.09	0.69	0.11	
18193	1/2″ x 1/4″	1.22	0.68	0.11	----
18194L	1/2″ x 3/8″	1.16	0.68	0.12	
18194	1/2″ x 3/8″	1.16	0.69	0.12	----
18195L	1/2″ x 1/2″	1.09	0.81	0.12	
18195	1/2″ x 1/2″	1.41	0.87	0.19	----
18196	1/2″ x 3/4″	1.38	1.06	0.22	----
18216	5/8" x 1/4"	1.21	0.87	0.22	----
18197	5/8″ x 3/8″	1.22	0.87	0.24	----
18198	5/8″ x 1/2″	1.12	0.81	0.24	----
18199	5/8″ x 3/4″	1.31	1.06	0.26	----
18200	3/4″ x 1/2″	1.44	1.00	0.26	----
18201	3/4″ x 3/4″	1.50	1.06	0.26	----
18202	7/8″ x 1/2″	1.18	1.12	0.26	----
18203	7/8″ x 3/4″	1.22	1.12	0.28	----
18205	7/8″ x 1″	1.67	1.37	0.32	----
18206	1" x 3/4"	1.95	1.37	0.44	----
18207	1" x 1"	2.00	1.38	0.48	----

68

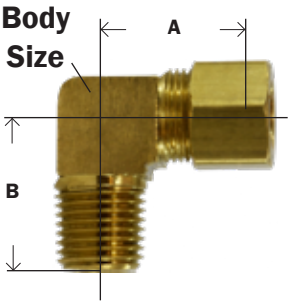
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ELBOW

SAE# 060202



Forged



Barstock

69

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18219	1/8" x 1/16"	0.59	0.73	0.34	0.02	----
18220	1/8" x 1/8"	0.59	0.75	0.34	0.02	----
18220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	----
18221	3/16" x 1/8"	0.63	0.72	0.34	0.04	----
18221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	----
18223	3/16" x 1/4"	0.60	0.81	0.39	0.05	----
18223B*	3/16" x 1/4"	0.65	0.85	0.41	0.08	----
18224	1/4" x 1/8"	0.60	0.75	0.37	0.06	----
18224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	----
18225	1/4" x 1/4"	0.65	0.94	0.36	0.08	----
18225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	----
18226	1/4" x 3/8"	0.75	0.91	0.47	0.08	----
18227	1/4" x 1/2"	0.81	1.13	0.56	0.12	----
18228	5/16" x 1/8"	0.66	0.75	0.47	0.06	----
18228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	----
18229	5/16" x 1/4"	0.66	0.81	0.47	0.07	----
18229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	----
18230	5/16" x 3/8"	0.75	0.91	0.47	0.10	----
18231	5/16" x 1/2"	0.84	1.12	0.56	0.12	----
18232	3/8" x 1/8"	0.72	0.66	0.39	0.06	----
18232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	----
18233	3/8" x 1/4"	0.75	0.82	0.46	0.08	----
18233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	----
18234	3/8" x 3/8"	0.81	0.94	0.46	0.10	----
18234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	----
18235	3/8" x 1/2"	0.87	1.12	0.56	0.14	----
18235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	----
18248	3/8" x 3/4"	1.03	1.19	0.81	0.18	----
18248B*	3/8" x 3/4"	1.03	1.20	0.86	0.16	----
18247	7/16" x 1/4"	0.84	1.00	0.56	0.14	----
18236	1/2" x 1/4"	0.88	0.97	0.56	0.14	----
18236B*	1/2" x 1/4"	0.85	0.94	0.07	0.17	----
18237	1/2" x 3/8"	0.88	1.03	0.56	0.19	----
18237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	----
18238	1/2" x 1/2"	0.94	1.13	0.59	0.17	----
18238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	----
18239	1/2" x 3/4"	1.16	1.25	0.81	0.18	----
18240	5/8" x 3/8"	1.06	1.12	0.68	0.18	----
18241	5/8" x 1/2"	1.06	1.16	0.68	0.20	----
18241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	----
18242	5/8" x 3/4"	1.16	1.31	0.81	0.24	----
18243	3/4" x 1/2"	1.19	1.31	0.94	0.26	----
18245	3/4" x 3/4"	1.19	1.38	0.94	0.30	----
18246	7/8" x 3/4"	1.25	1.38	0.94	0.35	----

* Barstock

69 **269C** BSE1 **169C**

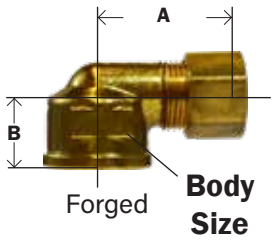
Dimension data can change without notice. Please check when dimensions are critical.

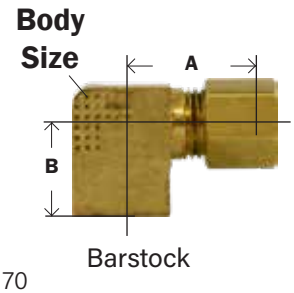
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

FEMALE ELBOW

SAE# 060203





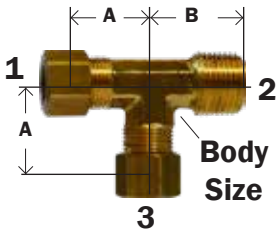
70

PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18251	1/8″ x 1/8″	0.69	0.56	0.56	0.04	----
18251B*	1/8" x 1/8"	0.69	0.60	0.57	0.06	----
18252	3/16″ x 1/8″	0.69	0.47	0.56	0.04	----
18252B*	3/16″ x 1/8″	0.60	0.60	0.58	0.07	----
18253	1/4″ x 1/8″	0.69	0.47	0.56	0.06	----
18253B*	1/4″ x 1/8″	0.69	0.56	0.56	0.06	----
18254	1/4″ x 1/4″	0.75	0.50	0.72	0.08	----
18254B*	1/4″ x 1/4″	0.72	0.85	0.68	0.13	----
18267	1/4″ x 3/8″	0.81	0.58	0.81	0.08	----
18268	1/4″ x 1/2″	0.89	0.66	1.00	0.10	----
18255	5/16″ x 1/8″	0.72	0.84	0.47	0.08	----
18256	5/16″ x 1/4″	0.78	0.50	0.72	0.09	----
18257	3/8″ x 1/8″	0.75	0.84	0.47	0.10	----
18258	3/8″ x 1/4″	0.84	0.59	0.75	0.10	----
18259	3/8″ x 3/8″	0.88	0.58	0.81	0.12	----
18260	3/8″ x 1/2″	0.97	0.66	1.00	0.14	----
18250	3/8″ x 3/4″	1.09	0.72	1.25	0.18	----
18261	1/2″ x 1/4″	1.06	0.70	0.88	0.18	----
18262	1/2″ x 3/8″	1.00	0.70	0.88	0.16	----
18263	1/2″ x 1/2″	1.03	0.72	1.00	0.20	----
18270	1/2″ x 3/4″	1.16	0.72	1.25	0.23	----
18269	5/8″ x 3/8″	1.09	0.77	1.00	0.20	----
18264	5/8″ x 1/2″	1.09	0.77	1.00	0.22	----
18265	5/8″ x 3/4″	1.22	0.77	1.25	0.24	----
18266	3/4″ x 1/2″	1.25	1.25	0.94	0.28	----

* Barstock

70 **270C** BSE3 **170C**

FORGED MALE RUN TEE



71

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.	
18272	1/8″ x 1/8″	0.63	0.69	0.36	0.06	----
18273	3/16″ x 1/8″	0.63	0.69	0.36	0.07	----
18273B*	3/16" x 1/8"	0.63	0.69	0.36	0.06	----
18274B*	1/4" x 1/8"	0.63	0.75	0.36	0.07	----
18274	1/4″ x 1/8″	0.63	0.75	0.36	0.08	----
18275	1/4″ x 1/4″	0.69	0.88	0.44	0.10	----
18276	5/16″ x 1/8″	0.72	0.75	0.50	0.10	----
18277	5/16″ x 1/4″	0.75	0.88	0.44	0.10	----
18278	3/8″ x 1/8″	0.75	0.75	0.50	0.14	----
18279	3/8″ x 1/4″	0.79	0.87	0.44	0.18	----
18280	3/8″ x 3/8″	0.88	1.00	0.47	0.20	----
18281	1/2″ x 3/8″	0.94	1.09	0.59	0.24	----
18282	1/2″ x 1/2″	0.97	1.19	0.69	0.26	----
18283	5/8″ x 1/2″	1.06	1.31	0.69	0.28	----
18284	3/4″ x 1/2″	1.22	1.34	0.88	0.30	----

* Barstock

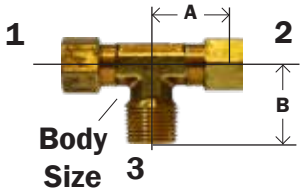
71 **171C** BST3

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

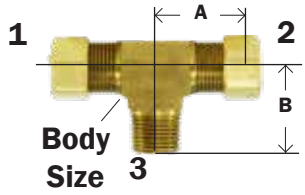
COMPRESSION
BRASS FITTINGS

MALE BRANCH TEE

SAE# 060425



Forged



Barstock

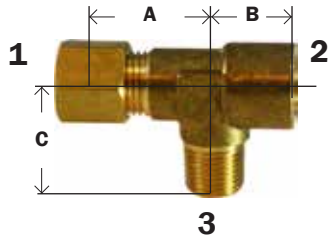
72

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	
18290	3/16" x 1/8"	0.63	0.69	0.36	0.08	----
18291	1/4" x 1/8"	0.62	0.75	0.36	0.10	----
18291B*	1/4" x 1/8"	0.64	0.73	0.45	0.10	----
18292	1/4" x 1/4"	0.69	0.86	0.44	0.10	----
18293	5/16" x 1/8"	0.72	0.75	0.50	0.11	----
18294	5/16" x 1/4"	0.75	0.88	0.44	0.12	----
18295	3/8" x 1/8"	0.75	0.75	0.50	0.14	----
18296	3/8" x 1/4"	0.78	0.88	0.44	0.16	----
18297	3/8" x 3/8"	0.78	0.97	0.47	0.18	----
18298	3/8" x 1/2"	0.88	1.22	0.69	0.20	----
18304	1/2" x 1/4"	0.94	0.97	0.59	0.22	----
18299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24	----
18299	1/2" x 3/8"	0.94	1.12	0.59	0.24	----
18300	1/2" x 1/2"	0.97	1.19	0.69	0.30	----
18301	5/8" x 1/2"	1.06	1.31	0.69	0.32	----
18302	3/4" x 1/2"	1.22	1.34	0.88	0.50	----
18303	3/4" x 3/4"	1.25	1.50	0.88	0.54	----

* Barstock

72 **BST1** 172C

FORGED TEE

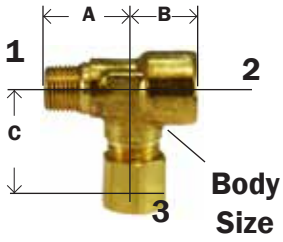


75

PART #	COMP. X FEMALE NPTF X MALE NPTF 1X(2&3)	A	B	C	APPROX. WT. LBS.	
18307	1/4" x 1/8"	0.72	0.53	0.72	0.20	----

BST3

ADAPTER TEE



76

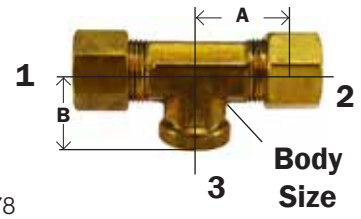
PART #	MALE NPTF X FEMALE NPTF X COMP. (1&2)X3	A	B	C	BODY SIZE	APPROX. WT. LBS.	
18314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	----
18316	3/8" x 1/4"	0.84	0.97	0.81	0.47	0.10	----

76 **176C**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION
BRASS FITTINGS

FEMALE BRANCH FORGED TEE



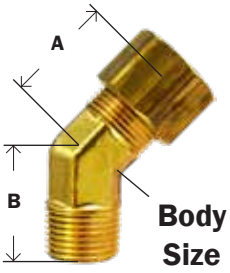
78

PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	
18321	1/4" x 1/8"	0.78	0.75	0.45	0.10	----
18328	1/4" x 1/4"	0.78	0.75	0.44	0.12	----
18325	3/8" x 1/8"	0.75	0.63	0.50	0.12	----
18322	3/8" x 1/4"	0.81	0.97	0.47	0.14	----
18323	3/8" x 3/8"	0.97	0.69	1.05	0.16	----
18326	1/2" x 1/8"	0.94	0.75	0.59	0.20	----
18324	1/2" x 3/8"	1.00	0.72	0.88	0.22	----
18327	5/8" x 1/8"	1.06	0.81	0.69	0.26	----

78 **BST4** 77 **177C** 2908

45° ELBOW

SAE# 060302

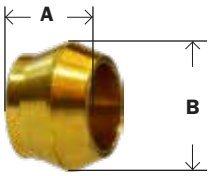


6945

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04	----
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04	----
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06	----
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06	----
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08	----
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08	----
18338	3/8" x 3/8"	0.75	0.95	0.59	0.10	----
18334	1/2" x 3/8"	0.75	0.88	0.59	0.14	----
18339	1/2" x 1/2"	0.94	1.14	0.75	0.14	----
18335	5/8" x 1/2"	0.78	1.14	0.78	0.14	----

6945 **45BSE1** 74 **179C** 273 **77**

COMPRESSION PLUG

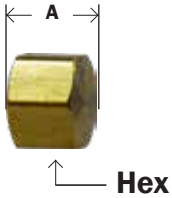


60CP
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.	
18028	1/4"	0.30	0.34	0.01	----
18029	3/8"	0.31	0.47	0.04	----
18032	5/16"	0.40	0.40	0.01	----
18030	1/2"	0.34	0.59	0.06	----
18031	5/8"	0.45	0.72	0.04	----

CSP

CAP



61CC
61CX

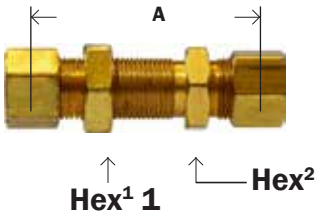
PART #	SIZE	A	HEX	APPROX. WT. LBS.	
18047	1/4"	0.44	0.50	0.02	----
18048	3/8"	0.40	0.62	0.04	----
18049	1/2"	0.48	0.75	0.06	----
18050	5/8"	0.56	0.94	0.10	----

61-CC **N5CT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD UNIONS

SAE# 060101

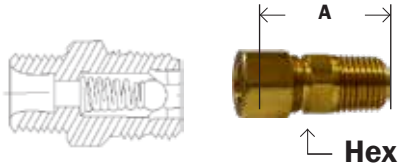


62BH

PART #	SIZE	A	HEX 1	HEX 2	APPROX. WT. LBS.	
18088	1/4″	1.58	0.56	0.56	0.10	----
18090	3/8″	1.76	0.68	0.68	0.14	----
18093	5/8"	2.01	1.000	0.94	0.32	----

62BH **75** 274

BALL CHECK VALVE - MIN. WORKING PRESSURE 3 PSI.

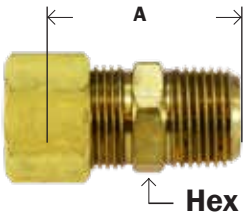


63

PART #	TUBE OD X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18092	1/8″ x 1/8″	0.78	0.44	0.04	----
18094	1/4″ x 1/8″	0.88	0.44	0.04	----
18096	3/8″ x 1/4″	1.16	0.56	0.08	----

63 **263** 63A

TANK ADAPTER DRILLED THRU (NO STOP)



68T

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
18208	1/4″ x 1/8″	0.88	0.43	0.04	----
18209	1/4″ x 1/4″	0.99	0.56	0.05	----
18210	3/8″ x 1/4″	1.16	0.56	0.05	----
18211	3/8″ x 3/8″	1.09	0.68	0.08	----
18212	3/8″ x 1/2″	1.19	0.87	0.10	----
18213	1/2″ x 3/8″	1.22	0.68	0.12	----
18214	1/2″ x 1/2″	1.09	0.81	0.14	----
18215	5/8″ x 1/2″	1.12	0.81	0.18	----

68-T **682C** 80F

Middle age is when your broad mind and narrow waist begin to change places.

- E. Joseph Cossman

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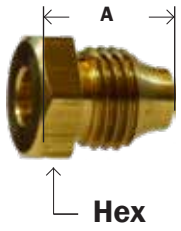
DOUBLE COMPRESSION
BRASS FITTINGS

DOUBLE COMPRESSION THREADED SLEEVE FITTINGS

- Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.
- Easy to assemble, no flaring, two piece construction.
- For use on oil, air, water and grease lubrication systems.
- When design makes a dimension critical, contact us for information.

Tube OD	1/8	3/16	1/4	5/16	3/8
Thread	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20
Working Pressure	500	500	500	250	250

NUT



181

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
16001	1/8"	0.50	0.37	0.02	----
16002	3/16"	0.53	0.43	0.02	----
16003	1/4"	0.56	0.50	0.04	----
16004	5/16"	0.61	0.56	0.04	----
16005	3/8"	0.61	0.62	0.04	----
16006	1/2"	0.90	0.69	0.05	----
16007	5/8"	1.07	0.88	0.06	----

181 **6100** 11

MALE ADAPTER



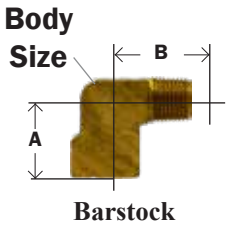
188
26200

PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.	
16117	1/8" x *	0.62	0.43	0.02	----
16118	1/8" x 1/8"	0.62	0.43	0.02	----
16119	3/16" x 1/8"	0.69	0.43	0.02	----
16121	1/4" x 1/8"	0.75	0.50	0.04	----
16120	1/4" x 1/4"	1.06	0.56	0.05	----
16122	5/16" x 1/8"	0.89	0.56	0.04	----
16125	5/16" x 1/4"	1.09	0.56	0.05	----
16123	3/8" x 1/4"	0.84	0.62	0.06	----

* 1/4 - 28 Male Thread Tapered.

188 **6200** 12

90° ELBOW



189
26400

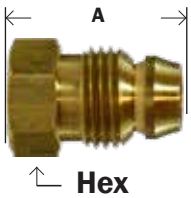
PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
16127	1/8" x *	0.50	0.52	0.41	0.02	----
16128	1/8" x 1/8"	0.50	0.66	0.43	0.02	----
16129	3/16" x 1/8"	0.56	0.62	0.44	0.02	----
16130	1/4" x 1/8"	0.52	0.62	0.50	0.04	----
16131	5/16" x 1/8"	0.75	0.81	0.56	0.09	----
16133	3/8" x 1/4"	0.88	1.00	0.56	0.13	----

* 1/4 - 28 Male Thread Tapered

189 **6400** 15

BREAK-AWAY NUT

- 1-Piece Fiting



181SP
21604

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
16009	1/8"	0.66	0.31	0.02	----
16090	3/16"	0.57	0.37	0.02	----
16010	1/4"	0.62	0.43	0.02	----
16011	5/16"	0.77	0.50	0.04	----
16012	3/8"	0.84	0.56	0.04	----

181-BA **21604** 99LB **81LB**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)

TRANSMISSION BRASS FITTINGS

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.
TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque. **25 prefix parts do not have a stake, use 38 part # with white sealant only**.

COLLET



PART #	TUBE O.D.	
38711	5/32"	----
25001	1/8"	----
25002	3/16"	----
25003	1/4"	----

1460 **90791** 280 **90946**

NUT



PART #	TUBE O.D.	
38732	5/32"	----
25033	1/8"	----

1461 **90790** 281 **90885**

DOUBLE END UNION



PART #	TUBE O.D.	
38761	5/32"	----
25062	1/8"	----
25064	1/4"	----

1462 **90792** 283 **90891**

CONNECTOR WITH NUT AND SLEEVE



PART #	TUBE O.D.	PIPE THREAD	
38769	5/32"	1/16"	----
38770	5/32"	1/8"	----
25175	1/8"	1/16"	----
25176	1/8"	1/8"	----
25177	3/16"	1/8"	----
25179	1/4"	1/8"	----

▪ Shipped with nut and split sleeve, picture shows insert 1468 **90794** 282 **90985**

ELBOW



PART #	TUBE O.D.	PIPE THREAD	
38715	5/32"	1/16"	----
38718	5/32"	1/8"	----
25220	1/8"	1/8"	----
25219	1/8"	1/16"	----
25221	3/16"	1/8"	----
25224	1/4"	1/8"	----

284

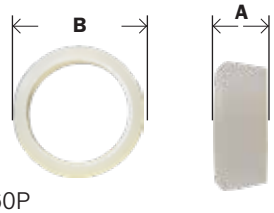
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIAL COMPRESSION ASSEMBLIES
BRASS FITTINGS

To purchase special compression assemblies, delete the 18 prefix on part# and add the prefix of the type of special assembly you desire. Pricing and availability upon request.

22 - Plastic sleeve (inserts should be ordered seperately)
24 - Long nut compression
26 - Captive sleeve (parts listed on following pages)
27 - Self align sleeve

DELRIN SLEEVE

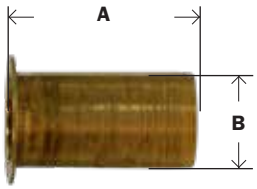


60P

PART #	SIZE	A	B	APPROX. WT. LBS.	
18015	1/4″	0.19	0.37	0.01	----
18016	5/16″	0.19	0.43	0.01	----
18017	3/8″	0.19	0.50	0.02	----
18018	1/2″	0.25	0.63	0.02	----
18019	5/8″	0.22	0.74	0.02	----

60-P

BRASS INSERT
• SLEEVE

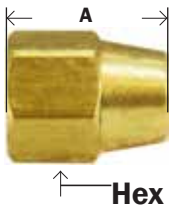


61P
63P

PART #	SIZE	A	B	APPROX. WT. LBS.	WALL	
22008	1/8″	0.46	0.080	0.01	.016	----
22008A	1/8"	0.465	0.073	0.01	.023	----
22009	3/16″	0.45	0.135	0.01	.025	----
22009A	3/16″	0.52	0.095	0.01	.040	
22010	1/4″	0.50	0.163	0.02	.04	----
22010A	1/4″	0.59	0.125	0.02	.04	
22010B	1/4″	0.53	0.172	0.02	.03	
22011A	5/16″	0.50	0.232	0.02	.04	
22011	5/16″	0.53	0.187	0.02	.062	----
22012	3/8″	0.56	0.250	0.03	.062	----
22013	1/2″	0.72	0.370	0.03	.062	----
22014	5/8″	0.72	0.483	0.03	.062	----
22015	3/4″	1.03	0.563	0.03	.03	----

63-BI **60AE** 2030 **63PT**

LONG NUT COMPRESSION - CAN BE ASSEMBLED ON ANY COMPRESSION FITTING



161

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
10013	1/8"	0.50	0.37	0.01	----
24002	3/16"	0.62	0.43	0.01	----
24003	1/4″	0.75	0.50	0.02	----
24004	5/16″	0.84	0.56	0.02	----
24005	3/8″	0.97	0.62	0.04	----
24006	1/2″	1.06	0.81	0.06	----
24007	5/8"	1.19	0.94	0.11	----
24008	3/4"	1.50	1.25	0.14	----

161

SELF-ALIGN SLEEVES



PART #	SIZE	
27001	1/8"	----
27002	3/16"	----
27003	1/4"	----

860 **601**



PART #	SIZE	
27005	3/8"	----
27006	1/2"	----

860

▪ More sizes available

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CAPTIVE SLEEVE COMPRESSION
BRASS FITTINGS

CAPTIVE SLEEVE NUT

61SA
61CS



PART #	SIZE	
26001	1/8″	----
26002	3/16″	----
26003	1/4″	----
26004	5/16″	----
26005	3/8″	----
26007	1/2″	----
26008	5/8″	----

CS61 **61CA**

UNION

62SA



PART #	SIZE	
26062	1/8″	----
26063	3/16″	----
26064	1/4″	----
26065	5/16″	----
26066	3/8″	----
26079	3/8″ x 1/4″	----
26068	1/2"	----

CS62 **62CA**

TEE

64SA



PART #	SIZE	
26102	3/16″	----
26103	1/4″	----
26105	3/8″	----

CS64 **164CA**

FEMALE ADAPTER

66SA



PART #	COMP. X FEMALE NPTF	
26142	1/8" x 1/8"	----
26145	1/4″ x 1/8″	----
26146	1/4" x 1/4"	----
26153	3/8″ x 1/4″	----

CS66 **66CA**

MALE ADAPTER

68SA



PART #	COMP. X MALE NPTF	
26175	1/8" x 1/16"	----
26176	1/8″ x 1/8″	----
26177	3/16″ x 1/8″	----
26178	3/16" x 1/4"	
26179	1/4″ x 1/8″	----
26180	1/4″ x 1/4″	----
26180L	1/4" x 1/4"	----
26181	1/4″ x 3/8″	----
26182	1/4" x 1/2"	----
26183	5/16″ x 1/8″	----
26184	5/16″ x 1/4″	----
26188	3/8″ x 1/4″	----
26189	3/8″ x 3/8″	----
26190	3/8″ x 1/2″	----
26193	1/2" x 1/4"	
26194	1/2" x 3/8"	----
26195	1/2″ x 1/2″	----
26198	5/8" x 1/2"	

CS68 **68CA**

MALE ELBOW

69SA



PART #	COMP. X MALE NPTF	
26220	1/8″ x 1/8″	----
26220B	1/8″ x 1/8″	----
26221B	3/16" x 1/8"	----
26221	3/16″ x 1/8″	----
26224B	1/4" x 1/8"	----
26224	1/4″ x 1/8″	----
26223	3/16" x 1/4"	
26225	1/4″ x 1/4″	----
26225B	1/4″ x 1/4″	----
26226	1/4" x 3/8"	
26228	5/16″ x 1/8″	----
26229	5/16″ x 1/4″	----
26232	3/8" x 1/8"	----
26233	3/8″ x 1/4″	----
26233B	3/8" x 1/4"	----
26234	3/8" x 3/8"	----
26235	3/8" x 1/2"	----
26237	1/2″ x 3/8″	----
26238	1/2″ x 1/2″	----

CS69 **169CA**

MALE BRANCH TEE

72SA



PART #	COMP. X MALE NPTF (1&2) X 3	
26291	1/4″ x 1/8″	----
26292	1/4″ x 1/4″	----
26293	5/16″ x 1/8″	----
26296	3/8″ x 1/4″	----

CS72 **172CA**

CAPTIVE SLEEVE X MALE PIPE ANGLE NEEDLE VALVE



PART #	COMP X MALE PIPE	
26011	1/4″ x 1/8″	----
26014	5/16″ x 1/4″	----

CAPTIVE SLEEVE X CAPTIVE SLEEVE NEEDLE VALVE



PART #	COMP X COMP	
26021	1/4″	----
26023	3/8″	----

Interchangeable with compress-align fittings.

These are NOT Lead Free
Lead Free products
available upon request

- More sizes available
- Lead Free - add LF to part #

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FLARELESS FITTINGS

Flareless Brass Tube Fittings are Interchangeable with Poly-Flo®, Poly-Tite® and Poly-Line® and Poly-Fit®



Built-in SS
Tube Support

Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2
Thread Size-B	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24	11/16-20

▪Typical Application
Pneumatic instrumentation circuits, lubricant and cooling lines.

▪Working Pressure and Temperature Ranges
Up to 150 PSI from 0°F to + 150°F with thermoplastic tubing. Up to 300 PSI from 0°F to + 175°F with soft metal tubing.

▪Maximum allowable metal tube wall thickness for use with Poly-Tite fittings:
1/8", 3/16" O.D. --no limitation,
1/4" O.D.--.035 5/16", 3/8",1/2" O.D.--.049

▪Vibration
Excellent Resistance.

▪Temperature Range
Depends on tubing used. -65°F to +250°F (-53°C to +121°C) with brass sleeve, -40°F to +150°F (-40°C to +66°C) with plastic sleeve. (Refer to tubing temperature range.)

▪Used With
Aluminum & copper tubing. Hard plastic tubing requires brass sleeve. Not recommended for steel tubing.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Advantages
No flaring of tubing required. Easy installation, captive sleeve, pre-assembled for installation and can be reassembled. Nuts rotate around the sleeve during tightening, preventing twisting of tubing.

▪Assembly Instructions
1- Cut tubing to desired length.
2- Slide nut/sleeve assembly on tube. Threaded end "A" of nut must face toward fitting.
3- Bottom tubing into fitting.
4- Plastic sleeve - Tighten nut hand tight.
Brass Sleeve - Tighten nut hand tight, then an additional 3/4 turn.

* Note: 1/8 and 3/16 sizes have brass sleeves

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NUT AND PLASTIC SLEEVE ASSEMBLY

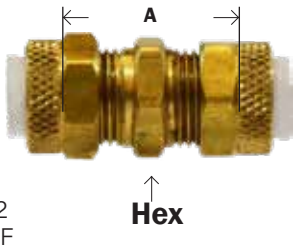


MP61P
261PF

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	
20211	1/4″	3/8-24	0.34	0.43	0.02	----
20212	5/16″	7/16-24	0.45	0.50	0.02	----
20213	3/8″	1/2-24	0.38	0.56	0.04	----
20214	1/2″	11/16-20	0.42	0.81	0.04	----

261PF **1261** 61PN

UNION

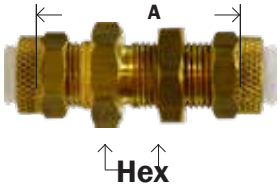


MP62
262PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20240	1/8″	0.66	0.31	0.02	----
20241	3/16″	0.75	0.37	0.04	----
20242	1/4″	0.69	0.37	0.04	----
20243	5/16″	0.69	0.44	0.04	----
20244	3/8″	0.72	0.50	0.10	----
20200	3/8″ x 1/4″	0.72	0.50	0.08	----
20245	1/2″	0.84	0.69	0.14	----

262PF **1262** 62P **262P**

BULKHEAD UNION

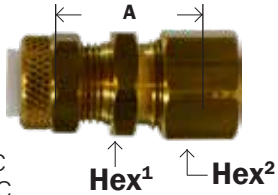


MP82
282PF

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20337	1/4″	1.25	0.56	0.06	----
20338	5/16″	1.25	0.62	0.08	----
20339	3/8″	1.31	0.69	0.10	----

62PBH **329P** 282P

UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION

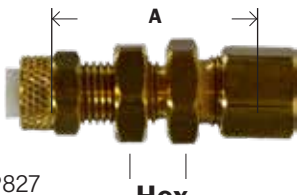


MP62C
262PFC

PART #	TUBE O.D.	A	HEX 1	HEX 2	APPROX. WT. LBS.	
20235	1/4″	0.75	0.44	0.50	0.04	----
20237	3/8″	0.84	0.62	0.62	0.08	----

262S **62PCA** 262PC

BULKHEAD UNION - FLARELESS X COMPRESSION



MP827
282PFC

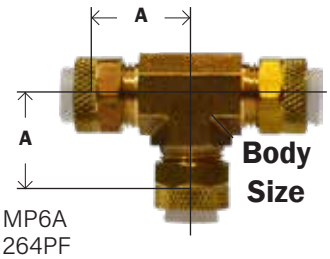
PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20333	1/4″	1.31	0.56	0.07	----
20334	3/8″	1.44	0.69	0.12	----

1274

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNION TEE



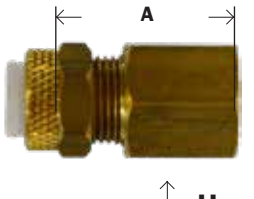
MP6A
264PF

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20248	1/8″	0.62	0.31	0.02	----
20249	3/16″	0.62	0.31	0.04	----
20250	1/4″	0.73	0.44	0.06	----
20251	5/16″	0.62	0.37	0.08	----
20252	3/8″	0.86	0.56	0.08	----
20330*	3/8″ x 1/4″	0.72	0.44	0.08	----
20253	1/2″	0.81	0.62	0.24	----

* Reducing Branch

1264 **164P** 264P

FEMALE CONNECTOR

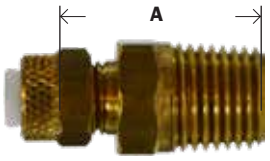


MP66
266PF

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20256	1/8″ x 1/8″	0.75	0.56	0.03	----
20257	3/16″ x 1/8″	0.78	0.56	0.05	----
20259	1/4″ x 1/8″	0.76	0.50	0.04	----
20260	1/4″ x 1/4″	1.08	0.62	0.05	----
20261	5/16″ x 1/8″	0.75	0.50	0.03	----
20265	3/8″ x 1/8″	0.77	0.56	0.05	----
20262	3/8″ x 1/4″	0.94	0.62	0.05	----
20263	1/2″ x 3/8″	1.00	0.81	0.12	----

1266 **66P** 266P

MALE CONNECTOR

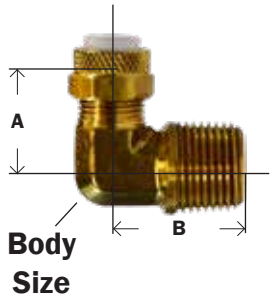


MP68
268PF

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
20268	1/8″ x 1/8″	0.80	0.34	0.04	----
20269	3/16″ x 1/8″	0.86	0.44	0.04	----
20270	1/4" x 10/32"				
20271	1/4″ x 1/8″	0.82	0.44	0.03	----
20272	1/4″ x 1/4″	1.00	0.56	0.05	----
20273	1/4″ x 3/8″	1.03	0.69	0.08	----
20274	5/16″ x 1/8″	0.81	0.44	0.04	----
20275	5/16″ x 1/4"	1.00	0.56	0.05	----
20276	3/8″ x 1/8″	1.00	0.56	0.06	----
20277	3/8″ x 1/4″	1.03	0.56	0.08	----
20278	3/8″ x 3/8″	1.03	0.69	0.10	----
20279	1/2″ x 3/8″	1.09	0.69	0.16	----
20282	1/2″ x 1/2″	1.33	0.88	0.18	----

1268 **68P** 268P

MALE ELBOW



MP69
269PF

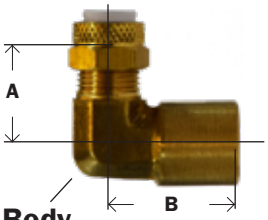
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20287	1/8″ x 1/8″	0.62	0.69	0.31	0.02	----
20288	3/16″ x 1/8″	0.62	0.69	0.37	0.04	----
20289*	1/4″ x 1/8″	0.53	0.73	0.50	0.04	----
20290	1/4″ x 1/4″	0.66	0.94	0.37	0.06	----
20291	1/4″ x 3/8″	0.75	1.03	0.50	0.10	----
20292	5/16″ x 1/8″	0.62	0.75	0.41	0.04	----
20293	3/8″ x 1/8″	0.79	0.73	0.37	0.08	----
20294	3/8″ x 1/4″	0.72	0.94	0.44	0.10	----
20295	3/8″ x 3/8″	0.78	1.03	0.50	0.14	----
20296	1/2″ x 3/8″	1.09	1.10	0.73	0.16	----

* Barstock

1269 **169P** 269P

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FEMALE ELBOW

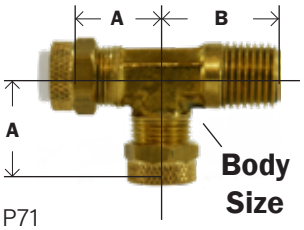


MP70
270PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20300	1/8″ x 1/8″	0.69	0.55	0.56	0.02	----
20301	3/16″ x 1/8″	0.72	0.55	0.56	0.02	----
20302	1/4″ x 1/8″	0.62	0.75	0.37	0.08	----
20303	1/4″ x 1/4″	0.72	0.88	0.50	0.10	----
20304	3/8″ x 1/4″	0.72	0.88	0.50	0.12	----
20305	1/2″ x 3/8″	0.91	0.94	0.63	0.16	----

1270 **170P**

MALE RUN TEE

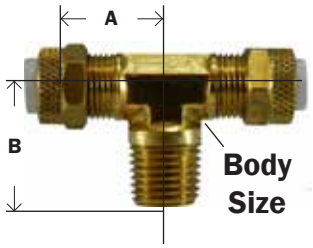


MP71
271PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20308	1/8″ x 1/8″	0.62	0.69	0.31	0.04	----
20309	3/16″ x 1/8″	0.62	0.69	0.31	0.04	----
20310	1/4″ x 1/8″	0.62	0.75	0.37	0.08	----
20311	1/4″ x 1/4″	0.66	0.94	0.37	0.10	----
20312	5/16″ x 1/8″	0.62	0.75	0.37	0.08	----
20313	3/8″ x 1/4″	0.66	0.94	0.44	0.10	----
20314	1/2″ x 3/8″	0.81	1.06	0.63	0.16	----

1271 **171P**

MALE BRANCH TEE

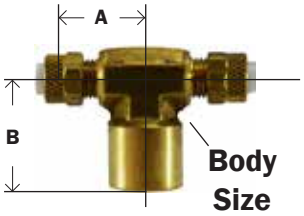


MP72
272PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20317	1/8″ x 1/8″	0.63	0.69	0.31	0.04	----
20318	3/16″ x 1/8″	0.63	0.69	0.31	0.04	----
20319	1/4″ x 1/8″	0.63	0.75	0.37	0.07	----
20320	1/4″ x 1/4″	0.66	0.94	0.37	0.09	----
20321	5/16″ x 1/8″	0.63	0.75	0.37	0.10	----
20322	3/8″ x 1/8″	0.63	0.75	0.44	0.08	----
20323	3/8″ x 1/4″	0.66	0.94	0.44	0.11	----
20324	1/2″ x 3/8″	0.81	1.06	0.63	0.21	----

1272 **172P** 272P

FEMALE BRANCH TEE



MP77
277PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20327	1/4″ x 1/8″	0.66	0.94	0.37	0.12	----
20328	1/4″ x 1/4″	0.84	1.16	0.56	0.16	----

1277 **177P** 277P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS
BRASS FITTINGS

UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY



MP61B
261PFB

PART #	TUBE O.D.	THREAD	A	HEX	APPROX. WT. LBS.	
20227	1/8″	5/16-24	0.37	0.37	0.02	----
20228	3/16″	3/8-24	0.41	0.44	0.02	----
20229	1/4″	3/8-24	0.34	0.43	0.02	----
20230	5/16″	7/16-24	0.34	0.50	0.02	----
20231	3/8″	1/2-24	0.37	0.56	0.04	----
20232	1/2″	11/16-20	0.42	0.81	0.04	----

261PFB **1261B** 61PB **261UB**

NUT

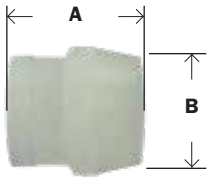


MP61
261PFN

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	
20218	1/8″	5/16-24	0.37	0.37	0.01	----
20219	3/16″	3/8-24	0.41	0.44	0.01	----
20220	1/4″	3/8-24	0.34	0.44	0.02	----
20221	5/16″	7/16-24	0.34	0.50	0.02	----
20222	3/8″	1/2-24	0.38	0.56	0.04	----
20223	1/2″	11/16-20	0.42	0.81	0.06	----

61PN **1261** 261FPN

PLASTIC SLEEVE



MP60
260PF

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20205	1/4″	0.34	0.26	0.01	----
20206	5/16″	0.39	0.32	0.01	----
20207	3/8″	0.41	0.38	0.01	----
20208	1/2″	0.44	0.51	0.01	----

260FF **1260** 60P **260P**

PLASTIC CAP



MP59
269PF

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
20201	1/4″	0.50	0.01	----
20203	3/8″	0.56	0.01	----
20204	1/2″	0.59	0.01	----

1229 **59P** 259P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN



NICKEL PLATED BRASS PUSH-IN



BALL VALVES FOR N/P PUSH-IN



METRIC N/P BRASS PUSH-IN



COMPOSITE BODY PUSH-IN



COMPOSITE BODY METRIC PUSH-IN



FDA PLASTIC PUSH-IN



DOT BRASS PUSH-IN



DOT COMPOSITE PUSH-IN



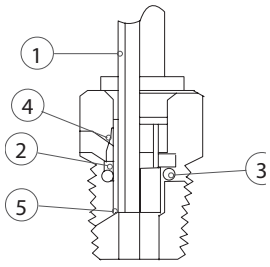
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS



ENGINEERING AND DESIGN

- **QUICK CONNECT**, simply push tubing in, no tools. Saves up to 75% of assembly time of standard compression fittings.
- **QUICK DISCONNECT**, hold two fingers on insert and pull tubing out, no tools required.
- **REUSEABLE**, connect and disconnect numerous times.
- **FULL FLOW DESIGN**, provides up to 60% more flow area than conventional fittings with internal tube supports.
- **POSITIVE SEAL**, no leaks. After tubing is inserted, seal is made.
- **VERSATILE**, BunaN "O" rings standard. Other materials of "O" rings available.
- **SECURE TUBE RETENTION**, pulling on tubing only serves to tighten the connection.
- **SELF CONTAINED ASSEMBLY**, no loose parts, brass body and insert.
- **BRASS CONSTRUCTION**, elbows and tees are forged brass.
- **CHOICE** of convenient swivel of economical stationary elbows and tees.
- **STRAIGHT CONNECTORS** have interior hex for Allen key tightening where space is limited...no need to use a wrench.
- **PRE-APPLIED TEFLON ®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **METRIC SIZES AVAILABLE**: Metric tube sizes from 2mm through 12mm in both standard NPT and metric pipe sizes are available on a special order basis.
- **WORKING TEMPERATURE**:
-10^{0}F to 200^{0}F (other ranges available on request).
- **PIPE THREAD**: NPTF with Teflon ® based sealant pre-applied.



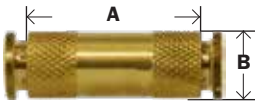
When tubing (1) is inserted into the fitting, it first passes through the gripping teeth (2). Just beyond the gripping teeth is the o-ring (3) which provides the leak proof seal against the OD of the tube. The gripping teeth grab the tube, which expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

UNION CONNECTOR

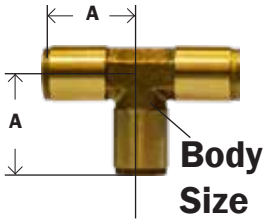


AQ62P
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20017	1/8″	1.07	0.38	0.03	----
20018	5/32″	1.07	0.38	0.03	----
20019	1/4″	1.50	0.44	0.05	----
20022	3/8″ x 1/4″	1.46	0.56	0.05	----
20020	3/8″	1.44	0.56	0.06	----
20021	1/2″	1.63	0.81	0.18	----

AQ62 **6580** 3106 **62PL** KQH **12-020** 50-562 **262-OF** 1162 **262PP**

UNION TEE



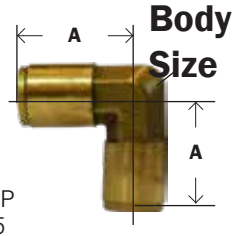
AQ64P
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20025	1/8″	0.65	0.31	0.04	----
20026	5/32″	0.67	0.31	0.04	----
20027	3/16″	0.75	0.37	0.06	----
20028	1/4″	0.92	0.37	0.09	----
20031*	5/16″	0.89	0.49	0.10	----
20029	3/8″	0.98	0.50	0.13	----
20030	1/2″	1.16	0.62	0.24	----

* Nickel Plated

KQT **12-060** 50-564 **264OF** 264PP **1164** AQ64 **6540** 3140

UNION ELBOW

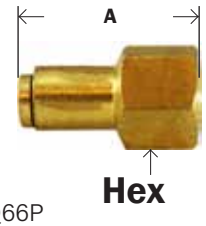


AQ65P
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20150	1/8″	0.65	0.31	0.02	----
20151	5/32″	0.67	0.31	0.04	----
20152	1/4″	0.87	0.37	0.06	----
20155	5/16″	0.91	0.47	0.08	----
20153	3/8″	0.97	0.50	0.09	----
20154	1/2″	1.15	0.62	0.18	----

AQ65 **6550** 3102 **165PL** KQL **12-040** 50-565 **265-OF**

FEMALE CONNECTOR



AQ66P

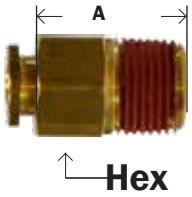
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20032	1/8″ x 1/8″	0.96	0.56	0.04	----
20038	1/8″ x 1/4″	1.04	0.67	0.04	----
20012	5/32" x 1/8"	1.09	0.56	0.05	----
20034	1/4″ x 1/8″	1.23	0.56	0.06	----
20035	1/4″ x 1/4″	1.42	0.75	0.09	----
20036	3/8″ x 1/4″	1.32	0.75	0.09	----
20037	3/8″ x 3/8″	1.31	0.87	0.12	----

266PP **AQ66** 6463 **3114** 66PL **12-426** 50-566 **266-OF** 1166

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

MALE CONNECTOR



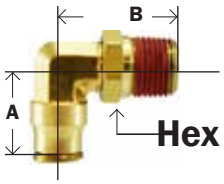
AQ68P
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
20047*	1/8" x 10-32"*	0.69	0.37	0.02	----
20045	1/8" x 1/16"	0.68	0.37	0.02	----
20048	1/8" x 1/8"	0.61	0.43	0.02	----
20023	1/8" x 1/4"	0.98	0.56	0.04	----
20049*	5/32" x 10-32"*	0.67	0.37	0.02	----
20050	5/32" x 1/8"	0.67	0.43	0.03	----
20046	5/32" x 1/4"	0.85	0.56	0.05	----
20051*	3/16" x 10-32"*	0.80	0.37	0.02	----
20052	3/16" x 1/8"	0.93	0.43	0.03	----
20053*	1/4" x 10-32"*	0.70	0.43	0.03	----
20039	1/4" x 1/16"	0.92	0.43	0.06	----
20054	1/4" x 1/8"	0.93	0.43	0.06	----
20055	1/4" x 1/4"	0.93	0.56	0.10	----
20056	1/4" x 3/8"	0.94	0.68	0.08	----
20530	5/16" x 1/8"	1.07	0.56	0.05	----
20531	5/16" x 1/4"	0.98	0.56	0.10	----
20532	5/16" x 3/8"	1.06	0.75	0.08	----
20057	3/8" x 1/8"	1.10	0.56	0.06	----
20058	3/8" x 1/4"	1.11	0.56	0.05	----
20059	3/8" x 3/8"	1.02	0.68	0.08	----
20062	3/8"x 1/2"	1.02	0.87	0.08	----
20060	1/2" x 1/4"	1.36	0.81	0.11	----
20061	1/2" x 3/8"	1.30	0.81	0.12	----
20063	1/2" x 1/2"	1.23	0.87	0.14	----

* Furnished with gaskets

268PP **AQ68** 6510 **3115** 68PL **KQH** 12-425 **50-568** 268-OF **1168**

SWIVEL MALE ELBOW



AQ69PS
MQ69S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20079	1/8" x 1/8"	0.69	0.98	0.43	0.07	----
20535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	----
20076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	----
20080	5/32" x 1/8"	0.68	0.89	0.43	0.05	----
20077	5/32" x 1/4"	0.68	1.08	0.56	0.07	----
20078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	----
20081	1/4" x 1/8"	0.90	0.93	0.37	0.08	----
20082	1/4" x 1/4"	0.90	0.99	0.56	0.10	----
20086	1/4" x 3/8"	0.98	1.14	0.68	0.09	----
20538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	----
20539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	----
20087	3/8" x 1/8"	1.00	1.06	0.43	0.09	----
20083	3/8" x 1/4"	0.99	1.15	0.56	0.10	----
20084	3/8" x 3/8"	1.00	1.24	0.68	0.20	----
20088	3/8" x 1/2"	1.00	1.54	0.87	0.19	----
20085	1/2" x 3/8"	1.16	1.34	0.68	0.18	----
20092	1/2" x 1/2"	1.16	1.51	0.87	0.24	----

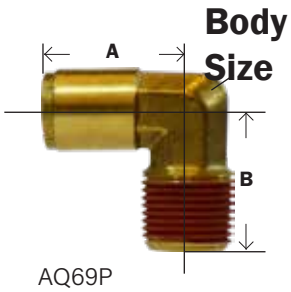
* Nickel Plated
** Furnished with gaskets

aq69-ps **56520** 3109 **169pl** kql **12-447** 50-579 **269-OFS** 11695

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

FIXED MALE ELBOW



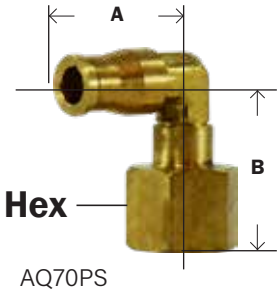
AQ69P
MQ69

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20065	1/8″ x 1/8″	0.69	0.69	0.31	0.03	----
20066	5/32″ x 1/8″	0.68	0.68	0.31	0.03	----
20067	3/16″ x 1/8″	0.75	0.71	0.37	0.04	----
20068	1/4″ x 1/8″	0.89	0.75	0.37	0.06	----
20069	1/4″ x 1/4″	0.95	0.96	0.37	0.08	----
20070	1/4″ x 3/8″	1.00	0.98	0.50	0.10	----
20071	3/8″ x 1/8″	0.99	0.80	0.50	0.06	----
20072	3/8″ x 1/4″	0.98	0.98	0.50	0.09	----
20073	3/8″ x 3/8″	0.97	0.98	0.50	0.12	----
20074	1/2″ x 1/4″	1.15	1.05	0.62	0.15	----
20075	1/2″ x 3/8″	1.18	1.05	0.62	0.22	----
20064	1/2″ x 1/2″	1.16	1.66	0.62	0.20	----

269PP **AQ69-P** 6500 **169PLNS** 12-445 **1169**

Dimension data can change without notice. Please check when dimensions are critical.

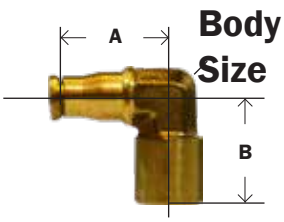
FEMALE SWIVEL ELBOW



AQ70PS
MQ70S

PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	
20094S	5/32" x 1/8"	0.76	1.06	0.56	----
20089S	1/4" x 1/8"	0.98	1.08	0.56	----
20090S	1/4" x 1/4"	0.98	1.26	0.75	----
20091S	3/8" x 1/4"	1.07	1.48	0.75	----

FEMALE ELB0W



AQ70P
MQ70

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20192	1/8" x 1/8"	0.78	0.82	0.31	0.02	----
20094	5/32″ x 1/8″	0.68	0.82	0.37	0.02	----
20089	1/4″ x 1/8″	0.91	0.75	0.37	0.06	----
20090	1/4″ x 1/4″	1.03	1.03	0.50	0.11	----
20091	3/8″ x 1/4″	0.98	0.95	0.50	0.16	----

AQ70-P **3009**

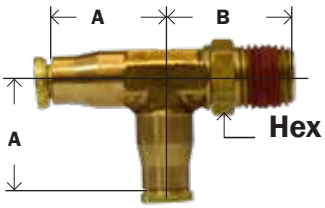
one Man with Courage makes a majority.

– Andrew Jackson

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE RUN TEE

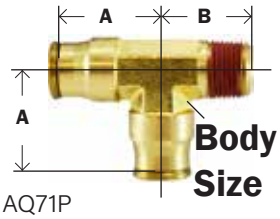


AQ71PS
MQ71S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20160	1/8" x 1/8"	0.65	0.86	0.43	0.08	----
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09	----
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09	----
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11	----
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11	----
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12	----
20174	1/2" x 1/4"	1.12	1.18	0.51	0.16	----
20166	1/2" x 3/8"	1.14	1.31	0.68	0.14	----
20167	1/2" x 1/2"	1.14	1.61	0.87	0.16	----

AQ71-PS **56440** 3103 **171PL** KQY **12-468** 50-571 **271-OFS** 11715

FIXED MALE RUN TEE

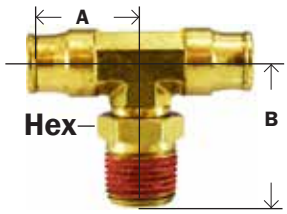


AQ71P
MQ71

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04	----
20097	3/16" x 1/8"	0.75	0.73	0.37	0.06	----
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08	----
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10	----
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14	----
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12	----
20101	3/8" x 3/8"	1.05	1.05	0.62	0.10	----
20102	1/2" x 3/8"	1.14	1.05	0.62	0.18	----

AQ71-P

SWIVEL MALE BRANCH TEE

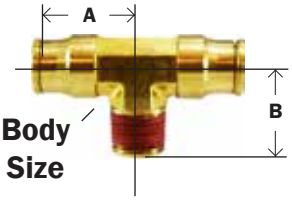


AQ72PS
MQ72S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	
20103	1/8" x 1/8"	0.65	0.81	0.31	0.04	----
20104*	5/32" x 10-32"*	0.65	0.71	0.31	0.04	----
20109	5/32" x 1/8"	0.67	0.94	0.37	0.06	----
20105	1/4" x 1/8"	0.92	0.97	0.43	0.08	----
20106	1/4" x 1/4"	0.92	1.09	0.55	0.10	----
20107	3/8" x 1/4"	0.96	1.14	0.56	0.18	----
20108	3/8" x 3/8"	0.96	1.23	0.69	0.16	----
20110	1/2" x 3/8"	1.16	1.34	0.69	0.24	----
20111	1/2" x 1/2"	1.16	1.64	0.87	0.28	----

* Furnished with gaskets

FIXED MALE BRANCH TEE



AQ72P
MQ72

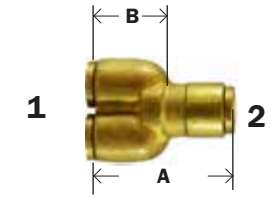
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20112	1/8" x 1/8"	0.69	0.72	0.31	0.04	----
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04	----
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12	----
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10	----
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08	----
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12	----
20119	3/8" x 3/8"	0.98	0.97	0.50	0.14	----
20120	1/2" x 3/8"	1.16	1.05	0.62	0.18	----

AQ72-P

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BRASS PUSH-IN FITTINGS
BRASS FITTINGS

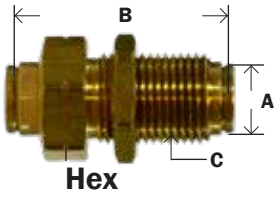
UNION "Y"



AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	
20551	5/32" x 5/32"	1.36	0.81	0.11	----
20552	1/4" x 1/8"	1.61	1.06	0.12	----
20553	1/4" x 1/4"	1.81	1.16	0.14	----

BULKHEAD UNION

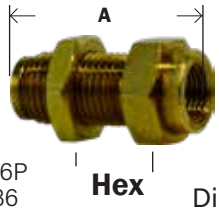


AQ82P
MQ82

PART #	TUBE O.D. A	B	C	HEX	APPROX. WT. LBS.	
20124	1/8"	1.12	7/16-20	0.62	0.03	----
20125	5/32"	1.12	7/16-20	0.62	0.03	----
20126	3/16"	1.27	1/2-20	0.68	0.04	----
20127	1/4"	1.69	1/2-20	0.68	0.06	----
20128	3/8"	1.69	3/4-16	0.81	0.13	----
20129	1/2"	1.85	15/16-20	1.12	0.16	----

AQ82-P **6590** 62PLBH **KQE** 12-029 **50-582** 282-OF **1174**

FEMALE BULKHEAD UNION



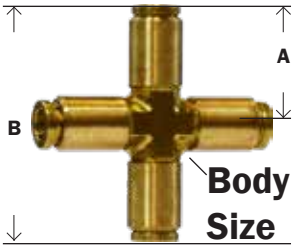
AQ86P
MQ86

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20170	1/4" x 1/8"	1.19	0.68	0.08	----
20171	1/4" x 1/4"	1.36	0.75	0.10	----
20172	3/8" x 1/4"	1.71	0.75	0.14	----

AQ86-P **1166BH**

Dimension data can change without notice. Please call us when dimensions are critical.

CROSS



SIZE	SIZE	A	B	BODY SIZE	
20142	1/4"	1.03	2.06	0.37	----
20143	3/8"	1.06	2.12	0.50	----

REDUCER - NICKEL PLATED - TUBE OD X STUD

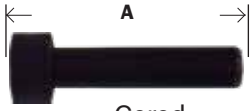


MQ97

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	
20510	1/8" x 1/4"	1.38	0.39	0.02	----
20511	5/32" x 1/4"	1.33	0.35	0.02	----
20512	1/4" x 3/8"	1.50	0.51	0.04	----

67PPL **286PP**

PLASTIC PLUG



AQ59P
MQ59

▪ Cored

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
20009	5/32"	1.16	0.01	----
20010	1/4"	1.40	0.01	----
20011	3/8"	1.40	0.02	----
20013	1/2"	1.50	0.02	----

284PP **AQ59** 209-OF **1129** 6900 **639PL** 12-004 **50-526**

WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
WITH GLOBAL THREAD

• NPTF • BSPP • BSPT • ISO 7 • ISO 228 • G THREAD • J THREAD



- Saves time and money
- No stripped threads
- No stripped parts
- Reduce inventory
- Completely reusable
- Quick installation
- No pitch identification

Component Parts and Materials	
Body	Brass - Nickel Plated
Thrust Ring	Acetalic Resin/ Glass filled Nylon
Sleeve	Brass - Nickel Plated
Gripper Collet	Stainless Steel
Safety Ring	PA66
Lip Seal (1/8 O-Ring Seal)	NBR 70
Thread Seal	NBR 70

Max Operating Pressure: Vacuum to 290PSI.
Min Temperature: -4°F
Max Temperature: 176°F
Tubing: Nylon, Polyethylene, Polyurethane.
- For best results use 95 Durometer
Media: Compressed air, water, vacuum

- **Tolerance**
  +/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

GLOBAL THREAD

WORKS WITH INCH OR METRIC THREADS

GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

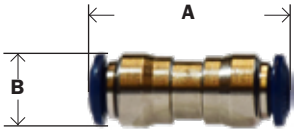
"Global Thread" fittings can be assembled with female threads produced to the following standards:

Tapered NPTF
Parrallel (BSPP, BSP, ISO 7)
Tapered (BSPT, PT, ISO 7, ISO 228)

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

UNION CONNECTOR

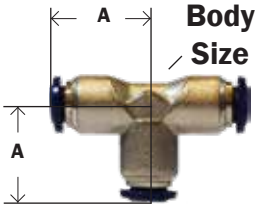


PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20017N	1/8″	1.06	0.34	0.03	----
20018N*	5/32″	1.20	0.41	0.03	----
20016N	5/32" x 1/4"	1.20	0.40	0.04	----
20019N*	1/4″	1.38	0.49	0.05	----
20015N*	5/16"	1.46	0.57	0.06	----
20020N*	3/8″	1.69	0.69	0.06	----
20022N	3/8" x 1/4"	1.69	0.68	0.06	----
20021N*	1/2″	1.93	0.81	0.18	----
20024N	1/2" x 3/8"	1.84	0.80	0.17	----

62PL **88040**

* Available in SS

UNION TEE

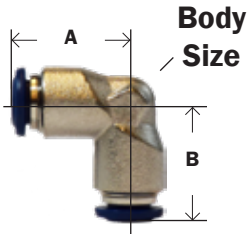


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20025N	1/8″	0.67	0.35	0.04	----
20026N*	5/32″	0.67	0.35	0.04	----
20028N*	1/4″	0.83	0.43	0.09	----
20031N*	5/16″	0.87	0.51	0.10	----
20029N*	3/8″	1.04	0.63	0.13	----
20030N*	1/2″	1.20	0.74	0.24	----

164PL **88230**

* Available in SS

UNION ELBOW

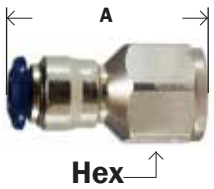


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	
20150N	1/8″	0.67	0.35	0.02	----
20151N*	5/32″	0.67	0.35	0.04	----
20152N*	1/4″	0.83	0.43	0.06	----
20155N*	5/16″	0.87	0.51	0.08	----
20153N*	3/8″	1.04	0.63	0.09	----
20154N*	1/2″	1.20	0.75	0.18	----

165PL **88130**

* Available in SS

FEMALE CONNECTOR



PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
20032N	1/8″ x 1/8″	0.93	0.51	0.04	----
20038N	1/8″ x 1/4″	1.14	0.63	0.04	----
20034N	1/4″ x 1/8″	1.06	0.51	0.06	----
20035N	1/4″ x 1/4″	1.26	0.63	0.09	----
20036N	3/8″ x 1/4″	1.38	0.71	0.09	----
20037N	3/8″ x 3/8″	1.38	0.79	0.12	----

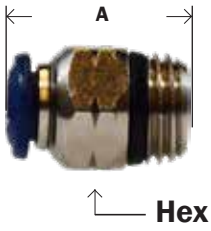
66PL **88030**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR



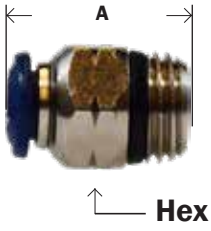
GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

- Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	
20047N	1/8″ x 10-32″	0.75	0.31	0.02	----
20048N	1/8″ x 1/8″	0.77	0.43	0.02	----
20023N	1/8″ x 1/4″	0.97	0.55	0.04	----
20049N*	5/32″ x 10-32″	0.83	0.39	0.02	----
20050N*	5/32″ x 1/8″	0.83	0.43	0.03	----
20046N*	5/32″ x 1/4″	0.98	0.55	0.05	----
20053N*	1/4″ x 10-32″	0.97	0.51	0.03	----
20054N*	1/4″ x 1/8″	0.98	0.51	0.06	----
20055N*	1/4″ x 1/4″	0.98	0.55	0.10	----
20056N	1/4″ x 3/8″	0.98	0.71	0.08	----
20530N*	5/16″ x 1/8″	0.98	0.55	0.05	----
20531N*	5/16″ x 1/4″	1.08	0.55	0.10	----
20532N	5/16″ x 3/8″	1.08	0.71	0.08	----
20057N	3/8″ x 1/8″	1.38	0.67	0.06	----
20058N*	3/8″ x 1/4″	1.32	0.67	0.05	----
20059N*	3/8″ x 3/8″	1.32	0.71	0.08	----
20062N	3/8″ x 1/2″	1.32	0.87	0.08	----
20841N	1/2" x1/8"	1.03	0.79	0.12	----
20060N	1/2″ x 1/4″	1.54	0.79	0.11	----
20061N*	1/2″ x 3/8″	1.42	0.79	0.12	----
20063N*	1/2″ x 1/2″	1.58	0.87	0.14	----

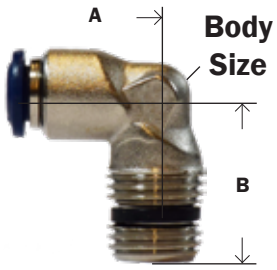
MALE CONNECTOR WITH INTERNAL HEX



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	
20842N	1/8″ x 10-32″ UNF	0.71	0.10	0.02	----
20847N	5/32" x 10-32 UNF	0.79	0.10	0.02	----
20846N	5/32" x 1/8"	0.71	0.12	0.03	----
20845N	1/4″ x 10-32″ UNF	0.93	0.10	0.03	----
20843N	1/4" x 1/8"	0.93	0.16	0.06	----
20844N	1/4" x 1/4"	0.85	0.16	0.10	----

68PL **87000**

FIXED MALE ELBOW



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	
20068N	1/4″ x 1/8″	0.83	0.73	0.43	0.06	----
20069N	1/4″ x 1/4″	0.83	0.91	0.43	0.08	----
20072N	3/8″ x 1/4″	1.04	1.04	0.63	0.09	----
20073N	3/8″ x 3/8″	1.04	1.00	0.63	0.12	----

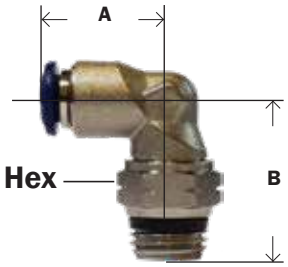
W169PLNS **8100**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE ELBOW



GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

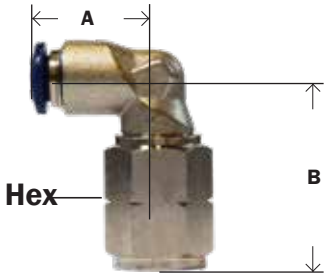
▪ Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20079N	1/8″ x 1/8″	0.67	0.78	0.51	0.07	----
20535N	1/8″ x 1/4″	0.67	0.95	0.59	0.06	----
20076N*	5/32″ x 10-32″	0.67	0.95	0.59	0.04	----
20080N*	5/32″ x 1/8″	0.67	0.79	0.51	0.05	----
20848N*	5/32" x 1/4"	0.67	1.00	0.59	0.05	----
20081N*	1/4″ x 1/8″	0.83	0.87	0.51	0.08	----
20082N*	1/4″ x 1/4″	0.83	0.98	0.59	0.10	----
20086N	1/4″ x 3/8″	0.83	1.10	0.67	0.09	----
20537N*	5/16" x 1/8"	0.91	0.98	0.51	0.06	----
20538N*	5/16″ x 1/4″	0.89	1.02	0.59	0.07	----
20539N	5/16″ x 3/8″	0.87	1.10	0.67	0.08	----
20087N	3/8″ x 1/8″	1.04	1.02	0.51	0.09	----
20083N*	3/8″ x 1/4″	1.04	1.10	0.59	0.10	----
20084N*	3/8″ x 3/8″	1.04	1.18	0.67	0.20	----
20088N*	3/8″ x 1/2″	1.04	1.30	0.83	0.19	----
20184N	1/2" x 1/4"	1.24	1.30	0.59	0.17	----
20085N*	1/2″ x 3/8″	1.20	1.24	0.59	0.18	----
20092N*	1/2″ x 1/2″	1.20	1.42	0.83	0.24	----

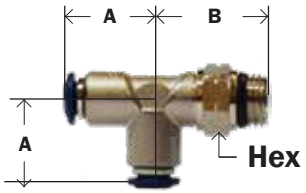
W169PL **87110**

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	
20094N	5/32" x 1/8"	0.669	0.994	0.354	----
20089N	1/4" x 1/8"	0.826	1.023	0.433	----
20090N	1/4" x 1/4"	0.826	1.200	0.433	----
20762N	3/8" x 1/8"	0.885	1.082	0.511	----
20091N	3/8" x 1/4"	0.885	1.240	0.511	----

SWIVEL MALE RUN TEE



GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

▪ Can be purchased with NPTF threads upon request

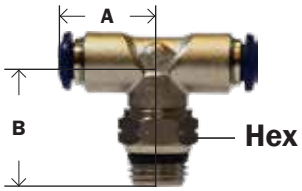
PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20095N	1/8" x 1/8"	0.67	0.81	0.51	0.05	----
20851N	1/8" x 1/4"	0.67	0.95	0.59	0.06	----
20852N	5/32" x 1/8"	0.67	0.79	0.51	0.07	----
20853N	5/32" x 1/4"	0.67	0.95	0.59	0.07	----
20162N	1/4″ x 1/8″	0.83	0.87	0.51	0.09	----
20163N	1/4″ x 1/4″	0.83	0.98	0.59	0.11	----
20164N	1/4" x 3/8"	0.83	1.10	0.59	0.11	----
20159N	3/8" x 1/8"	1.04	1.07	0.59	0.12	----
20168N	3/8" x 1/4"	1.04	1.10	0.59	0.12	----
20165N	3/8″ x 3/8″	1.04	1.18	0.67	0.12	----
20181N	3/8" x 1/2"	1.20	1.24	0.59	0.15	----
20174N	1/2″ x 1/4″	1.20	1.24	0.59	0.16	----
20166N	1/2″ x 3/8″	1.20	1.30	0.67	0.14	----
20167N	1/2" x 1/2"	1.20	1.42	0.83	0.17	----

W171PL **87222**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
BRASS FITTINGS

SWIVEL MALE BRANCH TEE



GLOBAL THREAD
NPT • BSPT • RC • NPTF • BSPP • G

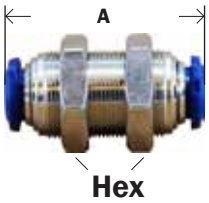
▪ Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	
20103N	1/8″ x 1/8″	0.67	0.78	0.51	0.04	----
20104N	5/32″ x 10-32″	0.67	0.79	0.31	0.04	----
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06	----
20850N	5/32" x 1/4"	0.67	1.00	0.59	0.06	----
20105N	1/4″ x 1/8″	0.83	0.87	0.51	0.08	----
20106N	1/4″ x 1/4″	0.83	0.98	0.59	0.10	----
20156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	----
20157N	3/8" x 1/8"	1.04	1.08	0.59	0.18	----
20107N	3/8″ x 1/4″	1.04	1.10	0.59	0.18	----
20108N	3/8″ x 3/8″	1.04	1.18	0.67	0.16	----
20158N	3/8" x 1/2"	1.04	1.30	0.82	0.18	----
20112N	1/2" x 1/4"	1.20	1.24	0.59	0.23	----
20110N	1/2″ x 3/8″	1.20	1.30	0.67	0.24	----
20111N	1/2″ x 1/2″	1.20	1.42	0.82	0.28	----

W172PL **87210**

BULKHEAD UNION

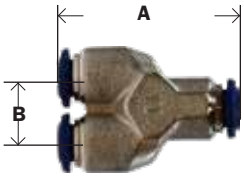


* Available in stainless steel

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
20124N	1/8"	1.03	0.55	0.04	----
20125N*	5/32"	1.22	0.67	0.05	----
20127N*	1/4″	1.38	0.67	0.06	----
20123N*	5/16″	1.45	0.74	0.08	----
20128N*	3/8″	1.69	0.94	0.13	----
20129N*	1/2"	1.93	1.02	0.15	----

62PLBH **88050**

UNION "Y"



PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	
20553N	1/4″ x 1/4″	1.44	0.53	0.14	----

662PL **88310**

REDUCER



PART #	TUBE O.D. 2	TUBE O.D. 1	A	
20510N	1/4"	1/8"	1.142	----
20511N	1/4"	5/32"	1.181	----
20512N	3/8"	1/4"	1.496	----
20513N	1/2"	1/4"	1.693	----
20514N	1/2"	3/8"	1.693	----

67PPL **88700**

Also available:
- Nylon plug
- Single banjo
- Double banjo
- Push fit cartridges and tools

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS
BRASS FITTINGS

CHROME PLATED BRASS MINI BALL VALVES

- Compact Design
- Max Working Pressure 250 psi
- Optional colors of handle plate for identification



PUSH-IN X PUSH-IN

PART #	SIZE	BOX/CASE	WGT.	
28400	1/8	30/300	.07	----
28401	1/4	30/300	.10	----
28402	3/8	20/200	.21	----



PUSH-IN X MALE PIPE

PART #	SIZE TUBE X MIP	BOX/ CASE	WGT.	
28403	5/32 x 1/8	30/300	.08	----
28407	1/4 x 1/8	30/300	.08	----
28404	1/4 x 1/4	30/300	.10	----
28405	3/8 x 3/8	20/200	.17	----



FIP X FIP

PART #	SIZE	BOX/CASE	WGT.	
46650	1/8	30/300	.11	----
46651	1/4	30/300	.10	----
46652	3/8	20/200	.14	----
46653	1/2	15/150	.25	----



MIP X FIP

PART #	SIZE	BOX/CASE	WGT.	
46660	1/8	30/300	.11	----
46661	1/4	30/300	.10	----
46662	3/8	20/200	.14	----
46663	1/2	15/150	.25	----

PANEL MOUNT DESIGN



FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.	
46670	1/8	20/200	.19	----
46671	1/4	20/200	.20	----
46672	3/8	25/250	.11	----



3-WAY FIP - OPEN CENTER

PART #	SIZE	BOX/CASE	WGT.	
466900	1/8	25/250	.13	----
466901	1/4	20/200	.21	----
466902	3/8	20/200	.21	----



3-WAY FIP - CLOSED CENTER

PART #	SIZE	BOX/CASE	WGT.	
46680	1/8	25/250	.13	----
46681	1/4	20/200	.21	----
46682	3/8	20/200	.21	----

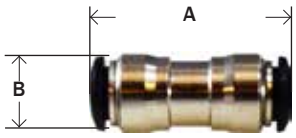
See page 198-200 for more mini ball valves
Stainless Steel mini ball valves on page 212 and 213

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

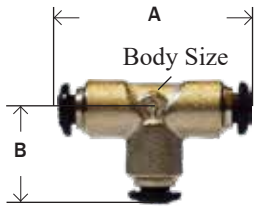
UNION



PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B	
20723N	3		1.014	0.332	----
20600N*	4		1.190	0.410	----
20724N	5		1.287	0.449	----
20725N	6	4	1.248	0.488	----
20601N*	6		1.326	0.488	----
20726N	8	6	1.365	0.566	----
20727N*	8		1.404	0.566	----
20728N	10	8	1.638	0.683	----
20603N*	10		1.638	0.683	----
20729N	12	10	1.833	0.800	----
20604N*	12		1.833	0.800	----
20730N	14		1.911	0.839	----

* Available in SS

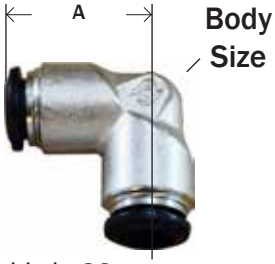
UNION TEE



PART #	TUBE O.D. (MM)	A	B	BODY SIZE	
20741N	3	1.326	0.663	0.351	----
20610N*	4	1.326	0.663	0.351	----
20742N	5	1.560	0.780	0.429	----
20611N*	6	1.638	0.819	0.429	----
20612N*	8	1.755	0.878	0.507	----
20613N*	10	2.067	1.034	0.624	----
20614N*	12	2.379	1.190	0.741	----
20743N	14	2.379	2.535	0.741	----

* Available in SS

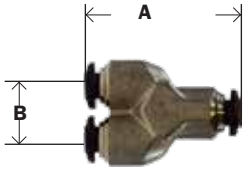
UNION ELBOW



PART #	TUBE O.D. (MM)	A	BODY SIZE	
20738N	3	0.663	0.51	----
20206N*	4	0.663	0.351	----
20739N	5	0.780	0.429	----
20660N*	6	0.780	0.429	----
20661N*	8	0.878	0.507	----
20807N*	10	1.034	0.624	----
20808N*	12	1.190	0.741	----
20740N	14	1.268	0.741	----

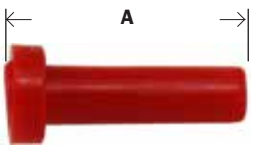
* Available in SS

UNION Y



PART #	TUBE O.D. (MM)	B	A	
20744N	3	0.390	1.131	----
20813N	4	0.429	1.248	----
20745N	5	0.527	1.365	----
20814N	6	0.527	1.424	----
20815N	8	0.605	1.599	----
20746N	10	0.728	1.890	----

PLUG



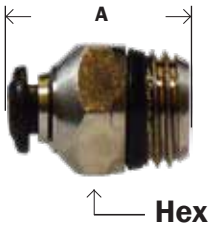
PART #	TUBE O.D. (MM)	A	
20748N	4	0.917	----
20749N	5	0.956	----
20750N	6	0.956	----
20751N	8	1.014	----
20752N	10	1.112	----
20753N	12	1.190	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

NICKEL PLATED METRIC PUSH-IN FITTINGS

METRIC TUBE STRAIGHT MALE



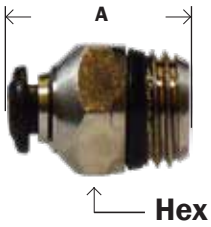


- Can be purchased with BSPP or BSPT Threads

* Available in SS

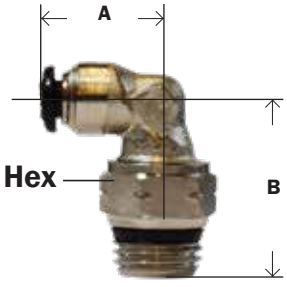
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	
20630N*	4	1/8"	0.702	0.429	----
20631N*	4	1/4"	0.760	0.546	----
20700N	5	1/8"	0.78	0.429	----
20701N	5	1/4"	0.78	0.546	----
20632N*	6	1/8"	0.78	0.546	----
20633N*	6	1/4"	0.819	0.546	----
20628N	6	3/8"	0.90	0.546	----
20629N	6	1/2"	0.92	0.546	----
20702N*	8	1/8"	0.955	0.546	----
20634N*	8	1/4"	0.858	0.546	----
20635N	8	3/8"	0.897	0.663	----
20703N	8	1/2"	0.897	0.663	----
20636N*	10	1/4"	1.092	0.663	----
20637N*	10	3/8"	1.092	0.663	----
20704N*	10	1/2"	1.014	0.663	----
20801N	12	1/4"	1.267	0.78	----
20638N*	12	3/8"	1.267	0.78	----
20705N*	12	1/2"	1.209	0.78	----
20706N	14	3/8"	1.287	0.858	----
20707N	14	1/2"	1.248	0.858	----

METRIC TUBE INTERNAL HEX



PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	
20619N	3	M5	0.31	0.31	----
20620N	4	1/8"	0.71	0.43	----
20621N*	4	M5	0.39	0.38	----
20622N	4	M7 x 1"	0.83	0.38	----
20623N	6	1/4"	0.83	0.55	----
20624N	6	1/8"	0.85	0.47	----
20625N*	6	M5	0.47	0.47	----
20626N	8	1/4"	0.88	0.55	----
20627N	8	1/8"	0.98	0.55	----

METRIC TUBE SWIVEL MALE ELBOW





- Can be purchased with BSPP or BSPT Threads

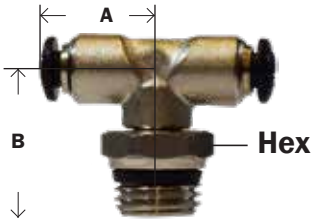
* Available in SS w BSPP or BSPT Threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20708N*	4	1/8"	0.663	0.780	0.507	----
20709N*	4	1/4"	0.663	0.936	0.585	----
20710N	5	1/8"	0.780	0.858	0.507	----
20642N*	6	1/8"	0.819	0.858	0.507	----
20803N*	6	1/4"	0.819	0.975	0.585	----
20711N*	8	1/8"	0.878	0.917	0.507	----
20805N*	8	1/4"	0.878	1.014	0.585	----
20655N	8	3/8"	0.878	1.092	0.663	----
20712N	8	1/2"	0.878	1.404	0.819	----
20656N*	10	1/4"	1.034	1.092	0.585	----
20657N*	10	3/8"	1.034	1.170	0.663	----
20713N*	10	1/2"	1.034	1.287	0.819	----
20658N*	12	3/8"	1.190	1.287	0.663	----
20659N*	12	1/2"	1.190	1.404	0.819	----
20714N	14	3/8"	1.268	1.404	0.663	----
20715N	14	1/2"	1.268	1.443	0.819	----

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NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS FITTINGS

METRIC TUBE SWIVEL MALE BRANCH TEE



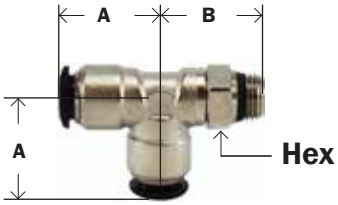


PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20680N*	4	1/8"	0.663	0.780	0.507	----
20716N*	4	1/4"	0.663	0.936	0.585	----
20717N	5	1/8"	0.78	0.858	0.507	----
20682N*	6	1/8"	0.819	0.858	0.507	----
20683N*	6	1/4"	0.819	0.975	0.585	----
20809N*	8	1/8"	0.877	0.917	0.507	----
20684N*	8	1/4"	0.877	1.014	0.585	----
20690N	8	3/8"	0.886	1.024	0.585	----
20691N	8	1/2"	0.886	1.122	0.585	----
20686N*	10	1/4"	1.033	1.092	0.585	----
20687N*	10	3/8"	1.033	1.170	0.663	----
20810N*	10	1/2"	1.033	1.287	0.819	----
20688N*	12	3/8"	1.189	1.287	0.663	----
20689N*	12	1/2"	1.189	1.404	0.819	----
20718N	14	3/8"	1.267	1.404	0.663	----
20719N	14	1/2"	1.267	1.443	0.819	----

- Can be purchased with BSPP or BSPT threads

* Available in SS w/BSPP or BSPT threads

METRIC TUBE SWIVEL MALE RUN TEE

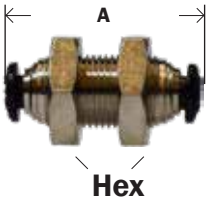




PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	
20670N	4	1/8"	0.663	0.780	0.507	----
20720N	4	1/4"	0.663	0.936	0.585	----
20721N	5	1/8"	0.780	0.858	0.507	----
20672N	6	1/8"	0.819	0.858	0.507	----
20673N	6	1/4"	0.819	0.975	0.585	----
20811N	8	1/8"	0.819	0.917	0.507	----
20674N	8	1/4"	0.878	1.014	0.585	----
20668N	8	3/8"	0.885	1.063	0.585	----
20669N	8	1/2"	0.885	1.063	0.585	----
20676N	10	1/4"	0.878	1.092	0.585	----
20677N	10	3/8"	1.034	1.170	0.663	----
20722N	10	1/2"	1.034	1.287	0.819	----
20678N	12	3/8"	1.190	1.287	0.663	----
20679N	12	1/2"	1.190	1.404	0.819	----

- Can be purchased with BSPP threads

BULKHEAD



PART #	TUBE O.D. (MM)	M	A	HEX	
20731N	3	M10x1	1.014	0.546	----
20732N*	4	MI2x1	1.229	0.663	----
20733N	5	M14x1	1.287	0.663	----
20734N*	6	M14x1	1.365	0.663	----
20735N*	8	M16x1	1.443	0.741	----
20736N*	10	M20x1	1.677	0.936	----
20737N*	12	M22x1	1.872	1.014	----

* Available in SS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS



▪ For Food Grade,
see page 340-343

Specifications

Fluid admitted	Air
Working pressure range	0-150 PSI (10BAR)
Min. Burst pressure	340PSI (23BAR)
Working Temperature range	0°F ~160°F

Materials of Construction:

1	Body	Composite Polyacetal (hemopolymer,copolymer)
2	Body	Brass
3	Tube Release	Acetal Resin
4	Retainer	Brass
5	Gripper Ring	Stainless Steel
6	Spacer	Brass
7	O-Ring	NBR 70
8	Threads	Brass w/ white sealant

The latest generation of composite material is used in the body construction in addition to brass on threaded components and stainless steel on the tube gripper.

▪ **Tolerance**
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

May you live all the days of your life.

- Jonathan Swift

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COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	
20017C	1/8"	0.01	----
20018C	5/32"	0.01	----
20001C	3/16"	0.01	----
20019C	1/4″	0.01	----
20015C	5/16"	0.01	----
20020C	3/8″	0.02	----
20021C	1/2"	0.03	----
20016C	1/4" x 5/32"	0.01	----
20515C	5/16" x 1/4"	0.01	----
20022C	3/8" x 1/4"	0.01	----
20516C	3/8" x 5/16"	0.02	----
20024C	1/2" x 3/8"	0.03	----

PQ62P

UNION TEE



PART #	TUBE O.D.	APPROX. WT. LBS.	
20025C	1/8"	0.01	----
20026C	5/32"	0.01	----
20027C	3/16"	0.02	----
20028C	1/4″	0.02	----
20031C	5/16"	0.02	----
20029C	3/8″	0.02	----
20030C	1/2"	0.08	----

PQ64P

90° UNION ELBOW



PART #	TUBE O.D.	APPROX. WT. LBS.	
20150C	1/8"	0.01	----
20151C	5/32"	0.01	----
20149C	3/16"	0.01	----
20152C	1/4″	0.02	----
20155C	5/16"	0.02	----
20153C	3/8″	0.02	----
20154C	1/2"	0.02	----

PQ65P

UNION "Y" CONNECTOR



PART #	TUBE O.D.	APPROX. WT. LBS.	
20551C	5/32"	0.01	----
20553C	1/4″	0.02	----
20182C	5/16"	0.02	----
20555C	3/8″	0.02	----
20185C	1/2	0.07	----

PQ89P

FEMALE CONNECTOR

- Brass



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
20034C	1/4″ x 1/8″	0.02	----
20035C	1/4″ x 1/4″	0.04	----
20036C	3/8″ x 1/4″	0.04	----
20037C	3/8″ x 3/8″	0.06	----

PQ66P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

- Nickel Plated



- See broader range of sizes on page 104 N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20050C	5/32" x 1/8"	0.02	----
20053C	1/4" x 10-32"	0.02	----
20054C	1/4" x 1/8"	0.02	----
20055C	1/4" x 1/4"	0.02	----
20056C	1/4" x 3/8"	0.04	----
20530C	5/16" x 1/8"	0.05	----
20531C	5/16" x 1/4"	0.05	----
20057C	3/8" x 1/8"	0.05	----
20058C	3/8" x 1/4"	0.06	----
20059C	3/8" x 3/8"	0.06	----
20062C	3/8" x 1/2"	0.08	----
20060C	1/2" x 1/4"	0.06	----
20061C	1/2" x 3/8"	0.08	----
20063C	1/2" x 1/2"	0.10	----

PQ68P

SWIVEL MALE ELBOW

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20079C	1/8" x 1/8"	0.01	----
20535C*	1/8" x 1/4"	0.01	----
20517C*	3/16" x 1/4"	0.01	----
20080C*	5/32" x 1/8"	0.01	----
20077C*	5/32" x 1/4"	0.01	----
20049C*	5/32" x 10/32"	0.01	----
20078C	1/4" x 10-32	0.01	----
20081C	1/4" x 1/8"	0.02	----
20082C	1/4" x 1/4"	0.04	----
20086C	1/4" x 3/8"	0.06	----
20518C*	1/4" x 1/2"	0.07	----
20537C	5/16" x 1/8"	0.04	----
20538C	5/16" x 1/4"	0.04	----
20539C*	5/16" x 3/8"	0.06	----
20087C	3/8" x 1/8'	0.04	----
20083C	3/8" x 1/4"	0.08	----
20084C	3/8" x 3/8"	0.10	----
20088C	3/8" x 1/2"	0.12	----
20184C	1/2" x 1/4"	0.14	----
20085C	1/2" x 3/8"	0.16	----
20092C*	1/2" x 1/2"	0.18	----

PQ69PS

LONG PATTERN MALE ELBOWS



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	
20572C	1/4 X 1/8	0.03	----
20573C	1/4 X 1/4	0.05	----
20574C	1/4 X 3/8	0.06	----
20579C	3/8 X 1/4	0.09	----
20580C	3/8 X 3/8	0.12	----
20581C	3/8 X 1/2	0.14	----
20582C	1/2 X 1/4	0.16	----
20583C	1/2 X 3/8	0.18	----
20584C	1/2 X 1/2	0.20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

FEMALE SWIVEL ELBOWS



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
20089C	1/4 X 1/8	0.05	----
20090C	1/4 X 1/4	0.06	----
20591C	1/4 X 3/8	0.07	----
20091C	3/8 X 1/4	0.10	----
20595C	3/8 X 3/8	0.14	----
20596C	3/8 X 1/2	0.15	----
20597C	1/2 X 3/8	0.20	----
20598C	1/2 X 1/2	0.23	----

45° SWIVELS



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20139C	1/4 X 1/8	0.04	----
20140C	1/4 X 1/4	0.05	----

SWIVEL MALE RUN TEE

- Swivels for installation only.



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20160C*	1/8" x 1/8"	0.03	----
20833C*	1/8" x 1/4"	0.03	----
20835C*	5/32" x 10-32	0.03	----
20162C	1/4" x 1/8"	0.04	----
20163C	1/4" x 1/4"	0.04	----
20834C*	1/4" x 10-32	0.04	----
20099C	3/8" x 1/8"	0.06	----
20100C	3/8" x 1/4"	0.08	----
20165C	3/8" x 3/8"	0.10	----
20181C	3/8 x 1/2	0.12	----
20174C	1/2 x 1/4	0.12	----
20166C	1/2 x 3/8	0.14	----
20167C	1/2 x 1/2	0.16	----

PQ71PS

SWIVEL MALE BRANCH TEE

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20103C*	1/8" x 1/8"	0.02	----
20519C*	1/8" x 1/4"	0.03	----
20109C*	5/32" x 1/8"	0.02	----
20135C*	5/32" x 1/4"	0.03	----
20104C*	5/32" x 10/32"	0.03	----
20830C*	3/16" x 1/8"	0.03	----
20105C	1/4" x 1/8"	0.04	----
20106C	1/4" x 1/4"	0.06	----
20831C*	1/4" x 10/32"	0.06	----
20121C	1/4" x 3/8"	0.08	----
20136C*	5/16" x 1/8"	0.04	----
20137C*	5/16" x 1/4"	0.05	----
20832C*	5/16" x 3/8"	0.06	----
20107C	3/8" x 1/4"	0.10	----
20108C	3/8" x 3/8"	0.12	----
20158C*	3/8 X 1/2	0.14	----
20138C*	1/2 X 1/4	0.14	----
20110C	1/2 X 3/8	0.16	----
20111C	1/2 X 1/2	0.21	----

PQ72PS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

BULKHEAD UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	
20127C	1/4″	0.04	----
20128C	3/8″	0.06	----
20129C	1/2"	0.10	----

PQ82P

BULKHEAD FEMALES



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	
20170C	1/4 X 1/8	0.04	----
20171C	1/4 X 1/4	0.04	----
20172C	3/8 X 1/4	0.06	----
20173C	3/8 X 3/8	0.07	----
20175C	1/2 X 1/4	0.07	----
20176C	1/2 X 3/8	0.09	----
20179C	1/2 X 1/2	0.10	----

SWIVEL "Y" CONNECTOR

▪ Swivels for installation only. ▪ Not a live swivel



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20187C	1/4 X 1/8	0.02	----
20557C	1/4″ x 1/4″	0.02	----
20188C	3/8 X 1/4	0.04	----
20189C	3/8 X 3/8	0.04	----
20193C	3/8 X 1/2	0.07	----
20194C	1/2 X 3/8	0.06	----
20195C	1/2 X 1/2	0.09	----

PQ88PS

IN-LINE NEEDLE VALVE



PART #	TUBE O.D.	APPROX. WT. LBS.	
20487C	1/4″	0.04	----
20488C	5/16″	0.05	----
20489C	3/8″	0.06	----

PQ310C

RIGHT ANGLE FLOW CONTROL METER IN

▪ Free flow out



▪ Marked w/V

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20727C	1/4 X 1/8	0.04	----
20728C	1/4″ x 1/4″	0.04	----
20780C	3/8 X 1/4	0.06	----
20781C	3/8 X 3/8	0.06	----
20782C	1/2 X 1/2	0.10	----

JPQ

RIGHT ANGLE FLOW CONTROL METER OUT

▪ Free flow in



▪ Marked w/C

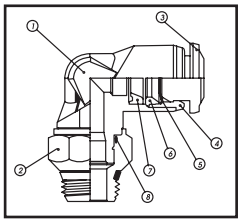
PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	
20785C	1/4 x 1/8	0.04	----
20786C	1/4 x 1/4	0.04	----
20787C	3/8 x 1/4	0.06	----
20788C	3/8 x 3/8	0.06	----
20789C	1/2 x 1/2	0.10	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

Technical Characteristics



PART 1	BODY	COMPOSITE
PART 2	BODY	NICKEL PLATED BRASS
PART 3	TUBE RELEASE	ACETAL RESIN
PART 4	RETAINER	NICKEL PLATED BRASS
PART 5	GRIPPER RING	STAINLESS STEEL
PART 6	SPACER	COMPOSITE
PART 7	THREAD PACKING	NBR 70
PART 8	O-RING	NBR 70
PART 9	THREAD SEAL	NBR70

Operating Range

Pressure: 0 to 220 PSI (15 bar)

Vacuum: 0 to 29hg (-.99 bar)

Temperature

-5^0 F to + 175^0 F (-20^0 C to + 80^0 C)

Media

Compressed air.

Non-toxic fluids (water)

Materials

The latest generation of composite material is used in the body construction in addition to nickel-plated brass on threaded components and stainless steel on the tube gripper.

UNION



PART #	TUBE O.D. (MM)	
20600	4	----
20601	6	----
20602	8	----
20603	10	----
20604	12	----

UNION TEE



PART #	TUBE O.D. (MM)	
20610	4	----
20862	5	----
20611	6	----
20612	8	----
20613	10	----
20614	12	----
20861	14	----

3104

UNION ELBOW



PART #	TUBE O.D. (MM)	
20806	4	----
20660	6	----
20661	8	----
20807	10	----
20808	12	----
20740	14	----

3102

MALE ADAPTER



PART #	TUBE OD (MM)	BSPT THREAD	
20630	4	1/8″	----
20631	4	1/4″	----
20632	6	1/8″	----
20633	6	1/4″	----
20634	8	1/4″	----
20635	8	3/8″	----
20636	10	1/4″	----
20637	10	3/8″	----
20801	12	1/4″	----
20638	12	3/8″	----

3175

NOTE: See page 102 for a complete line of male adapters with global thread.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL ELBOW



PART #	TUBE OD (MM)	BSPT THREAD	
20690*	4	M5	----
20856*	4	1/8"	----
20855*	4	1/4"	----
20692*	5	M5	----
20857*	5	1/8"	----
20859*	6	M5	----
20642	6	1/8″	----
20803	6	1/4″	----
20698*	6	3/8"	----
20699*	6	1/2"	----
20711*	8	1/8"	----
20805	8	1/4″	----
20655	8	3/8"	----
20712*	8	1/2"	----
20656	10	1/4"	----
20657	10	3/8"	----
20713*	10	1/2"	----
20790	12	1/4"	----
20658	12	3/8"	----
20659	12	1/2"	----
20714*	14	3/8"	----
20854*	14	1/2"	----

* Global Thread
- BSPP Available

SWIVEL BRANCH TEE



PART #	TUBE OD (MM)	BSPT THREAD	
20680*	4	1/8″	----
20860*	4	1/4"	----
20717*	5	1/8"	----
20682	6	1/8″	----
20683	6	1/4″	----
20809	8	1/8"	----
20684	8	1/4"	----
20685	8	3/8"	----
20686	10	1/4"	----
20687	10	3/8"	----
20810	10	1/2"	----
20688	12	3/8"	----
20689	12	1/2"	----
20718*	14	3/8"	----
20719*	14	1/2"	----

* Global Thread
- BSPP Available

SWIVEL RUN TEE



PART #	TUBE OD (MM)	BSPT THREAD	
20670	4	1/8″	----
20720*	4	1/4"	----
20721*	5	1/8"	----
20672	6	1/8″	----
20673	6	1/4″	----
20811	8	1/8"	----
20674	8	1/4"	----
20675	8	3/8"	----
20676	10	1/4"	----
20677	10	3/8"	----
20678	12	3/8"	----
20679	12	1/2"	----

* Global Thread
- BSPP Available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION WYE



PART #	TUBE OD (MM)	
20813	4	----
20814	6	----
20815	8	----
20746	10	----
20802	12	----

SWIVEL MALE WYE



PART #	TUBE OD (MM)	GLOBAL THREAD	
20816	4	1/8"	----
20821*	4	1/4"	----
20817*	6	1/8"	----
20818	6	1/4"	----
20819*	8	1/8"	----
20820*	8	1/4"	----
20822*	8	3/8"	----
20823*	10	1/4"	----
20824*	10	3/8"	----
20825*	10	1/2"	----
20826*	12	3/8"	----
20827*	12	1/2"	----

* Global Thread
▪ BSPP Available

Also available:
- 45° elbow swivel
- 4 position Y
- Manifolds
- Extended swivel elbows
- Bulkhead union
- Plug-in elbows and tees

A man's ancestry is a positive property to him.

- Edward Bulwer-Lytton

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN TUBE FITTINGS



Meets D.O.T. FMVSS 571.106 SAE J1131 Air Brake System Require-

Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O'ring standard. Viton and others available per request. Secure tube retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than con-

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon® based pipe sealant to provide for easy assembly and leak proof seal.

- **Materials:**

Brass
"O" Ring: Buna - Nitrile (90 Durometer)
EP (Ethylene Propylene)

- **Working Pressures & Temperature Ranges**

Vacuum to 150 PSI
-40°F to 200° F (-40°C to +93°C)

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

PLUG



AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	
595320	5/32″	0.01	----
590400	1/4″	0.02	----
590600	3/8″	0.02	----
590800	1/2″	0.04	----

1829 **DQ59DOT** 639PMT

UNION



AQ62DOT
DQ62

PART #	TUBE O.D.	APPROX. WT. LBS.	
620532	5/32″	0.06	----
620400	1/4″	0.06	----
620600	3/8″	0.13	----
620604	3/8" x 1/4"	0.15	----
620800	1/2″	0.19	----
621000	5/8″	0.30	----
621200	3/4″	0.44	----

AQ62DOT **62PMT** 1862 **DQ62DOT**

UNION TEE



AQ64DOT
DQ64

PART #	TUBE O.D.	APPROX. WT. LBS.	
640400	1/4″	0.09	----
640600	3/8″	0.16	----
640800	1/2″	0.25	----
641000	5/8"	0.32	----
641200	3/4"	0.36	----

AQ64DOT **164 PMT** 1864 **DQ64DOT**

UNION ELBOW



AQ65DOT
DQ65

PART #	TUBE O.D.	APPROX. WT. LBS.	
655320	5/32″	0.03	----
650400	1/4″	0.06	----
650600	3/8″	0.12	----
650800	1/2″	0.18	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE CONNECTOR



AQ66DOT
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
660402	1/4″ x 1/8″	0.06	----
660404	1/4″ x 1/4″	0.10	----
660602	3/8″ x 1/8″	0.11	----
660604	3/8″ x 1/4″	0.11	----
660606	3/8″ x 3/8″	0.17	----
660804	1/2″ x 1/4″	0.14	----
660806	1/2″ x 3/8″	0.16	----
660808	1/2″ x 1/2″	0.25	----

AQ66DOT **66PMT** 1866 **DQ66DOT**

MALE CONNECTOR



AQ68DOT
DQ68

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
685320	5/32″ x 10/32″	0.02	----
685321	5/32″ x 1/16″	0.02	----
685322	5/32″ x 1/8″	0.02	----
680302	3/16″ x 1/8″	0.02	----
680421	1/4" x 1/16"	0.02	----
680402	1/4″ x 1/8″	0.03	----
680404	1/4″ x 1/4″	0.04	----
680406	1/4″ x 3/8″	0.07	----
680602	3/8″ x 1/8″	0.06	----
680604	3/8″ x 1/4″	0.07	----
680606	3/8″ x 3/8″	0.06	----
680608	3/8″ x 1/2″	0.13	----
680804	1/2″ x 1/4″	0.11	----
680806	1/2″ x 3/8″	0.12	----
680808	1/2″ x 1/2″	0.14	----
681006	5/8″ x 3/8″	0.18	----
681008	5/8″ x 1/2″	0.18	----
681208	3/4″ x 1/2″	0.20	----
681212	3/4″ x 3/4″	0.20	----

AQ68DOT **68PM** 1868 **DQ68DOT** 68PMT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

MALE ELBOW



Forged

AQ69DOT
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
695302	5/32" x 1/16"	0.03	----
695322	5/32" x 1/8"	0.03	----
690302	3/16" x 1/8"	0.03	----
690402	1/4" x 1/8"	0.08	----
690404	1/4" x 1/4"	0.06	----
690406	1/4" x 3/8"	0.11	----
690602	3/8" x 1/8"	0.08	----
690604	3/8" x 1/4"	0.09	----
690606	3/8" x 3/8"	0.11	----
690608	3/8" x 1/2"	0.20	----
690804	1/2" x 1/4"	0.22	----
690806	1/2" x 3/8"	0.22	----
690808	1/2" x 1/2"	0.24	----
691006	5/8" x 3/8"	0.30	----
691008	5/8" x 1/2"	0.32	----
691208	3/4" x 1/2"	0.32	----
691212	3/4" x 3/4"	0.34	----

AQ69DOT **169 PMTNS** 1869 **DQ69DOT**

MALE SWIVEL ELBOW



AQ62DOTS
DQ69S

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
695322S	5/32" x 1/8"	0.07	----
690402S	1/4" x 1/8"	0.06	----
690404S	1/4" x 1/4"	0.10	----
690406S	1/4" x 3/8"	0.10	----
690602S	3/8" x 1/8"	0.10	----
690604S	3/8" x 1/4"	0.11	----
690606S	3/8" x 3/8"	0.12	----
690608S	3/8" x 1/2"	0.20	----
690804S	1/2" x 1/4"	0.16	----
690806S	1/2" x 3/8"	0.18	----
690808S	1/2" x 1/2"	0.26	----
691006S	5/8" x 3/8"	0.28	----
691008S	5/8" x 1/2"	0.30	----
691208S	3/4" x 1/2"	0.50	----
691212S	3/4" x 3/4"	0.56	----

AQ69DOTS **169PMT** 1869 **DQ69DOTS**

A mind becomes a detriment when it acquires more intelligence than its integrity can handle.

– Cullen Hightower

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FEMALE ELBOW



Forged

AQ70DOTS
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
700402	1/4″ x 1/8″	0.06	----
700404	1/4″ x 1/4″	0.10	----
700406	1/4″ x 3/8″	0.16	----
700602	3/8″ x 1/8″	0.15	----
700604	3/8″ x 1/4″	0.12	----
700606	3/8″ x 3/8″	0.17	----
700806	1/2″ x 3/8″	0.26	----
700808	1/2″ x 1/2″	0.30	----

AQ70DOTS **1870** DQ70DOTS **170PMTNS**

FEMALE SWIVEL ELBOW



AQ70DOTS

PART #	TUBE O.D. X FEMALE NPTF	
700404S	1/4″ x 1/4"	----

MALE RUN TEE



Forged

AQ71DOT
DQ71

PART #	TUBE O.D. X MALE NPTF (1 X 3) X 2	APPROX. WT. LBS.	
710402	1/4″ x 1/8″	0.06	----
71040604	(1/4" x 3/8") x 1/4"	0.20	----
710404	1/4″ x 1/4″	0.08	----
710604	3/8″ x 1/4″	0.20	----
71060404	(3/8" x 1/4") x 1/4"	0.20	----
710606	3/8″ x 3/8″	0.17	----
71060406	(3/8" x 1/4") x 3/8"	0.20	----
710608	3/8″ x 1/2″	0.14	----
710806	1/2″ x 3/8″	0.28	----

AQ71DOT **171PMTNS** 1871 **DQ71DOT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL RUN TEE



Forged

AQ71DOTS
DQ71S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
710402S	1/4" x 1/8"	0.09	----
710404S	1/4" x 1/4"	0.11	----
710604S	3/8" x 1/4"	0.15	----
710606S	3/8" x 3/8"	0.14	----
710804S	1/2" x 1/4"	0.24	----
710806S	1/2" x 3/8"	0.24	----
710808S	1/2" x 1/2"	0.30	----

AQ71DOTS **171PMT** 1871 **DQ71DOTS**

MALE 45° ELBOW



AQ54DOT
DQ54

Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
540402	1/4" x 1/8"	0.06	----
540404	1/4" x 1/4"	0.06	----
540602	3/8" x 1/8"	0.08	----
540604	3/8" x 1/4"	0.09	----
540606	3/8" x 3/8"	0.11	----
540608	3/8" x 1/2"	0.15	----
540804	1/2" x 1/4"	0.13	----
540806	1/2" x 3/8"	0.16	----
540808	1/2" x 1/2"	0.18	----
541006	5/8" x 3/8"	0.22	----
541008	5/8" x 1/2"	0.21	----
541208	3/4" x 1/2"	0.28	----
541212	3/4" x 3/4"	0.32	----

AQ54DOT **179MTNS** 1880 **DQ54DOT**

MALE 45° SWIVEL ELBOW



AQ54DOTS
DQ54S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
540402S	1/4" x 1/8"	0.06	----
540404S	1/4" x 1/4"	0.09	----
540602S	3/8" x 1/8"	0.10	----
540604S	3/8" x 1/4"	0.11	----
540606S	3/8" x 3/8"	0.13	----
540804S	1/2" x 1/4"	0.14	----
540806S	1/2" x 3/8"	0.16	----
540808S	1/2" x 1/2"	0.18	----
541008S	5/8" x 1/2"	0.24	----

AQ54DOTS **179PMT** 1880 **DQ54DOTS**

MALE BRANCH TEE



Forged

AQ72DOT
DQ72

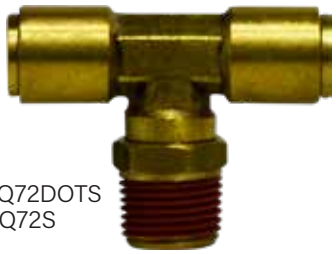
PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	
720302	3/16" x 1/8"	0.07	----
720402	1/4" x 1/8"	0.10	----
720404	1/4" x 1/4"	0.10	----
720604	3/8" x 1/4"	0.14	----
72060404	(3/8" x 1/4") x 1/4"	0.20	----
720606	3/8" x 3/8"	0.15	----
720804	1/2" x 1/4"	0.20	----
720806	1/2" x 3/8"	0.24	----
720808	1/2" x 1/2"	0.32	----
72100808	(5/8" x 1/2") x 1/2"	0.20	----

AQ72DOT **172PMTNS** 1872 **DQ72DOT**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN
BRASS FITTINGS

MALE SWIVEL BRANCH TEE

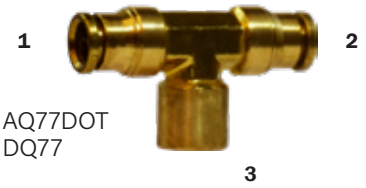


AQ72DOTS
DQ72S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
720402S	1/4" x 1/8"	0.12	----
720404S	1/4" x 1/4"	0.14	----
720602S	3/8" x 1/8"	0.19	----
720604S	3/8" x 1/4"	0.15	----
720606S	3/8" x 3/8"	0.17	----
720804S	1/2" x 1/4"	0.30	----
720806S	1/2" x 3/8"	0.34	----
720808S	1/2" x 1/2"	0.22	----

AQ72DOTS **172PMT** 1872 **DQ72DOTS**

FEMALE BRANCH TEE



AQ77DOT
DQ77

(RUN) BRANCH

PART #	(1 & 2) X 3	
770402	1/4" x 1/8"	----
770404	1/4" x 1/4"	----
770604	3/8" x 1/4"	----

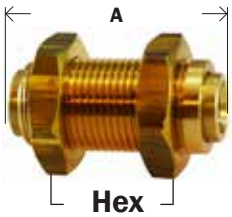
GLADHAND BULKHEAD CONNECTOR



TUBE OD X MALE NPTF

PART #	SIZE	
830808	1/2" x 1/2"	----

BULKHEAD UNION



AQ82DOT
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	
820400	1/4"	0.16	----
820600	3/8"	0.21	----
820800	1/2"	0.14	----
821000	5/8"	0.30	----

AQ82DOT **62PMTBH** 1874 **DQ82DOT**

FEMALE BULKHEAD UNION



AQ86DOT
DQ86

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
860402	1/4" x 1/8"	0.08	----
860404	1/4" x 1/4"	0.10	----
860604	3/8" x 1/4"	0.14	----
860606	3/8" x 3/8"	0.31	----
860808	1/2" x 1/2"	0.32	----

AQ86DOT **1873** DQ86DOT **66PMTBH**

- Jam nuts not available separately

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY DOT AIRBRAKE FITTINGS

WARNING

- Composite DOT push-to-connect fittings are designed only for use in applications where air is utilized as an operating fluid.
- Fittings must be used in accordance with manufacturer and industry specifications.
- They are not intended for use in environments exceeding 145psi or 140 degrees F.
- The Department of Transportation FMVSS 49CFR571-106 prohibits use of this type of fitting for connections between towed and towing vehicles or between a driveshaft and chassis.
- Using Composite DOT fittings in a manner inconsistent with manufacturer specifications may result in serious injury or property damage.
- Under no circumstances shall the supplier be liable to buyer for any consequential or incidental damages of any nature whatsoever arising from nonconformity of goods, defective goods, or delay in shipment or any other breach by seller.

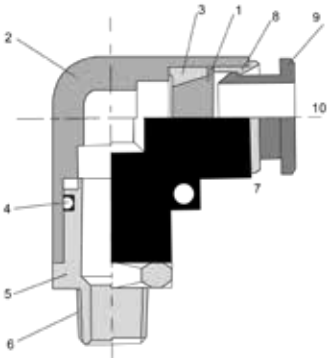
Please feel free to email warning@compdotfitting.com with any questions or concerns.



- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

SPECIFICATIONS FOR FMVSS (D.O.T.) AND SAE COMPLIANT FITTINGS

Operating Fluid	Air						
Max. Operating Pressure	145psi (1.0MPa)						
Proof Pressure	Size	5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
	At 75°F (24°C)	1200psi	1200psi	1400psi	950psi	900psi	800psi
	At 200 °F (93°C)	450psi (3.1MPa)					
Recommended Fluid and Ambient Temperature*	-40°F to 140°F (-40°C to 60°C)						
Leak Rate at -40°F (-40°C)	7 Ncm^3/min. or less						
Thread	Thread Portion	ANSI/ASME B1.20.1, 1983 R1992					
	Nut	JIS B 0208 (Unified fine thread) ISO 263					
Thread Sealant	Fluorine/ Acrylic						
Applicable Standards	D.O.T. FMVSS 49 CFR 571.106, SAE J2494-3						
Applicable Tubing	Tubing conforming to both SAE J844 and D.O.T. FMVSS 49 CFR 571.106. Material: Nylon12						
Tube O.D.	5/32", 1/4", 3/8", 1/2", 5/8", 3/4"						



1. Chuck	Stainless steel or Brass
2. Body	Polybutylene Terephthalate (PBT), Brass
3/4. Tube seal, O-Ring	Buna-N, Nitrile Rubber
5. Stud	Brass
6. Sealant	Flourine/ Acrylic
7. Guide	Stainless Steel or Polyacetal (Acetal)
8. Stabilization Ring	Stainless Steel
9. Release Button	Polyacetal, POM (Acetal)
10. Tube support	Stainless Steel/ Brass

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

STRAIGHT UNION



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
620532C	5/32	0.01	----
620400C	1/4	0.01	----
620600C	3/8	0.03	----
620800C	1/2	0.05	----
621000C	5/8	0.08	----

UNION TEE



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
645320C	5/32	0.02	----
640400C	1/4	0.02	----
640600C	3/8	0.05	----
640800C	1/2	0.07	----
641000C	5/8	0.13	----

UNION 90° ELBOW



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
655320C	5/32	0.01	----
650400C	1/4	0.02	----
650600C	3/8	0.04	----
650800C	1/2	0.05	----

FEMALE CONNECTOR



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
665302C	5/32	1/8-27	0.04	----
665304C	5/32	1/4-18	0.06	----
660402C	1/4	1/8-27	0.04	----
660404C	1/4	1/4-18	0.06	----
660406C	1/4	3/8-18	0.10	----
660602C	3/8	1/8-27	0.07	----
660604C	3/8	1/4-18	0.07	----
660606C	3/8	3/8-18	0.11	----
660608C	3/8	1/2-14	0.12	----
660802C	1/2	1/8-27	0.11	----
660804C	1/2	1/4-18	0.13	----
660806C	1/2	3/8-18	0.12	----
660808C	1/2	1/2-14	0.13	----

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT MALE CONNECTOR



PART #	APP. TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
685301C	5/32	1/16-28	0.02	----
685302C	5/32	1/8-27	0.02	----
685304C	5/32	1/4-27	0.03	----
680402C	1/4	1/8-27	0.02	----
680404C	1/4	1/4-18	0.03	----
680406C	1/4	3/8-18	0.05	----
680602C	3/8	1/8-27	0.05	----
680604C	3/8	1/4-18	0.06	----
680606C	3/8	3/8-18	0.06	----
680608C	3/8	1/2-14	0.09	----
680804C	1/2	1/4-18	0.09	----
680806C	1/2	3/8-18	0.09	----
680808C	1/2	1/2-14	0.09	----
681006C	5/8	3/8-18	0.15	----
681008C	5/8	1/2-14	0.13	----
681208C	3/4	1/2-14	0.38	----

90° MALE ELBOW

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
695322SC	5/32	1/8-27	0.03	----
690402SC	1/4	1/8-27	0.03	----
690404SC	1/4	1/4-18	0.04	----
690406SC	1/4	3/8-18	0.07	----
690602SC	3/8	1/8-27	0.07	----
690604SC	3/8	1/4-18	0.06	----
690606SC	3/8	3/8-18	0.08	----
690608SC	3/8	1/2-14	0.14	----
690804SC	1/2	1/4-18	0.07	----
690806SC	1/2	3/8-18	0.09	----
690808SC	1/2	1/2-14	0.14	----
691006SC	5/8	3/8-18	0.14	----
691008SC	5/8	1/2-14	0.18	----
691208SC	3/4	1/2-14	0.26	----

90° FEMALE ELBOW



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
705302C	5/32	1/8-27	0.03	----
705304C	5/32	1/4-18	0.05	----
700402SC	1/4	1/8-27	0.03	----
700404SC	1/4	1/4-18	0.05	----
700406SC	1/4	3/8-18	0.08	----
700602C	3/8	1/8-27	0.05	----
700604SC	3/8	1/4-18	0.07	----
700606SC	3/8	3/8-18	0.09	----
700608SC	3/8	1/2-14	0.10	----
700804C	1/2	1/4-18	0.08	----
700806SC	1/2	3/8-18	0.10	----
700808SC	1/2	1/2-14	0.11	----

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

MALE RUN TEE

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
715301C	5/32	1/16	0.05	----
715302C	5/32	1/8	0.03	----
715304C	5/32	1/4	0.04	----
710402SC	1/4	1/8-27	0.04	----
710404SC	1/4	1/4-18	0.05	----
710604SC	3/8	1/4-18	0.08	----
710606SC	3/8	3/8-18	0.10	----
710608SC	3/8	1/2-14	0.15	----
710804C	1/2	1/4-8	0.09	----
710806SC	1/2	3/8-18	0.11	----
710808C	1/2	1/2-14	0.17	----

MALE BRANCH TEE

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
725301C	5/32	1/16	0.03	----
725302C	5/32	1/8	0.03	----
725304C	5/32	1/4	0.05	----
720402SC	1/4	1/8-27	0.04	----
720404SC	1/4	1/4-18	0.05	----
720406SC	1/4	3/8-18	0.08	----
720604SC	3/8	1/4-18	0.08	----
720606SC	3/8	3/8-18	0.10	----
720608C	3/8	1/2-14	0.15	----
720804C	1/2	1/4-18	0.09	----
720806SC	1/2	3/8-18	0.11	----
720808SC	1/2	1/2-14	0.17	----
721006C	5/8	3/8	0.18	----
721008C	5/8	1/2	0.21	----

FEMALE BRANCH TEE



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
770402C	1/4	1/8-27	0.06	----
770404C	1/4	1/4-18	0.08	----
770604C	3/8	1/4-18	0.08	----
770806C	1/2	3/8	0.13	----
771004C	5/8	1/4	0.21	----

45° MALE ELBOW

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
545302C	5/32	1/8-27	0.03	----
540402SC	1/4	1/8-27	0.03	----
540404SC	1/4	1/4-18	0.04	----
540602SC	3/8	1/8-27	0.06	----
540604SC	3/8	1/4-18	0.06	----
540606SC	3/8	3/8-18	0.08	----
540608SC	3/8	1/2-14	0.13	----
540802C	1/2	1/8-27	0.08	----
540804SC	1/2	1/4-18	0.08	----
540806SC	1/2	3/8-18	0.10	----
540808SC	1/2	1/2-14	0.15	----
541006SC	5/8	3/8-18	0.14	----
541008SC	5/8	1/2-14	0.17	----
541208SC	3/4	1/2-14	0.26	----

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COMPOSITE BODY D.O.T. PUSH-IN
BRASS FITTINGS

UNION "Y"



PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.	
620553C	1/4	1/4	0.03	----
620409C	1/4	3/8	0.03	----
620555C	3/8	3/8	0.05	----
620559C	3/8	1/4	0.07	----
620557C	1/2	1/2	0.08	----

MALE BRANCH "Y"



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	
880402C	1/4	1/8	0.05	----
880404C	1/4	1/4	0.06	
880406C	1/4	3/8	0.09	----
620604C	3/8	1/4-18	0.09	----
620606C	3/8	3/8-18	0.12	----
620806C	1/2	3/8-18	0.13	----
620808C	1/2	1/2-14	0.15	----

BULKHEAD UNION



PART #	TUBE OD (INCH)	THREAD (UNF)	APPROX. WT. LBS.	
825320C	5/32	1/2-20	0.07	----
820400C	1/4	9/16-18	0.07	----
820600C	3/8	7/8-14	0.19	----
820800C	1/2	1-12	0.26	----
821000C	5/8	1 1/8-12	0.42	----

FEMALE BULKHEAD CONNECTOR



PART #	APP. TUBE OD (INCH)	THREAD NPT	T (UNF)	APPROX. WT. LBS.	
865304C	5/32	1/4-18	1/2-20	0.08	----
860402C	1/4	1/8-27	9/16-18	0.01	----
860404C	1/4	1/4-18	9/16-18	0.08	----
860604C	3/8	1/4-18	7/8-14	0.20	----
860606C	3/8	3/8-18	7/8-14	0.20	----
860806C	1/2	3/8-18	1-12	0.26	----
860808C	1/2	1/2-14	1-12	0.27	----









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D.O.T. AIR BRAKE – NYLON TUBING



Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

▪Typical Application
Air brake systems except where temperatures exceed +200^{0}F or where battery acid can drip on tubing.

▪Pressure
Maximum operating pressure of 150 PSI.

▪Vibration
Fair resistance.

▪Temperature Range
-40^{0}F to +200^{0}F (-40^{0}C to +93^{0}C).

▪Material
Brass

▪Used With
NT Nylon Tubing - SAE J844 Type A and B.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

▪Advantages
Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

▪Conformance
Meets specifications and standards of SAE and DOT FMVSS 571,106.

▪Assembly Instructions
1- Cut tubing to desired length.
2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
4- Tighten nut to required torque as indicated on chart.

Disassembling: Remove nut and pull tubing out of fitting body. Insert will remain in tubing.
Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

SLEEVE

SAE# 100115



60NA
NT60

PART #	TUBE O.D.	APPROX. WT. LBS.	
38000	3/16"		----
38001	1/4"	0.01	----
38002	3/8"	0.01	----
38003	1/2"	0.01	----
38004	5/8"	0.01	----
38005	3/4"	0.01	----

60NAB **60NTA** 1460

NUT

SAE# 100110



62NA
NT61

PART #	TUBE O.D.	APPROX. WT. LBS.	
38009	3/16"		----
38010	1/4"	0.02	----
38011	3/8"	0.03	----
38012	1/2"	0.05	----
38013	5/8"	0.06	----
38014	3/4"	0.09	----

61NAB **61NTA** 1461

UNION

SAE# 100101BA



62NA
NT62

PART #	TUBE O.D.	APPROX. WT. LBS.	
38018	3/16"		----
38019	1/4"	0.07	----
38020	3/8"	0.11	----
38021	1/2"	0.20	----
38022	5/8"	0.25	----
38023	3/4"	0.40	----

62NAB **62NTA** 1462

BULKHEAD UNION



62NABH
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.	
38028	1/4"	0.11	----
38029	3/8"	0.16	----
38030	1/2"	0.26	----

62NBH **1474** 475

STAINLESS STEEL INSERT

- 300 SERIES STAINLESS
- For SAE# J844 TUBING



AQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	
38035	1/4"	0.01	----
38036	3/8"	0.01	----
38037	1/2"	0.01	----
38038	5/8"	0.01	----
38039	3/4"	0.01	----

59A **63NTA**

BRASS INSERT



AQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	
38040	1/4"	0.01	----
38041	3/8"	0.01	----
38042	1/2"	0.01	----
38043	5/8"	0.01	----
38048	3/4"	0.02	----

1484 **463**

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D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

TEE

SAE# 100401BA



64NA
NT64

PART #	TUBE O.D.	APPROX. WT. LBS.	
38044	1/4″	0.12	----
38045	3/8″	0.19	----
38046	1/2″	0.36	----
38047	5/8″	0.48	----

64NAB **264NTA** 1464

REDUCING BRANCH TEE



PART #	TUBE O.D. (1&2) X 3	APPROX. WT. LBS.	
38049	3/8″ x 1/4″	0.24	----
38057	1/2″ x 3/8″	0.30	----

ELBOW

SAE# 100201BA



65NA
NT65

PART #	TUBE O.D.	APPROX. WT. LBS.	
38052	1/4″	0.09	----
38053	3/8″	0.13	----
38054	1/2″	0.15	----
38055	5/8″	0.36	----

65NAB **265NTA** 1465

FEMALE ADAPTER

SAE# 100103BA



66NA
NT66

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	
38060	1/4″ x 1/8″	0.06	----
38061	1/4″ x 1/4″	0.08	----
38062	3/8″ x 1/8″	0.07	----
38063	3/8″ x 1/4″	0.10	----
38064	3/8″ x 3/8″	0.14	----
38065	1/2″ x 3/8″	0.16	----
38066	1/2″ x 1/2″	0.20	----
38067	5/8″ x 3/8″	0.28	----
38068	5/8″ x 1/2″	0.28	----
38059	3/4" x 1/2"	0.31	

66NAB **66NTA** 1466 **66NBH**

If you watch a game, it's fun. If you play it, it's recreation.
If you work at it, it's golf.

– Bob Hope

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MALE ADAPTER

SAE# 100102BA



68NA
NT68VS

- More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38072	1/4" x 1/16"	0.05	----
38073	1/4" x 1/8"	0.05	----
38074	1/4" x 1/4"	0.06	----
38075	1/4" x 3/8"	0.08	----
38076	3/8" x 1/8"	0.07	----
38077	3/8" x 1/4"	0.08	----
38078	3/8" x 3/8"	0.10	----
38079	3/8" x 1/2"	0.14	----
38080	1/2" x 1/4"	0.13	----
38081	1/2" x 3/8"	0.14	----
38082	1/2" x 1/2"	0.18	----
38087	1/2" x 3/4"	0.23	----
38083	5/8" x 3/8"	0.17	----
38084	5/8" x 1/2"	0.21	----
38088	5/8" x 3/4"	0.25	----
38085	3/4" x 1/2"	0.28	----
38086	3/4" x 3/4"	0.30	----

68NAB **68NTA** 1468

SWIVEL MALE ADAPTER



PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38078S	3/8" x 3/8"	0.18	----
38081S	1/2" x 3/8"	0.22	----

MALE ELBOW

SAE# 100202BA



69NA
NT69VS

- More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38091	1/4" x 1/8"	0.06	----
38092	1/4" x 1/4"	0.08	----
38093	1/4" x 3/8"	0.13	----
38094	3/8" x 1/8"	0.09	----
38095	3/8" x 1/4"	0.11	----
38090	3/8" x 1/4" LONG	0.14	----
38101	3/8" x 3/8"	0.14	----
38102	3/8" x 1/2"	0.20	----
38103	1/2" x 1/4"	0.16	----
38104	1/2" x 3/8"	0.20	----
38109	1/2" x 3/8" LONG	0.26	----
38105	1/2" x 1/2"	0.29	----
38106	5/8" x 3/8"	0.26	----
38107	5/8" x 1/2"	0.32	----
38110	5/8" x 3/4"	0.40	----
38108	3/4" x 1/2"	0.43	----
38111	3/4" x 3/4"	0.51	

SWIVEL MALE ELBOW



269NTA **1469**

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38101S	3/8" x 3/8"	0.28	----
38104S	1/2" x 3/8"	0.32	----

FEMALE ELBOW

SAE# 100203BA



70NA
NT70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
38113	1/4" x 1/8"	0.08	----
38114	1/4" x 1/4"	0.12	----
38115	3/8" x 1/8"	0.14	----
38116	3/8" x 1/4"	0.10	----
38117	3/8" x 3/8"	0.12	----
38118	1/2" x 3/8"	0.23	----
38119	1/2" x 1/2"	0.36	----

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D.O.T. AIR BRAKE - NYLON TUBING
BRASS FITTINGS

MALE RUN TEE

SAE# 100424BA



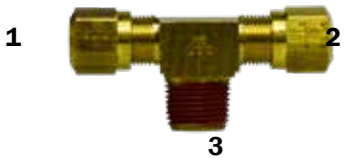
71NA
NT71VS

PART #	TUBE O.D. X MALE NPTF X TUBE O.D. 1X2X3	APPROX. WT. LBS.	
38125	1/4" x 1/8" x 1/4"	0.10	----
38126	1/4" x 1/4" x 1/4"	0.13	----
38124	3/8" x 1/4" x 1/4"	0.14	----
38127	3/8" x 1/4" x 3/8"	0.17	----
38128	3/8" x 3/8" x 3/8"	0.20	----
38129	1/2" x 3/8" x 1/2"	0.30	----

71NAB **271NTA** 1471

MALE BRANCH TEE

SAE# 100425BA

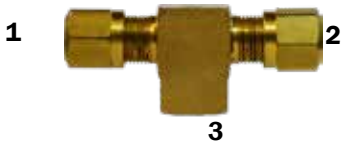


72NA
NT72VS

PART #	TUBE O.D. X TUBE O.D. X MALE NPTF 1X2X3	APPROX. WT. LBS.	
38136	1/4" x 1/4" x 1/8"	0.10	----
38137	1/4" x 1/4" x 1/4"	0.13	----
38138	3/8" x 3/8" x 1/8"	0.14	----
38132	3/8" x 1/4" x 1/4"	0.15	----
38139	3/8" x 3/8" x 1/4"	0.17	----
38133	1/2" x 1/2" x 1/4"	0.26	----
38140	3/8" x 3/8" x 3/8"	0.21	----
38134	1/2" x 3/8" x 3/8"	0.26	----
38141	1/2" x 1/2" x 3/8"	0.30	----
38142	1/2" x 1/2" x 1/2"	0.37	----
38143	5/8" x 5/8" x 1/2"	0.44	----

72NAB **272NTA** 1472

FEMALE BRANCH TEE



PART #	TUBE O.D. X TUBE O.D. X FEMALE NPTF 1X2X3	APPROX. WT. LBS.	
38144	3/8" x 3/8" x 1/4"	0.21	----
38146	5/8" x 5/8" x 1/4"	0.48	----

45° ELBOW

SAE# 100302BA



6945NA
NT6945VS

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38148	1/4" x 1/8"	0.06	----
38149	1/4" x 1/4"	0.08	----
38150	3/8" x 1/8"	0.09	----
38151	3/8" x 1/4"	0.11	----
38152	3/8" x 3/8"	0.14	----
38153	3/8" x 1/2"	0.24	----
38157	1/2" x 1/4"	0.18	----
38154	1/2" x 3/8"	0.19	----
38155	1/2" x 1/2"	0.25	----
38156	5/8" x 1/2"	0.30	----
38158	3/4" x 1/2"	0.38	----

6945NAB **279NTA** 1480

SWIVEL 45° ELBOW



PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
38152S	3/8" x 3/8"	0.20	----
38154S	1/2" x 3/8"	0.24	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - COPPER TUBING

BRASS FITTINGS

SLEEVE

SAE# 120115BA



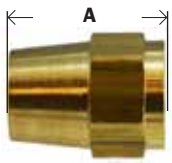
60AB
AB60

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38161	1/4"	0.25	0.01	----
38162	3/8"	0.31	0.02	----
38163	1/2"	0.38	0.02	----
38164	5/8"	0.44	0.02	----
38165	3/4"	0.50	0.04	----

60AB **1360**

NUT

SAE# 120111BA



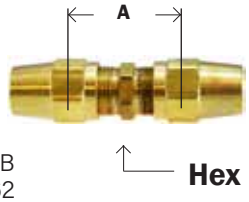
61AB
AB61

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
38170	1/4"	0.75	0.56	0.02	----
38171	3/8"	1.13	0.62	0.04	----
38172	1/2"	1.25	0.81	0.08	----
38173	5/8"	1.38	0.94	0.12	----
38174	3/4"	1.56	1.12	0.18	----

20961 **61AB** 1361

UNION

SAE# 120101BA



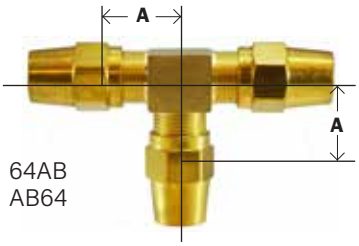
62AB
AB62

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	
38179	1/4"	0.81	0.44	0.08	----
38180	3/8"	1.10	0.56	0.14	----
38181	1/2"	1.07	0.69	0.24	----
38182	5/8"	1.41	0.81	0.34	----
38183	3/4"				----

62AB **1362**

TEE

SAE# 120401BA



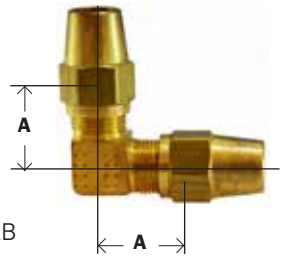
64AB
AB64

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38188	1/4"	0.62	0.16	----
38189	3/8"	0.82	0.24	----
38190	1/2"	0.94	0.48	----
38191	5/8"			

264AB **1364**

ELBOW

SAE# 120201BA



65AB
A65

PART #	TUBE O.D.	A	APPROX. WT. LBS.	
38196	1/4"	0.62	0.10	----

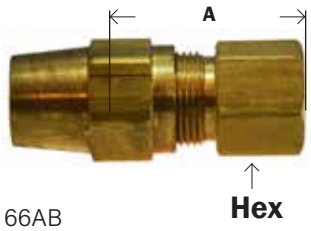
265AB **1365**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - COPPER TUBING
BRASS FITTINGS

FEMALE ADAPTER

SAE# 120103BA



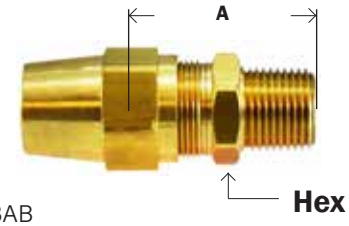
66AB
AB66

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	
38204	1/4" x 1/8"	0.84	0.56	0.08	----
38205	1/4" x 1/4"	1.07	0.68	0.10	----
38206	3/8" x 1/8"	1.00	0.56	0.10	----
38207	3/8" x 1/4"	1.19	0.68	0.12	----
38208	3/8" x 3/8"	1.18	0.87	0.16	----
38209	1/2" x 3/8"	1.27	0.87	0.18	----
38210	1/2' x 1/2"	1.44	1.06	0.20	----
38211	5/8" x 3/8"	1.31	0.87	0.24	----
38212	5/8" x 1/2"	0.50	1.06	0.26	----
38213	3/4" x 1/2"				----

66AB **1366**

MALE ADAPTER

SAE# 120102BA



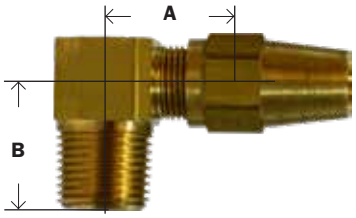
68AB
AB68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	
38217	1/4" x 1/8"	0.88	0.43	0.06	----
38218	1/4" x 1/4"	0.97	0.56	0.08	----
38221	3/8" x 1/4"	1.09	0.56	0.10	----
38222	3/8" x 3/8"	1.19	0.69	0.12	----
38223	3/8" x 1/2"	1.45	0.87	0.18	----
38224	1/2" x 1/4"	1.32	0.69	0.16	----
38225	1/2" x 3/8"	1.35	0.69	0.18	----
38226	1/2" x 1/2"	1.51	0.87	0.24	----
38227	5/8" x 3/8"	1.39	0.81	0.22	----
38228	5/8" x 1/2"	1.57	0.87	0.24	----
38229	3/4" x 1/2"	1.67	1.00	0.34	----

68AB **368**

90° MALE ELBOW

SAE# 120202BA



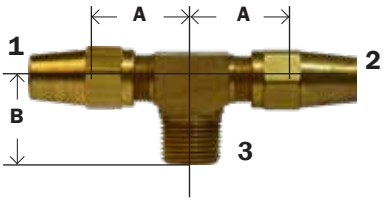
69AB
AB69

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.	
38235	1/4" x 1/8"	0.64	0.76	0.08	----
38236	1/4" x 1/4"	0.69	0.88	0.10	----
38237	1/4" x 3/8"	0.73	0.86	0.14	----
38239	3/8" x 1/4"	0.80	0.93	0.12	----
38240	3/8" x 3/8"	0.83	0.90	0.16	----
38241	3/8" x 1/2"				----
38243	1/2" x 3/8"	0.92	0.98	0.22	----
38244	1/2" x 1/2"	1.04	1.19	0.30	----
38246	5/8" x 1/2"	1.10	1.25	0.36	----

269AB **1369**

MALE BRANCH TEE

SAE# 120425BA



72AB
AB72

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	
38278	3/8" x 1/4"	0.78	0.91	0.18	----
38279	3/8" x 3/8"	0.85	0.92	0.24	----

272AB **1372**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS



▪Typical Application
Air Brake hose connections.
Meets SAE & DOT specifications
(FMVCS 10 GAL)

▪Pressure
Determined by maximum working pressure for hose size. Up to 125 psi

Temperature: -40^{0}F to + 120^0 F (-40°C to +48°C)

▪Advantages
Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

▪ Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

▪Assembly Instructions
1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
2- Push hose into fitting until it bottoms.
3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

SLEEVE

FERRULE

60HE
HE60



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38300	3/8″	0.02	----
38301	1/2″	0.02	----

#60HC 3380-A 0903610 367 60RB

NUT

61HE
HE61



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38306	3/8″	0.04	----
38307	1/2″	0.06	----

61RB **#61HC** 369 **3380-B** 0903624

NUT FOR USE WITH SPRING

61HES
HE61N



PART #	HOSE I.D. SIZE	THREAD	APPROX. WT. LBS.	
38312	3/8″	31/32-20	0.04	----
38313	1/2″	1-3/32-20	0.06	----

#61HCS **0903613** 3380-D **61RBSG**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ ENDS
BRASS FITTINGS

SPRING



61HSG
HE61G

PART #	HOSE I.D.	APPROX. WT. LBS.	
38351	3/8″	0.20	----
38352	1/2″	0.22	----

#60SG **0901045** 3380-C **377**

NUT AND SPRING ASSEMBLY



HE61NG

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	
38015	3/8″	0.18	----
38016	1/2″	0.24	----

379 **67RBSG** 0999999

UNION



62HE
HE62

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	
38318	3/8″	31/32-20	0.32	----
38319	1/2″	1-1/8-20	0.48	----

#62HC **3380B-Y0** 362



BODY ONLY

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	
39318	3/8″	31/32-20	0.32	----
39319	1/2″	1-1/8-20	0.48	----

FEMALE CONNECTOR HOSE



66HEA

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	
38357	3/8″ x 3/4-20	0.24	----
38358	1/2″ x 7/8-20	0.39	----

#66ABS **66RBSV** 3380B-Y7 **386**



BODY ONLY

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	
39357	3/8″ x 3/4-20	0.24	----
39358	1/2″ x 7/8-20	0.38	----

MALE CONNECTOR



68HEA
HE68S

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38363	3/8″ x 1/4″	0.38	----
38364	1/2″ x 3/8″	0.46	----

#68ABS **09155** 3380B-Y8 **387**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ENDS

BRASS FITTINGS

ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED



68HEAB
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.	
38369	3/8" x 1/4"	3/4-20	0.05	----
38368	3/8" x 3/8"	3/4-20	0.08	----
38372	3/8" x 1/2"	3/4-20	0.12	----
38370	1/2" x 3/8"	7/8-20	0.10	----
38371	1/2" x 1/2"	7/8-20	0.12	----

#68ABS **1390** 76RB **388**

MALE ADAPTER



68HE
HE68

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38333	3/8" x 1/4"	0.22	----
38334	3/8" x 3/8"	0.24	----
38335	3/8" x 1/2"	0.26	----
38336	1/2" x 3/8"	0.33	----
38337	1/2" x 1/2"	0.36	----

#68HC **368** 3380B-Y2 **68RB**

ADAPTER BODY



68HEB
HE68B

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38324	3/8" x 1/4"	0.12	----
38325	3/8" x 3/8"	0.14	----
38326	3/8" x 1/2"	0.20	----
38327	1/2" x 3/8"	0.18	----
38328	1/2" x 1/2"	0.20	----

#68B **W1391Z**

MALE ADAPTER



68HES
HE68G

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	
38342	3/8" x 1/4"	0.32	----
38343	3/8" x 3/8"	0.34	----
38344	3/8" x 1/2"	0.38	----
38345	1/2" x 3/8"	0.48	----
38346	1/2" x 1/2"	0.52	----

#68HCS **3380B-Y3** 68RBSG **378**

"The man who removes a mountain begins
by carrying away small stones."

- Chinese Proverb

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

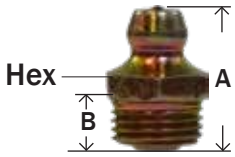
• 8000 PSI MAX. PRES-
• EXCEEDS 12HR SALT

Meets SAE #J-534C

Many types available on special order.

• ASSORTMENTS ALSO

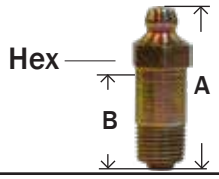
PIPE THREAD — BALL CHECK - 1/8-27 NPTF



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01	----
36110SS	303 SS	0.68	0.29	0.437	0.01	----
36111	Thread Forming	0.62	0.23	0.437	0.01	----

#610 **1610** 2800 **1720** 5000

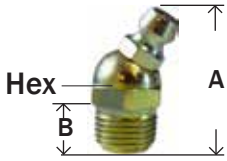
PIPE THREAD — BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02	----
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02	----

#607 **1607** 2800 **1669** 5003

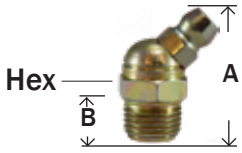
PIPE THREAD — 30° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01	----

#611 **1611** 2830 **5100**

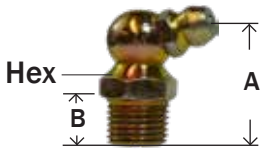
PIPE THREAD — 45° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01	----
36116SS	303 SS	0.95	0.29	0.437	0.01	----

#688 **1688** 2845 **5200**

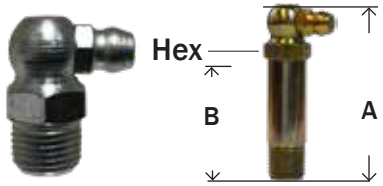
PIPE THREAD — 65° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01	----

#612 **1612** 2865 **5300**

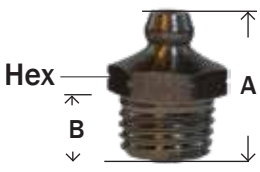
PIPE THREAD — 90° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01	----
36120SS	303 SS	0.84	0.29	0.437	0.01	----
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01	----

#613 **1613** 2890 **5400** 5407

PIPE THREAD — BALL CHECK - 1/4-18 NPTF



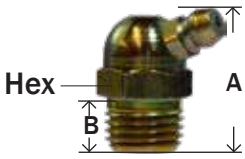
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02	----
36130SS	303 SS	0.87	0.42	0.437	0.02	----

#627 **1627** 2900K **5050**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS
BRASS FITTINGS

PIPE THREAD

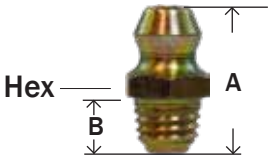


65° ANGLE BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02	----

#629 **1629** 2965 **5350**

1/4-28 TAPER THREAD

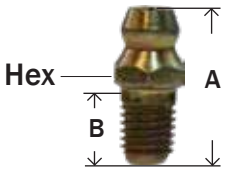


SHORT BALL CHECK - 1/4-28 NPTF

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01	----
36140SS	303 SS	0.54	0.18	0.31	0.01	----
36141	Thread Forming	0.55	0.10	0.31	0.01	----

#641 **1641** 2400 **3038** 5010

1/4-28 TAPER THREAD

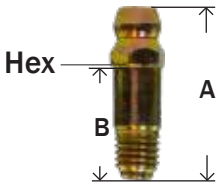


LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01	----

#652 **1652** 2400 **5013**

1/4-28 TAPER THREAD

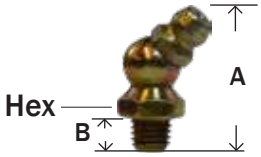


EXTRA LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02	----

#680 **1680** 2400 **5014**

1/4-28 TAPER THREAD

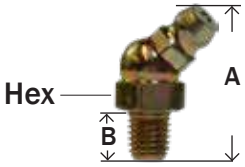


SHORT 45° BALL CHECK

PART #	SIZE	ANGLE	A	B	HEX	APPROX. WT. LBS.	
36146	1/4"-28 Taper Thread	45°	0.82	0.20	0.375	0.02	----
36146SS	303 SS	45°	0.81	0.20	0.375	0.02	----

#637 **1637** 2445 **1665** 2465 **3010** 5210

1/4-28 TAPER THREAD

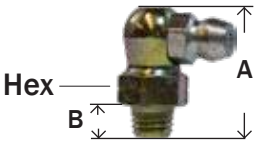


LONG 45° BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02	----

#636 **1630** 2445

1/4-28 TAPER THREAD



90° ANGLE BALL CHECK **SAE# A515002**

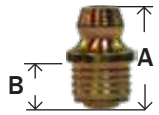
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36150	1/4"-28 Taper Thread	0.75	0.10	0.375	0.02	----
36150SS	303 SS	0.75	0.20	0.375	0.02	----
36152	Thread Forming	0.75	0.16	0.375	0.02	----

#911 **1911** 2490 **3054** 5410

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS
BRASS FITTINGS

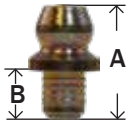
DRIVE TYPE — BALL CHECK Drive Type



PART #	SIZE	A	B	APPROX. WT. LBS.	
36160	5/16"	0.55	0.25	0.01	----

#608 **1608** 5021

DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	
36164	3/16"	0.52	0.25	0.01	----
36164SS	303 SS	0.51	0.25	0.01	----

#728 **1728** 2316 **5033**

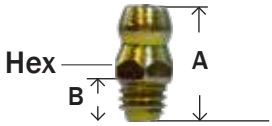
DRIVE TYPE — BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	
36166	1/4"	0.55	0.23	0.01	----
36166SS	303 SS	0.55	0.23	0.01	----

#743 **1743** 214 **5029**

METRIC

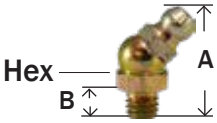


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36168	6MM x 1	16	3.7	7	0.01	----

(Diameter x Pitch)

#711 **6000** 2106 **2M6** 5175

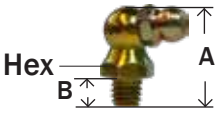
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36170	6MM x 1	21	3.7	9	0.02	----

#712 **6045** 2107 **5176**

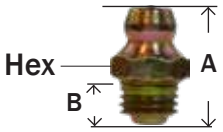
METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36172	6MM x 1	18	3.7	9	0.02	----

#713 **6090** 2108 **ZM906** 5177

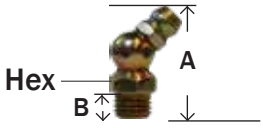
METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36174	8MM x 1	16	3.7	9	0.02	----

#811 **8000** 2103 **ZM58** 5178

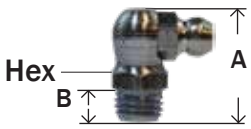
METRIC — 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36176	8MM x 1	21	3.7	9	0.02	----

#812 **8045** 2104 **ZM458** 5179

METRIC — 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36178	8MM x 1	18	3.7	9	0.02	----

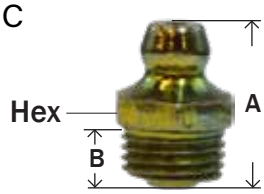
#813 **8090** 2105 **ZM908** 5180

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

METRIC

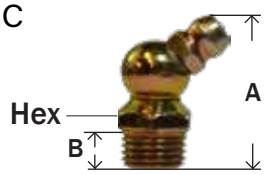


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36180	10MM x 1	16	3.7	11	0.02	----

• DIAMETER X PITCH (EXTRA FINE)

#911 **9000** 2109 **ZM510** 5181

METRIC

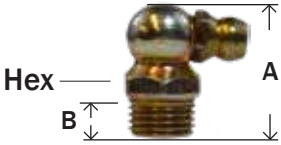


45° ANGLE

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36182	10MM x 1	21	3.7	11	0.02	----

#912 **9045** 2110 **ZM4510**

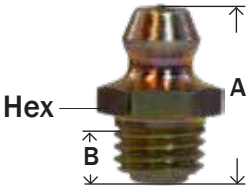
METRIC



90° ANGLE

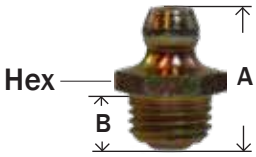
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	
36184	10MM x 1	18	3.7	11	0.02	----

#913 **9090** 2111 **ZM9010** 5183



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36186	5/16"-24	0.65	0.12	0.375	0.02	----

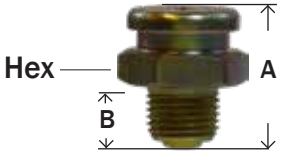
#711-B **1711** 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36188	3/8"-24	0.65	0.14	0.437	0.01	----

#710-B **1710** 2600

BUTTON HEAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	
36200	1/8"-27 PTF	0.75	0.34	0.625	0.03	----
36205	1/4"-18 NPT	0.83	0.44	0.625	0.03	----

1184 **1186**

WHIP HOSE - EXCEEDS SAE 100R1-AT - USE WITH HAND GREASE GUNS ONLY

10,000 PSI BURST PRESSURE RUB-



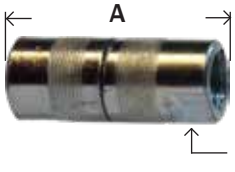
1/8" NPT SOLID
3/16" ID

3,000 PSI WORKING PRESSURE

PART #	LENGTH	
36210	12" RUBBER	----
36212	18" RUBBER	----
36214	24" RUBBER	----
36216	36" RUBBER	----

4 JAW GREASE GUN COUPLER

PROVIDES QUICK, POSITIVE, LEAKPROOF CONNECTION W/ GREASE



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.	
36220	1.50	0.56	0.05	----

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ADAPTERS FOR GREASE FITTINGS

ADAPTERS

• CARBON STEEL, ZINC COATED



PART #	FEMALE	MALE	L	H	WEIGHT	
36300	1/8"-27 NPTF	1/4-28" SAE-LT	.75	1/2	0.02	----
36301	1/8"-27 NPTF	1/4-28" SAE-LT	.87	1/2	0.02	----



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	
36304	1/4"-28 UNF	M6 x 1.0	.43	9mm	0.01	----
36305	1/4"-28 UNF	M8 x 1.0	.45	3/8	0.01	----
36306	1/4"-28 UNF	M10 x 1.0	.32	7/16	0.01	----

EXTENSIONS



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01	----
36308	1/8"-27 NPTF	1/8"-27 NPTF	.75	1/2	0.02	----
36309*	1/8"-27 NPTF	1/8"-27 NPTF	.82	1/2	0.02	----
36310	1/8"-27 NPTF	1/8"-27 NPTF	.94	9/16	0.04	----
36311	1/8"-27 NPTF	1/8"-27 NPTF	1.25	1/2	0.04	----

*BRASS PLATED

45° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H	WEIGHT	
36360	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.02	----
36362	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----

90° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H		
36370	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.03	----
36371	1/8"-27 NPTF	1/4"-28 SAE-LT	1.04	1/2	0.03	----
36372	1/8"-27 NPTF	1/4"-18 PTF SAE Short	1.19	9/16	0.06	----
36374	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----
36375	1/8"-27 NPTF	1/8"-27 NPTF	1.13	1/2	0.03	----
36377	1/4"-18 NPTF	1/4"-18 NPTF	1.34	11/16	0.08	----
36376	1/8"-27 NPTF	1/8"-27 NPTF	1.50	5/8	0.07	----
36373	1/8"-27 PTF SPL Extra Short	1/8"-27 PTF SPL Extra Short	.82	1/2	0.03	----

COUPLING



PART #	FEMALE	FEMALE	L	H	WEIGHT	
36340	1/4"-28 UNF	1/8"-27 NPTF	.65	1/2	0.02	----

BULKHEAD CONNECTOR



PART #	FEMALE	MALE (FEMALE)	L	H	WEIGHT	
36350	1/8"-27 NPTF	1/8"-27 NPSM (1/4"-28 UNF)	.88	1/2	0.03	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIALTY VALVES AND COCKS





DRAIN COCKS



AIR VALVES



3, 4 AND 6 WAY



NEEDLE

MARINE & ANTI-SIPHON



PANEL MOUNT BALL VALVES





TRUCK



MINI BALL

SOLID BOTTOM SHUT-OFF





CHECK

SPRING BOTTOM SHUT-OFF



See our valve section for much, much more!

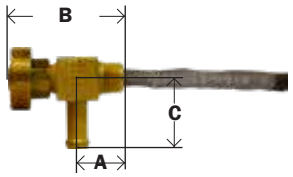
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS

- For use with low pressure air, water and fluids.
- Designed for a working pressure of 150 psi @ 250°.
- Hand-tightening provides a metal-to-metal seal.
- Not intended for natural gas, LPG, nuclear or aircraft applications.

Install on your tank for easy draining

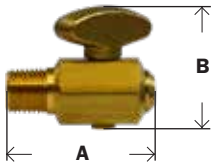
GASOLINE SHUT OFF W/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.	
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06	----

827

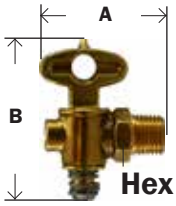
DRAIN COCK 150 PSI - TRUNK AIR TANK



PART #	MALE PIPE	A	B	APPROX. WT. LBS.	
46066	1/4"	1.73	1.41	0.22	----

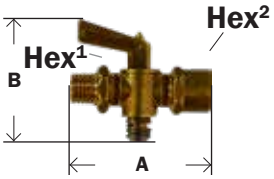
DCR601-4

TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	
46067	1/8"		1.53	1.95	0.62	0.14	----

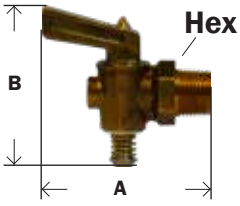
SHUT OFF - 150 P.S.I MAX.



PART #	MALE PIPE X FEMALE PIPE	INDUSTRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20	----

#60HC **3380-A** 0903610 **367**

LEVER HANDLE



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	
46070	1/8"	M-41-P	1.99	1.80	0.62	0.04	----
46071	1/4"	M-42-P	2.06	1.81	0.62	0.06	----
46072	3/8"	M-43-P	2.30	2.29	0.81	0.08	----
46073	1/2"	M-44-P	3.00	2.50	0.87	0.16	----

- 30 psi

*Valve is closed when handle is in the position of the picture

840 **41D** DC601

AIR TANK DRAIN PULL VALVE

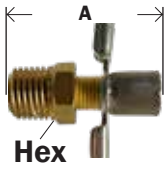


PART #	SIZE	DESCRIPTION	
39595	1/4" male	5ft nylon coated pull cable	----
39596	1/4" male	4ft nylon coated pull cable	----
39597	1/4" male	3ft nylon coated pull cable	----
39600	1/4" male	Air valve only	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS
BRASS FITTINGS

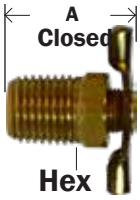
INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46079	1/8"	6783	1.45	0.55	0.02	----

DC602 **808** 400A **1800A**

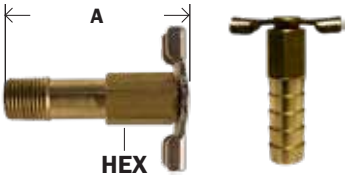
INTERNAL SEAT - WING NUT HANDLE



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46074	1/8"	130	0.92	0.40	0.04	----
46075	1/4"	140	0.94	0.56	0.06	----
46077	3/8"	230	1.27	0.68	0.08	----

HB - 5/16 **803** 305A

LONG INTERNAL SEAT



PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.	
46078	1/8 MIP	1.85				----
46076	3/8" Hose I.D.		1.65	0.43	0.02	----

809

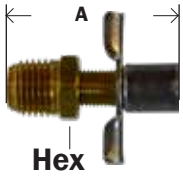
PIN HANDLE - INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46080	1/8"	M-200-P	1.22	0.50	0.04	----
46081	1/4"	M-201-P	1.31	0.56	0.06	----
46082	3/8"	M-202-P	1.53	0.68	0.12	----

DC603 **802**

EXTERNAL SEAT W/ SPOUT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	
46084*	1/4"	6788	1.56	0.56	0.02	----

* Replaces GM # 511771 & Chrysler #836015

200A **239** DC606 **807**

BIBB VALVE



PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.	
46088	1/8"	150	0.82	1.60	0.55	0.04	----
46089	1/4"	120	0.89	1.59	0.54	0.06	----
46089A	1/4"	6660	0.55	1.34	0.66	0.06	----

* With valve closed

804 **DC607** 2019 **201DH**

RADIATOR TYPE - EXTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	IND #	A	HEX	APPROX. WT. LBS.	
46085	1/8"	M-320-P	135	0.90	0.43	0.02	----
46086	1/4"	M-321-P	145	1.00	0.56	0.04	----
46087	3/8"	M-322-P	270	1.25	0.68	0.08	----
46083	1/2"	108	108	1.48	0.87	0.12	----

320D **240** DC604 **801**

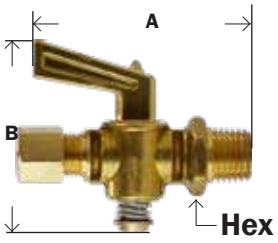
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SHUT-OFF COCKS

BRASS FITTINGS

- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.
- Instantaneous off-on operation with 360° rotation.
- Not good for gasoline.

COMPRESSION X MALE PIPE

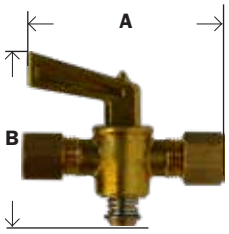


PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	
46130	1/4″ x 1/8″	27-C	1.87	1.81	0.51	0.14	----
46131	1/4″ x 1/4″	227-C	2.05	1.86	0.62	0.15	----
46132	5/16″ x 1/8″	29-C	2.05	1.90	0.50	0.16	----
46134	3/8″ x 1/4″	57-C	2.05	1.83	0.62	0.15	----

868 **V304C** 2068 **133C** VC206

COMPRESSION X COMPRESSION

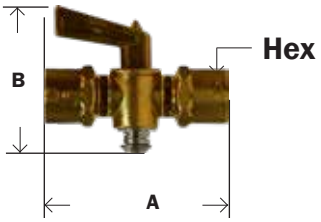
* See pg. 73-74 to order nut and sleeve separately.



PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.	
46140	1/4″	28-C	1.82	1.84	0.12	----
46141	5/16″	30-C	1.84	1.88	0.14	----
46142	3/8″	58-C	1.87	1.80	0.14	----
46143	1/2″	68-C	2.21	2.32	0.22	----

V3030F **2062** 134C

FEMALE X FEMALE PIPE

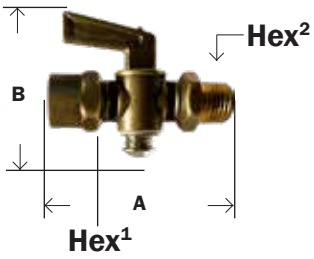


PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.	
46151	1/8″	1.77	1.79	0.56	0.12	----
46152	1/4″	2.28	1.82	0.69	0.20	----
46152T*	1/4″	2.28	2.00	0.68	0.20	----
46153	3/8″	2.44	2.28	0.81	0.30	----

* 150 PSI

V403P **132C** 875

MALE PIPE X FEMALE

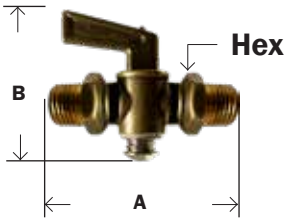


PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	
46160	1/8″	48-P	2.03	1.84	0.50	0.56	0.14	----
46161	1/4″	49-P	2.26	1.79	0.69	0.69	0.18	----
46161T*	1/4″		2.26	1.98	0.69	0.69	0.20	----
46162	3/8″	50-P	2.33	2.28	0.82	0.82	0.28	----

* 150 PSI

880 **V402P** 130C

MALE PIPE X MALE PIPE



PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	
46165	1/8″	76-P	2.15	1.80	0.69	0.12	----
46166	1/4″	77-P	2.22	1.84	0.70	0.17	----
46166T*	1/4″		2.23	2.00	0.68	0.18	----
46167	3/8″	78-P	2.43	2.24	0.82	0.22	----

* 150 PSI

1V401P **890**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES
BRASS FITTINGS

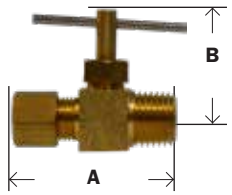
NEEDLE VALVES

THESE ARE NOT LEAD FREE SEE PAGES 169 FOR LEAD FREE PRODUCTS

Made with either pin handle or pressed on handle. Please specify if you have a preference.

- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI. or
- Provided with steel handles and metal-to-metal seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear or aircraft applications.
- Always install with pressure against the seat.

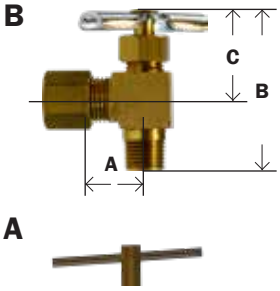
COMP X MALE PIPE



PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.	
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07	----
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10	----

NV106C **2205** 820 **3068**

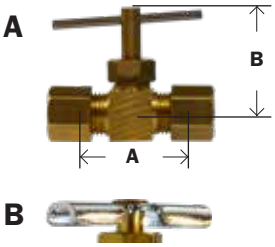
COMP X MALE PIPE-ANGLE



PART #	COMP X MALE PIPE	HAN-DLE	IND. #	A	B	C	APPROX. WT. LBS.	
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08	----
46011X	Heavy Pattern	B	M-103-C	0.53	1.53	0.83	0.08	----
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13	----
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10	----

NV104C **2203** 821 **3069**

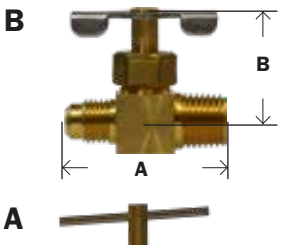
COMP X COMP



PART #	COMP X COMP	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46020	3/16"	B	M-105-C	1.06	0.88	0.08	----
46021	1/4"	A	M-106-C	1.17	1.12	0.10	----
46022	5/16"	A	M-107-C	1.22	1.08	0.12	----
46023	3/8"	B	M-113-C	1.31	1.15	0.13	----

NV105C **3062** 2201 **822**

FLARE X MALE PIPE



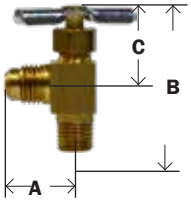
PART #	MALE FLARE X MALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46028	1/4" x 1/8"	A	M-104-SAE	1.35	1.12	0.07	----
46029	1/4" x 1/4"	B	M-1040-SAE	1.38	0.88	0.09	----
46031	3/8" x 1/4"	B	M-108-SAE	1.73	1.22	0.18	----

NV103F **2405** 823 **3048**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES
BRASS FITTINGS

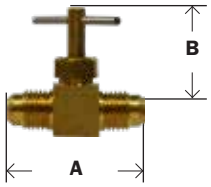
FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.	
46036	1/4″ x 1/8″	M-103-SAE	0.68	1.54	0.86	0.08	----
46038	5/16″ x 1/8″	M-203-SAE	0.88	1.59	0.94	0.11	----
46039	5/16″ x 1/4″	M-204-SAE	0.90	1.94	1.00	0.14	----
46040	3/8″ x 1/4″	M-303-SAE	0.95	1.86	0.90	0.17	----

NV101F **2403** 824 **3049**

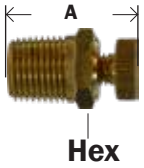
FLARE X FLARE



PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.	
46045	1/4″	M-110-SAE	1.48	1.20	0.18	----
46046	3/8″	M-115-SAE	1.79	1.19	0.20	----

NV102F **3042** 825 **2401**

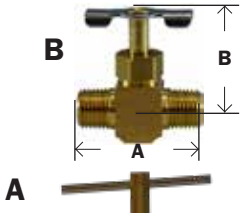
MULTI-PURPOSE AIR VENT



PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.	
46048	1/8″	0.78	0.43	0.02	----

705

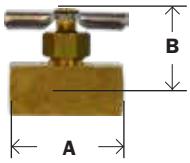
MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	
46050	1/8″	A	M-108-P	1.25	1.09	0.08	----
46051	1/4″	B	M-110-P	1.69	1.00	0.16	----

NV107P **2301** 826 **3122**

FEMALE PIPE X FEMALE PIPE

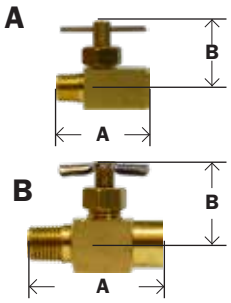


PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.	
46055*	1/8″	M-304-P	1.18	0.84	0.18	----
46056	1/4″	M-3044-P	1.60	1.24	0.21	----
46056P*	1/4″ Heavy	M-3044-P	1.62	2.53	0.20	----

* Pressed on handle

6800 **NV109P** 2304 **817** 3103

MALE X FEMALE PIPE



NBR seals -30°C to 120°C

PART #	MALE PIPE X FEMALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	
46060	1/8″	A	M-305-P	1.18	1.09	0.10	----
46061	1/4′	A	M-3055-P	1.60	1.14	0.18	----
46061L	1/4″ Light Pattern	B	M-3055-P	1.88	1.09	0.21	----

NV108P **2305** 818 **3120**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPECIALTY VALVES
BRASS FITTINGS

BRASS TRUCK VALVES

- Used in heavy duty truck, trailer and mobile markets.
- Used on water, oil and coolant lines.
- Forged brass construction with steel handle.
- Temperature range -40° - 250°
- Max pressure 250 psi
- Metal to metal seats for high heat/ fluid compatibility
- Fine thread screw down to afford flow control ability and a positive seal.
- Not intended for natural gas, LPG, Nuclear or aircraft applications

200 PSI

TV44



BARB TO MALE PIPE

PART #	SIZE	
46450	3/8 x 3/8	----
46451	5/8 x 3/8	----
46455	5/8 x 1/2	----
46457	3/4 x 3/8	----
46456	3/4 x 1/2	----

404V

TV45



FEMALE TO MALE PIPE

PART #	SIZE	
46465	3/8 x 3/8	----
46466	3/8 x 1/2	----
46467	1/2 x 1/2	----

405V

TV49



FLARE TO MALE PIPE

PART #	SIZE	
46475	1/2 x 1/2	----
46476	5/8 x 1/2	----

409V

TV412



MIP X FLARE

PART #	SIZE	
46485	1/2 x 5/8	----

SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 360⁰ rotation standard.
- 30 PSI
- Packed with grease.



8875

O-RING SEALED MIP X FIP

PART #	SIZE	
46400	1/8	----
46401	1/4	----
46402	3/8	----

1035D **M-70-SBV**

- Good for Propane



#M-72-SBV
FIP X FIP

PART #	SIZE	
46411	1/4	----

SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 90⁰ turn stop mechanism to assure positive location of the on and off positions.
- Corrosion proofed internal construction assures maximum salt atmosphere protection.
- Port hole is 1/4 (.250) diameter.
- UL listed for use in fuel oils no. 1 & no. 2, LP gas and utility gas.



PIPE MALE X FEMALE

PART #	SIZE	
46400M	1/8 x 1/8	----
46401M	1/4 x 1/4	----
46402M	3/8 x 3/8	----

8980



PIPE
MALE X MALE

PART #	SIZE	
46406M	1/4 x 1/4	----

8990

- Good for Propane



PIPE FEMALE X FEMALE

PART #	SIZE	
46411M	1/4 x 1/4	----

8975



MALE PIPE X FLARE

PART #	SIZE	
46429M	1/4 x 3/8	----
46430M	3/8 x 3/8	----

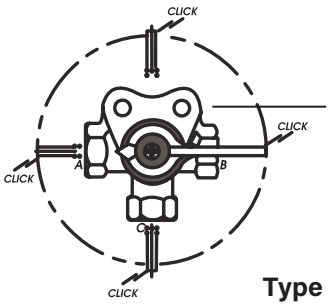
8948

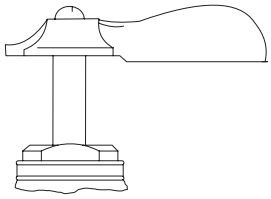
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GROUND PLUG SHUT-OFF COCKS

NON-LUBRICATED PLUG VALVES are designed to operate in systems where INSTANTANEOUS PORT SELECTION is desired. Since LUBRICANTS ARE NOT USED, relubrication is not required. There is no lubricant to freeze and lock the valve or to contaminate fine fluids. The O-RING SEALED CAP and STEM eliminate leakage to atmosphere. The mating BRASS BODY and CELCON PLUG produce a fine seal that WILL NOT SEIZE OR GALL.

Designed for PANEL or BRACKET MOUNTING. They are generally recommended for operation in GASOLINE, OIL, AIR, WATER and DETERGENT systems from minus 40⁰ to 180⁰F, at a maximum operating pressure of 30 p.s.i.g. The fluid port size is 9/32 (.281) diameter for 1/8 and 1/4 sizes, 5/16 (.312) diameter for the 3/8 size. **(Consult factory for applications**

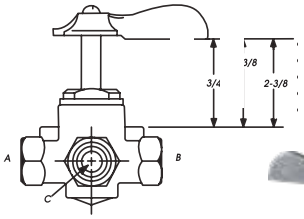




PANEL MOUNTING AVAILABLE

Type 1 (Standard)
A pronounced "click" may be felt at each position.

THREE-WAY VALVES (Side Outlet)





- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

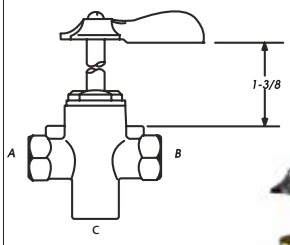
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46247	1/4	1-3/8"	----
46248	3/8	1-3/8"	----

M-108-MID WITH CLICK 360⁰

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46250	1/8	1-3/8"	----
46251	1/4	1-3/8"	----
46252	3/8	1-3/8"	----

V406P 6749

THREE-WAY VALVES (Bottom Outlet)





- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

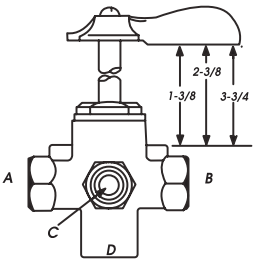
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46241	1/4	1-3/8"	----

WITH CLICK 360⁰

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	
46243	1/8	1-3/8"	----
46244	1/4	1-3/8"	----

Openings:
Handle *Pointer* over A.....Valve Open A-C
Handle *Pointer* over B.....Valve Open B-C
Handle *Pointer* over Bracket.....Valve "OFF"

FOUR-WAY VALVES





- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46257	1/4	1-3/8"	----

M-114-MID WITH CLICK (360⁰)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46255	1/4	1-3/8"	----
46256	3/8	1-3/8"	----

WITH 2-3/8" LONG STEM M-115-MID

Part #	A-B-C-D Female Pipe Thread	Length of Stem	
46260	1/4	2-3/8"	----

Openings:
Handle *Pointer* over A.....Valve Open A-D
Handle *Pointer* over C.....Valve Open C-D
Handle *Pointer* over B.....Valve Open B-D
Handle *Pointer* over Bracket.....Valve "OFF"

Openings:
Handle Pointer over A.....Valve Open A-C
Handle Pointer over C.....Valve Open B-C
Handle Pointer over B.....Valve "OFF"
Handle Pointer over Bracket.....Valve "OFF"

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MARINE FITTINGS
BRASS FITTINGS

- Calibrated to support 30" column of gasoline.



BRASS ANTI-SIPHON VALVES

PART #	SIZE	
46520	1/4 x 1/4	----
46521	3/8 x 3/8	----
46522	1/2 x 1/2	----



ALUMINUM

PART #	SIZE	
46520A	1/4 x 1/4	----
46521A	3/8 x 3/8	----

- Flo direction <-



BRASS ANTI-SIPHON VALVES
BARB X NPT

PART #	SIZE	
46529	1/4 x 1/4	----
46530	5/16 x 1/4	----
46531	3/8 x 1/4	----
46532	3/8 x 3/8	----
46533	1/2 x 3/8	----



ALUMINUM

PART #	SIZE	
46530A	5/16 x 1/4	----
46531A	3/8 x 1/4	----
46532A	3/8 x 3/8	----
46533A	1/2 x 3/8	----



MINI BALL VALVE - BRASS W/ SS HANDLE AND NUT

PART #	BARB X MIP	
46986	5/6 x 1/4	----
46987	3/8 x 1/4	----
46988	3/8 x 3/8	----
46989	1/2 x 1/2	----

- NBR O-Ring
- Working temp 180°F
- 3,000 PSI
- Brass or Aluminum
- #316 Ball & Spring



MALE MIP X FEMALE FIP BRASS

PART #	SIZE	
46523	1/4	----
46524	3/8	----



ALUMINUM

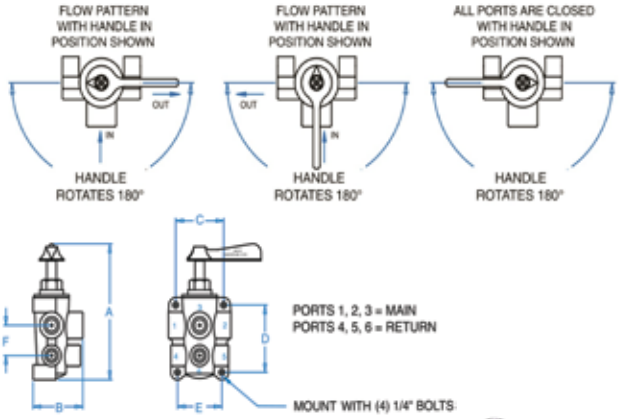
PART #	SIZE	
46523A	1/4	----
46524A	3/8	----



FLARE X MIP - BRASS

PART #	SIZE	
46526	3/8 x 1/4	----

SIX PORT VALVES



Six port fuel valves are used where 2 tanks supply a single engine, and a return to each supply tank is required.

ABYC H33.9.2 states that fuel system valves must have an independent means of support, so in-line valves are not



PART #	IND. #	FEMALE PIPE THREAD OF 1-2-3 4-5-6	STEM	LENGTH TYPE	
46237	SK-1036	1/2 x 3/8	13/16	1	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS MINIATURE BALL VALVES

- Working Pressure up to 1000 P.S.I.G.
- ASTM B-16 Corrosion Resistant Brass Body.
- Non-Adjusting Viton O-Ring Stem Seal Design Never Needs Tightening.
- Highly Inert Teflon Seats.
- Long Life Nickel Plated Brass Ball.
- Blow-Out Proof Stem for Safety.
- Temperature: -40°F to 300°F
- 1/4 Turn Instantaneous On-Off Operation.
- Quarter Turn Handle Design.
- Water, Oil, and Air Pressure Systems.
- Ideal for tight, confined areas, or when routing aesthetics are desired. Applications



MALE X FEMALE

PART #	SIZE	
46900	1/8 x 1/8	----
46903	1/4 x 1/4	----



MALE X MALE

PART #	SIZE	
46910	1/8 x 1/8	----
46912	1/4 x 1/4	----



MALE PIPE X HOSE BARB

PART #	SIZE	
47042	1/8 x 1/4	----
46980	1/4 x 1/4	----
46981	1/4 x 3/8	----

FEMALE X FEMALE



PART #	SIZE	
46920	1/8 x 1/8	----
46921	1/8 x 1/4	----
46922	1/4 x 1/4	----



PART #	SIZE	
46922A	1/4 x 1/4	----
46923	3/8 x 3/8	----



PART #	SIZE	
46924	1/2 x 1/2	----
46925	3/4 x 3/4	----

U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.



U.L. TWO WAY VALVES

PART #	SIZE	
46440	1/4 x 1/4	----



U.L. TWO WAY VALVES

PART #	SIZE	
46443	1/4 x 1/4	----

PANEL MOUNT BRASS BALL VALVES

- Working pressure: 1500 psi wog for 1/8" to 1/4", 1000 psi wog for 3/8" to 1/2"
- Vacuum rating: 29.92" Hg
- Working temp: -40°F to +300°F
- Panel mount hole is 9/16" Dia.
- Brass body cap, PTFE ball seats, Viton stem sealing, Brass chrome

FEMALE X FEMALE



PART #	SIZE	
46830	1/8 x 1/8	----
46832	1/4 x 1/4	----
46833	3/8 x 3/8	----
46834	1/2 x 1/2	----

FEMALE X FEMALE



PART #	SIZE	
46875	1/8 x 1/8	----
46878	1/4 x 1/4	----



PART #	SIZE	
46951	1/8 FPT	----
46956	1/4 FPT	----

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CHECK VALVES
BRASS FITTINGS

BRASS CHECK VALVES

- 500 PSI ▪1 PSI Cracking Pressure
- Buna-N Seal for water, air & inert gas
- **Viton Seal for oil, gas & diesel fuel**



- 180° temp rating

FIP X FIP BUNA-N

PART #	SIZE	
46560	1/8"	----
46561	1/4"	----
46562	3/8"	----
46563	1/2"	----
46564	3/4"	----

FIP X FIP VITON

PART #	SIZE	
46560V	1/8"	----
46561V	1/4"	----
46562V	3/8"	----
46563V	1/2"	----
46564V	3/4"	----



FEMALE X MALE BUNA-N

PART #	SIZE	
46565	1/8"	----
46566	1/4"	----
46567	3/8"	----
46568	1/2"	----
46569	3/4"	----



MALE X MALE

PART #	SIZE	
46570	1/8"	----
46571	1/4"	----
46572	3/8"	----
46573	1/2"	----



MALE X FEMALE

PART #	SIZE	
46575	1/8"	----
46576	1/4"	----
46577	3/8"	----
46578	1/2"	----

HIGH PRESSURE CHECK VALVES

MAX. 2500 PSI
Cracking Pressure 1 PSI

- Opening diameter .187
- 180⁰ max operating temp.
- •SS ball and spring

CV = 0.4



MNPT X MNPT

PART #	SIZE	OPENING DIA.	
46500	1/4 x 1/4	0.187	----

MAX. 2500 PSI

- Flo direction ->
- Opening diameter .187
- 180⁰ max operating temp.
- Buna Seal
- •SS ball and spring



MNPT X FNPT

PART #	SIZE	OPENING DIA.	
46505	1/4 x 1/4	0.187	----

MAX. 1200 PSI

- O-Ring poppet seal Bubble tight operation
- 180°F max operating temp.



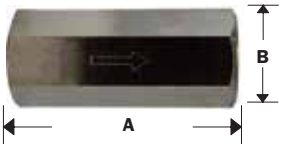
FNPT X FNPT

PART #	SIZE	OPENING DIA.	
46510	1/4 x 1/4	0.25	----
46511	3/8 x 3/8	0.375	----
46512	1/2 x 1/2	0.437	----

PNEUMATIC CHECK VALVES

- Max Operating Pressure: 220 psi
- Working Pressure: 14.5-145 psi
- Cracking Pressure: 2.8 psi
- Maximum Temperatures: 140° F

Body	Chrome plated Brass
Spring	Steel
O-Ring	NBR Rubber



NPT- Inlet NPSM - Outlet

PART #	SIZE	DIMENSIONS (IN.)		
		A	B	
46-200	1/4	1.97	0.67	
46-201	3/8	1.97	0.83	
46-202	1/2	2.48	0.98	

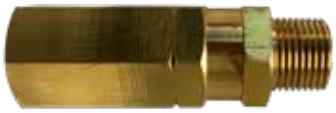
HIGH PRESSURE CHECK VALVES

- Operates in any position, and is available in mixed or matched end combinations.
- Standard cracking pressure 1 p.s.i with a maximum operating pressure of 3000 p.s.i. and a maximum operating temperature of 180°F using Buna-N seals.
- Buna-N seals standard, other seals available.
- Guided 316 stainless steel ball + spring.
- Fixed ringed seat prevents extrusion of seal.
- Opening diameter .28
- Approximate CV 1.2
- Water G.P.M. @ 10 p.s.i. is 4.0
- Good for air



FEMALE X FEMALE

PART #	SIZE	
46513	1/4	----
46517	3/8	----



FEMALE X MALE

PART #	SIZE	
46514	1/4	----
46518	3/8	----



MALE X FEMALE

PART #	SIZE	
46516	1/4	----
46539	3/8	----

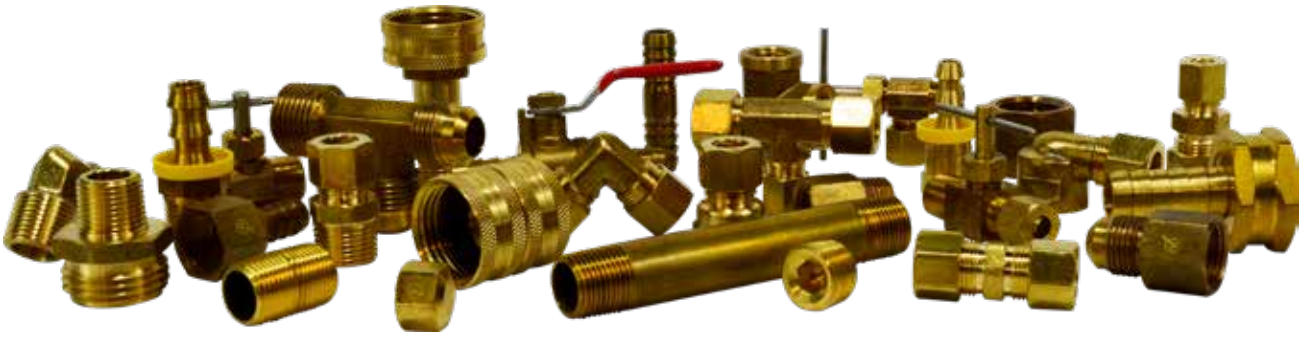


MALE X MALE

PART #	SIZE	
46515	1/4	----
46519	3/8	----

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LEAD FREE



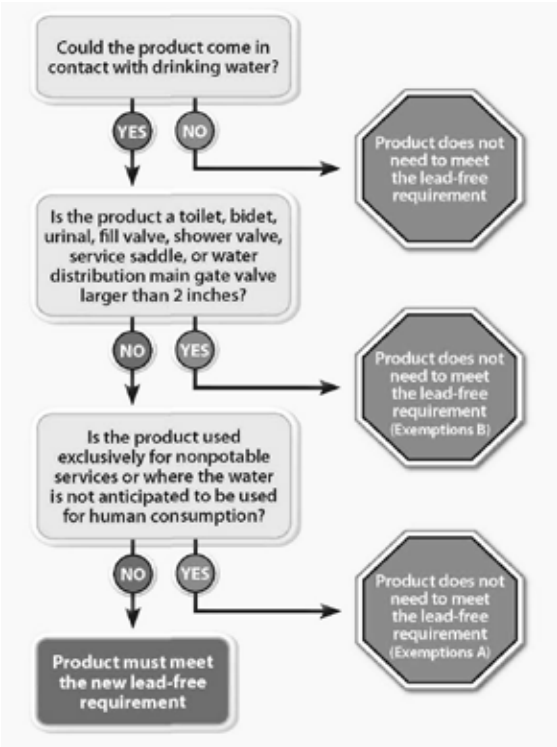
What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417of the Safe Drinking Water Act.

*The term "lead-free" has been updated from notmore that 8% lead content to mean "**not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures.**"*

How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth reffered to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flowchart below as a guide, you can determine if a product must meet the new lead-free requirement:



Lead-Free Requirement Exemptions

(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

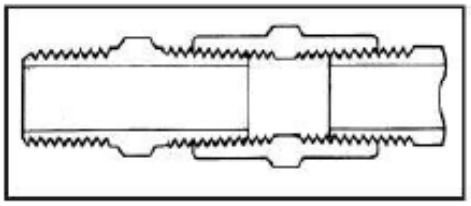
(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS PIPE FITTINGS LEAD FREE

- One piece construction, available in barstock or forgings
- Used with brass or steel pipe
- All pipe threads are "American Standard Taper Pipe Threads"
- Fair vibration resistance
- Used in low to medium pressure applications
- Teflon tape or pipe sealant is recommended
- Pipe threads should be tightened 2 1/2 turns past finger tight



Nominal Pipe Size	1/8	1/4	3/8	1/2	3/4	1
Thread size	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Approx. Diameter in inches	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"

BRASS PIPE FITTINGS

ELBOW 90° BARSTOCK



LF100

PART #	SIZE	
28001LF	1/8"	----
28002LF	1/4"	----
28003LF	3/8"	----
28004LF	1/2"	----
28005LF	3/4"	----

ELBOW 90° FORGED



PART #	SIZE	
28009LF	1/8"	----
28010LF	1/4"	----
28011LF	3/8"	----
28012LF	1/2"	----
28013LF	3/4"	----

REDUCING ELBOW FORGED



PART #	SIZE	
28015LF	3/8" x 1/4"	----

ELBOW 45°



LF10045

PART #	SIZE	
28018LF	1/8"	----
28019LF	1/4"	----

TEE BARSTOCK



LF101

PART #	SIZE	
28024LF	1/8"	----
28025LF	1/4"	----
28026LF	3/8"	----
28027LF	1/2"	----
28028LF	3/4"	----

TEE FORGED



PART #	SIZE	
28032LF	1/8"	----
28033LF	1/4"	----
28034LF	3/8"	----
28035LF	1/2"	----
28036LF	3/4"	----

REDUCING TEE FORGED



PART #	SIZE	
28039LF	3/8"x3/8"x1/4"	----

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

CROSS BARSTOCK



LF102

PART #	SIZE	
28041LF	1/8"	----
28042LF	1/4"	----
28043LF	3/8"	----
28044LF	1/2"	----
28045LF	3/4"	----

COUPLING



LF103

PART #	SIZE	
28058LF	1/8"	----
28059LF	1/4"	----
28060LF	3/8"	----
28061LF	1/2"	----
28062LF	3/4"	----

X-HEAVY COUPLING



PART #	SIZE	
28059EHLF	1/4"	----

UNION



LF104

PART #	SIZE	
28067LF	1/8"	----
28068LF	1/4"	----
28069LF	3/8"	----
28070LF	1/2"	----
28071LF	3/4"	----

CAP



LF108

PART #	SIZE	
28075LF	1/8"	----
28076LF	1/4"	----
28077LF	3/8"	----
28078LF	1/2"	----
28079LF	3/4"	----

PLUG CORED SQUARE HEAD



LF

PART #	SIZE	
28084LF	1/8"	----
28085LF	1/4"	----
28086LF	3/8"	----
28087LF	1/2"	----
28088LF	3/4"	----

PLUG SOLID SQUARE HEAD



LF109SD

PART #	SIZE	
28084SLF	1/8"	----
28085SLF	1/4"	----
28086SLF	3/8"	----
28087SLF	1/2"	----
28088SLF	3/4"	----

COUNTERSUNK PLUG HEX



LF109AL

PART #	SIZE	
28093LF	1/8"	----
28094LF	1/4"	----
28095LF	3/8"	----
28096LF	1/2"	----
28097LF	3/4"	----

PLUG CORED HEX HEAD



LF121

PART #	SIZE	
28201LF	1/8"	----
28202LF	1/4"	----
28203LF	3/8"	----
28204LF	1/2"	----
28205LF	3/4"	----

PLUG SOLID HEX HEAD



PART #	SIZE	
28201SLF	1/8"	----
28202SLF	1/4"	----
28203SLF	3/8"	----
28204SLF	1/2"	----

HEX BUSHING



LF110

PART #	SIZE	
28102LF	1/4" x 1/8"	----
28103LF	3/8" x 1/8"	----
28104LF	3/8" x 1/4"	----
28105LF	1/2" x 1/8"	----
28106LF	1/2" x 1/4"	----
28107LF	1/2" x 3/8"	----
28108LF	3/4" x 1/8"	----
28109LF	3/4" x 1/4"	----
28110LF	3/4" x 3/8"	----
28111LF	3/4" x 1/2"	----
28112LF	1" x 1/4"	----
28113LF	1" x 3/8"	----
28114LF	1" x 1/2"	----
28115LF	1" x 3/4"	----

FACE BUSHING



LF110F

PART #	SIZE	
28121LF	1/4" x 1/8"	----
28116LF	3/8" x 1/4"	----
28117LF	1/2" x 3/8"	----
28118LF	3/4" x 1/2"	----

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

CLOSE NIPPLE



LF112

PART #	SIZE	
28131LF	1/8"	----
28132LF	1/4"	----
28133LF	3/8"	----
28134LF	1/2"	----
28135LF	3/4"	----

LONG NIPPLE



LF113

PART #	SIZE	
28140LF	1/8" x 1-1/2"	----
28141LF	1/8" x 2"	----
28142LF	1/8" x 2-1/2"	----
28143LF	1/8" x 3"	----
28144LF	1/4" x 1-1/2"	----
28145LF	1/4" x 2"	----
28146LF	1/4" x 2-1/2"	----
28147LF	1/4" x 3"	----
28148LF	3/8" x 1-1/2"	----
28149LF	3/8" x 2"	----

HEX NIPPLE



LF23325X
LF122

PART #	SIZE	
28211LF	1/8"	----
28212LF	1/4"	----
28213LF	3/8"	----
28214LF	1/2"	----
28215LF	3/4"	----
28216LF	1"	----

LONG HEX NIPPLE



PART #	SIZE	
28212EHLF	1/4"	----

REDUCING HEX NIPPLE



LF123

PART #	SIZE	
28220LF	1/4" x 1/8"	----
28221LF	3/8" x 1/8"	----
28222LF	3/8" x 1/4"	----
28223LF	1/2" x 1/8"	----
28224LF	1/2" x 3/8"	----
28225LF	3/4" x 1/2"	----

REDUCING COUPLING



LF119

PART #	SIZE	
28181LF	1/4" x 1/8"	----
28182LF	3/8" x 1/8"	----
28183LF	3/8" x 1/4"	----
28180LF	1/2" x 1/8"	----
28184LF	1/2" x 1/4"	----
28185LF	1/2" x 3/8"	----
28189LF	3/4" x 1/2"	----

ADAPTER



LF120

PART #	SIZE	
28190LF	1/8" x 1/8"	----
28191LF	1/4" x 1/8"	----
28192LF	1/4" x 1/4"	----
28198LF	3/8" x 1/8"	----
28193LF	3/8" x 1/4"	----
28194LF	3/8" x 3/8"	----
28199LF	1/2" x 1/4"	----
28195LF	1/2" x 3/8"	----
28196LF	1/2" x 1/2"	----
28208LF	3/4" x 1/2"	----
28209LF	3/4" x 3/4"	----

* Forged and Barstock shapes may be substituted for one another in Lead Free.

SHORT BARSTOCK* STREET ELBOW 90°



PART #	SIZE	
28156SLF	1/8"	----
28157SLF	1/4"	----
28158SLF	3/8"	----
28159SLF	1/2"	----
28160SLF	3/4"	----

BARSTOCK* ST ELBOW



LF116

PART #	SIZE	
28156LF	1/8"	----
28157LF	1/4"	----
28158LF	3/8"	----
28159LF	1/2"	----
28160LF	3/4"	----

STREET ELBOW 90° FORGED*



PART #	SIZE	
28165LF	1/8"	----
28166LF	1/4"	----
28167LF	3/8"	----
28168LF	1/2"	----
28169LF	3/4"	----

REDUCING STREET ELBOW FORGED*



PART #	SIZE	
28261LF	1/4" x 1/8"	----
28262LF	1/4" x 3/8"	----
28264LF	3/8" x 1/2"	----
28265LF	1/2" x 3/8"	----

LEAD FREE PIPE/ LEAD FREE PUSH-ON

LEAD FREE BRASS FITTINGS

STREET ELBOW 45°



LF124

PART #	SIZE	
28230LF	1/8"	----
28231LF	1/4"	----
28232LF	3/8"	----
28233LF	1/2"	----
28234LF	3/4"	----

STREET TEE BARSTOCK



LF127

PART #	SIZE	
28245LF	1/8"	----
28246LF	1/4"	----
28247LF	3/8"	----
28248LF	1/2"	----
28249LF	3/4"	----

STREET TEE FORGED



PART #	SIZE	
28253LF	1/8"	----
28254LF	1/4"	----
28255LF	3/8"	----

ELBOW BARSTOCK



PART #	SIZE	
28266BLF	1/8"	----
28267BLF	1/4"	----

ELBOW FORGED



PART #	SIZE	
28266LF	1/8"	----
28267LF	1/4"	----
28268LF	3/8"	----
28269LF	1/2"	----

REDUCING ELBOW



PART #	SIZE	
28273LF	1/4" x 1/8"	----
28272LF	3/8" x 1/8"	----
28275LF	3/8" x 1/4"	----
28276LF	1/2" x 3/8"	----

TEE BARSTOCK



LF131

PART #	SIZE	
28281LF	1/8"	----
28282LF	1/4"	----
28283LF	3/8"	----
28284LF	1/2"	----

TEE FORGED



PART #	SIZE	
28290LF	1/8"	----
28291LF	1/4"	----
28292LF	3/8"	----

PUSH-ON

MALE ADAPTER



PART #	HOSE I.D. X MALE NPTF	
30200LF	1/4" x 1/8"	----
30201LF	1/4" x 1/4"	----
30203LF	3/8" x 1/4"	----
30204LF	3/8" x 3/8"	----
30206LF	1/2" x 3/8"	----
30207LF	1/2" x 1/2"	----

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



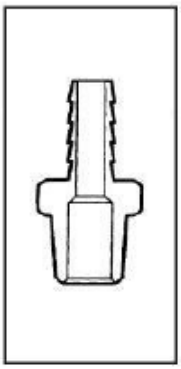
PART #	HOSE I.D. X FEMALE 45°/37°	
30230LF	1/4" x 1/4"	----

LEAD FREE HOSE BARBS
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS HOSE BARBS LEAD FREE

- One piece, except swivels (nut and stem)
- Used with plastic tubing or rubber hose
- -40° to 200° F. temperature range
- Intended for use with hose clamp or crimp type ferrule
- Barbed edges provide positive connection
- Excellent vibration resistance
- Barb size is hose I.D.



RIGID MALE ADAPTER



LF29

PART #	HOSE I.D. X MALE NPTF	
32001LF	1/8" x 1/8"	----
32027LF	1/8" x 1/4"	----
32002LF	3/16" x 1/8"	----
32003LF	3/16" x 1/4"	----
32004LF	1/4" x 1/8"	----
32005LF	1/4" x 1/4"	----
32006LF	1/4" x 3/8"	----
32007LF	1/4" x 1/2"	----
32954LF	1/4" x 3/4"	----
32008LF	5/16" x 1/8"	----
32009LF	5/16" x 1/4"	----
32010LF	5/16" x 3/8"	----
32011LF	3/8" x 1/8"	----
32012LF	3/8" x 1/4"	----
32013LF	3/8" x 3/8"	----
32014LF	3/8" x 1/2"	----
32026LF	3/8" x 3/4"	----
32015LF	1/2" x 1/4"	----
32016LF	1/2" x 3/8"	----
32017LF	1/2" x 1/2"	----
32018LF	1/2" x 3/4"	----
32019LF	5/8" x 3/8"	----
32020LF	5/8" x 1/2"	----
32021LF	5/8" x 3/4"	----
32306LF	3/4" x 3/8"	----
32022LF	3/4" x 1/2"	----
32023LF	3/4" x 3/4"	----
32024LF	1" x 3/4"	----
32025LF	1" x 1"	----

FORGED HOSE BARB 90° ELBOW



LF29EBS

PART #	HOSE I.D. X MALE NPTF	
32038LF	1/4" x 1/8"	----
32039LF	1/4" x 1/4"	----
32309LF	1/4" x 3/8"	----
32036LF	5/16" x 1/8"	----
32040LF	5/16" x 1/4"	----
32046LF	3/8" x 1/8"	----
32041LF	3/8" x 1/4"	----
32042LF	3/8" x 3/8"	----
32047LF	3/8" x 1/2"	----
32048LF	1/2" x 1/4"	----
32043LF	1/2" x 3/8"	----
32311LF	1/2" x 1/2"	----
32313LF	3/4" x 1/2"	----

MENDER/ SPLICER



PART #	HOSE I.D. X HOSE I.D.	
32091LF	1/8"	----
32092LF	3/16"	----
32093LF	1/4"	----
32094LF	5/16"	----
32095LF	3/8"	----
32096LF	1/2"	----
32097LF	5/8"	----
32098LF	3/4"	----

RIGID FEMALE ADAPTER



LF29F

PART #	HOSE I.D. X FE-MALE NPTF	
32050LF	1/8" x 1/8"	----
32317LF	1/8" x 1/4"	----
32051LF	3/16" x 1/8"	----
32062LF	3/16" x 1/4"	----
32052LF	1/4" x 1/8"	----
32053LF	1/4" x 1/4"	----
32054LF	1/4" x 3/8"	----
32441LF	1/4" x 1/2"	----
32055LF	5/16" x 1/8"	----
32056LF	5/16" x 1/4"	----
32318LF	5/16" x 3/8"	----
32057LF	3/8" x 1/8"	----
32058LF	3/8" x 1/4"	----
32059LF	3/8" x 3/8"	----
32063LF	3/8" x 1/2"	----
32064LF	1/2" x 1/4"	----
32060LF	1/2" x 3/8"	----
32061LF	1/2" x 1/2"	----
32065LF	3/4" x 3/4"	----

HOSE BARB TEES



PART #	HOSE BARB SIZE	
32365LF	1/4"	----
32366LF	5/16"	----
32126LF	3/8"	----

FEMALE 45° FLARE SWIVEL



PART #		
32101LF	1/4" x 1/4"	----
32105LF	3/8" x 3/8"	----
32100LF	1/2" x 1/2"	----

LEAD FREE MINI BALL VALVES BARB X BARB

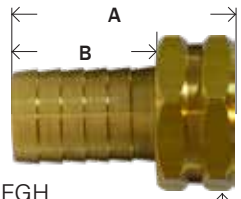


PART #	H.B. X H.B.	
944142LF	1/4"	----
944134LF	3/8"	----

LEAD FREE GARDEN HOSE
LEAD FREE BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

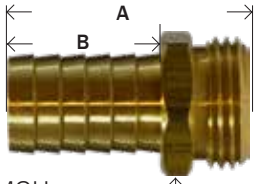


LF29FGH

• WASHER INCLUDED

PART #	HOSE BARB X FGH	
30031LF	3/8″ x 3/4"	----
30032LF	1/2″ x 3/4"	----
30033LF	5/8″ x 3/4"	----

MALE END ONLY



LF29MGH

PART #	HOSE BARB X MGH	
30039LF	3/8″ x 3/4"	----
30040LF	1/2″ x 3/4"	----
30041LF	5/8″ x 3/4"	----
30042LF	3/4″ x 3/4"	----

GARDEN HOSE COUPLING



• WASHER INCLUDED

PART #	HOSE BARB	
30025LF	3/8″	----
30027LF	1/2″	----
30028LF	5/8″	----
30029LF	3/4″	----

SWIVEL - FGH X FGH



LFS3

• WASHER INCLUDED

PART #	FGH X FGH	
30011LF	3/4″ x 3/4"	----
30012LF	no swivel	----

SWIVEL - FGH X FEMALE PIPE



LFS1
LFS2

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30001LF	3/4″ x 1/2″	----
30006LF	3/4″ x 3/4″	----

RIGID - FGH X FEMALE PIPE



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30016LF	3/4" x 1/8"	----
30078LF	3/4" x 1/2"	----
30083LF	3/4″ x 3/4″	----

SWIVEL - FGH X MALE PIPE



• WASHER INCLUDED

PART #	FGH X MALE NPTF	
30047LF	3/4″ x 1/4″	----
30048LF	3/4″ x 3/8″	----
30049LF	3/4″ x 1/2″	----

RIGID - FGH X MALE PIPE



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	
30088LF	3/4″ x 1/2"(1/2"SWT)	----

RIGID - MGH X MGH



LF85GHT

PART #	MGH X MGH	
30098LF	3/4″ x 3/4″ (1/2" FIP)	----

RIGID - MGH X FEMALE PIPE



LF110GH-124

PART #	MGH X FEMALE NPTF	
30066LF	3/4" x 1/4"	----
30067LF	3/4" x 3/8"	----
30068LF	3/4" x 1/2"	----
30073LF	3/4″ x 3/4″	----

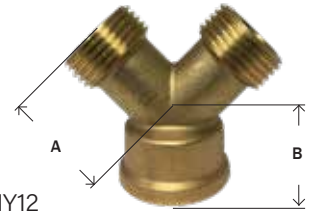
RIGID - MGH X MALE PIPE



LF68GH1216

PART #	MGH X MALE NPTF	
30052LF	3/4" x 1/4"	----
30053LF	3/4″ x 3/8″	----
30058LF	3/4″ x 1/2″	----
30058SLF	3/4" x 1/2" (1/2" SWT)	----
30063LF	3/4″ x 3/4″ x 1/2″	----

CAST BRASS HOSE - "Y" CONNECTOR



LFHY12

PART #	SIZE FGH X MGH(2)	
30140LF	3/4″	----

GARDEN HOSE CAP



LFHC-12W

PART #	SIZE	
30103LF	3/4″ Die Cast	----

GARDEN HOSE NUT



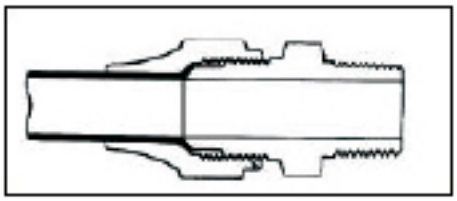
PART #	SIZE	
30021LF	Knurled	----
30022LF	Hex Nut	----

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

LEAD FREE

45° s.a.e. brass flare fittings

- Two pieces construction – nut and body
- Use with copper, brass, aluminum, or steel tubing
- -40° to +250° F. temperature range
- Resists mechanical pullout
- Easy to disassemble and can be reassembled many times, with no effect on the seal
- Primary uses: fuel equipment, plumbing, gases, refrigeration, and vacuum lines
- Meet functional requirements for SAE, ASME and ASA codes for pressure piping



TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut onto tube - threads facing end
3 Flare end of tube
4 Thread nut to body until snug, then

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread Size	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	11/16-14	1-1/4-12	1 3/8-12

SHORT ROD NUT

LF41S
LF41XS



PART #	THREAD SIZE UNF	
10013LF	1/8"	----
10014LF	3/16"	----
10015LF	1/4"	----
10016LF	5/16"	----
10017LF	3/8″	----
10018LF	7/16"	----
10019LF	1/2″	----
10020LF	5/8"	----
10021LF	3/4"	----

SHORT FORGED NUT



PART #	THREAD SIZE UNF	
10039LF	1/4"	----
10041LF	3/8″	----
10052LF	3/8" x 1/4"	----
10042LF	1/2″	----
10054LF	1/2" x 3/8"	----
10043LF	5/8"	----
10056LF	5/8" x 1/2"	----
10044LF	3/4"	----

UNION

LF242



PART #	THREAD SIZE UNF	
10104LF	1/8"	----
10105LF	3/16"	----
10106LF	1/4″	----
10107LF	5/16"	----
10108LF	3/8″	----
10118LF	3/8" x 1/4"	----
10109LF	1/2″	----
10120LF	1/2" x 1/4"	----
10121LF	1/2" x 3/8"	----
10110LF	5/8″	----
10122LF	5/8" x 3/8"	----
10123LF	5/8" x 1/2"	----
10111LF	3/4"	----

CAP

LF40



PART #	THREAD SIZE UNF	
10075LF	1/4″	----
10076LF	5/16"	----
10077LF	3/8″	----
10078LF	1/2″	----
10079LF	5/8″	----
10080LF	3/4"	----

UNION TEE



PART #	SIZE (1 X 2 X 3)	
10157LF	1/8"	----
10158LF	3/16"	----
10159LF	1/4"	----
10160LF	5/16"	----
10161LF	3/8"	----
10162LF	1/2"	----
10163LF	5/8"	----

REDUCING UNION TEE

PART #	SIZE (1 X 2 X 3)	
10174LF	3/8" x 3/8" x 1/4"	----
10175LF	3/8" x 3/8" x 1/2"	----
10181LF	1/2" x 1/2" x 3/8"	----
10182LF	1/2" x 1/2" x 5/8"	----
10189LF	5/8" x 5/8" x 1/2"	----

PLUG

LF39



PART #	THREAD SIZE UNF	
10064LF	1/4"	----
10066LF	3/8"	----
10067LF	1/2"	----
10068LF	5/8"	----

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

FEMALE ADAPTER



LF46

PART #	MALE FLARE X FEMALE NPTF	
10227LF	3/16" x 1/8"	----
10228LF	1/4" x 1/8"	----
10229LF	1/4" x 1/4"	----
10230LF	1/4" x 3/8"	----
10231LF	1/4" x 1/2"	----
10232LF	5/16" x 1/8"	----
10233LF	5/16" x 1/4"	----
10234LF	3/8" x 1/8"	----
10235LF	3/8" x 1/4"	----
10236LF	3/8″ x 3/8″	----
10237LF	3/8″ x 1/2″	----
10238LF	3/8" x 3/4"	----
10239LF	1/2" x 1/4"	----
10240LF	1/2″ x 3/8″	----
10241LF	1/2″ x 1/2″	----
10242LF	1/2″ x 3/4″	----
10243LF	5/8" x 3/8"	----
10244LF	5/8" x 1/2"	----
10245LF	5/8" x 3/4"	----
10247LF	3/4" x 3/4"	----

MALE BRANCH TEE



PART #	SIZE	
10204LF	1/4" x 1/8"	----
10205LF	1/4" x 1/4"	----
10206LF	1/4" x 3/8"	----
10210LF	3/8" x 1/4"	----
10211LF	3/8" x 3/8"	----
10212LF	3/8" x 1/2"	----
10214LF	1/2" x 3/8"	----
10215LF	1/2" x 1/2"	----
10218LF	5/8" x 1/2"	----

FORGED SWIVEL



LF700

PART #	FEMALE FLARE UNF	
10481LF	1/4"	----
10482LF	5/16"	----
10483LF	3/8″	----
10484LF	1/2″	----
10485LF	5/8″	----
10487LF	3/8" x 1/4"	----
10488LF	1/2" x 3/8"	----

MALE ADAPTER



LF48
LF248

PART #	MALE FLARE X MALE NPTF	
10253LF	1/8" x 1/8"	----
10254LF	3/16" x 1/8"	----
10252LF	3/16" x 1/4"	----
10255LF	1/4″ x 1/8″	----
10256LF	1/4″ x 1/4″	----
10256EHLF	1/4″ x 1/4″	----
10257LF	1/4" x 3/8"	----
10258LF	1/4″ x 1/2″	----
10259LF	5/16" x 1/8"	----
10260LF	5/16" x 1/4	----
10261LF	5/16" x 3/8"	----
10251LF	5/16" x 1/2"	----
10262LF	3/8″ x 1/8″	----
10263LF	3/8″ x 1/4″	----
10264LF	3/8″ x 3/8″	----
10265LF	3/8″ x 1/2″	----
10266LF	3/8" x 3/4"	----
10267LF	1/2" x 1/4"	----
10268LF	1/2″ x 3/8″	----
10269LF	1/2″ x 1/2″	----
10270LF	1/2″ x 3/4″	----
10272LF	5/8" x 3/8	----
10273LF	5/8" x 1/2"	----
10274LF	5/8" x 3/4"	----
10275LF	3/4" x 1/2"	----
10276LF	3/4″ x 3/4″	----
10278LF	7/8" x 3/4"	----

UNION ELBOW



BS
LF255B

PART #	FLARE X FLARE	
10406LF	1/4"	----
10407LF	3/8"	----
10409LF	1/2"	----
10419LF	1/2" x 3/8"	----

FLARE X FIP TEE



PART #	FLARE X FLARE X FE PIPE	
10434LF	1/2" x 1/2" x 1/2"	----

90° MALE ELBOW



LF249B
BS

FORGED ELBOW

PART #	FLARE X MALE PIPE	
10284LF	3/16" x 1/8"	----
10286LF	1/4″ x 1/8″	----
10287LF	1/4″ x 1/4″	----
10288LF	1/4″ x 3/8″	----
10289LF	1/4″ x 1/2″	----
10290LF	5/16" x 1/8"	----
10291LF	5/16" x 1/4	----
10293LF	3/8" x 1/8"	----
10294LF	3/8″ x 1/4″	----
10295LF	3/8″ x 3/8″	----
10296LF	3/8″ x 1/2″	----
10297LF	3/8" x 3/4"	----
10298LF	1/2" x 1/4"	----
10299LF	1/2″ x 3/8″	----
10300LF	1/2″ x 1/2″	----
10301LF	1/2″ x 3/4″	----
10302LF	5/8" x 3/8"	----
10303LF	5/8" x 1/2"	----
10304LF	5/8" x 3/4"	----
10305LF	3/4" x 1/2"	----
10306LF	3/4" x 3/4"	----

FEMALE ELBOW

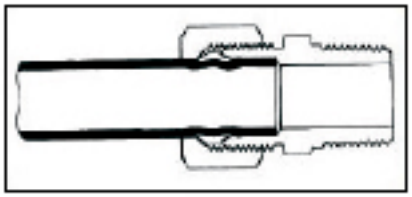


PART #	FLARE X FE-MALE PIPE	
10313LF	1/4″ x 1/8″	----
10314LF	1/4″ x 1/4″	----
10319LF	3/8″ x 1/4″	----
10320LF	3/8″ x 3/8″	----
10321LF	3/8″ x 1/2″	----
10322LF	3/8" x 3/4"	----
10324LF	1/2″ x 3/8″	----
10325LF	1/2″ x 1/2″	----
10326LF	1/2″ x 3/4″	----
10328LF	5/8" x 1/2"	----
10329LF	5/8" x 3/4"	----
10331LF	3/4" x 3/4"	----

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

LEAD FREE

BRASS COMPRESSION FITTINGS - LEAD FREE



- Three piece construction- nut, sleeve (or ferrule) and body
- Use with copper, aluminum, or plastic tubing (plastic requires 60P sleeve and 61P insert)
- -40° to +250° F. temperature range
- Easy to disassemble, no flaring tool required
- Primary uses: water, gasoline, oil, and vacuum lines

TO ASSEMBLE:
1 Cut smooth, square end on tubing
2 Slide nut, then sleeve onto tube. Threads must face end
3 Insert tube into fitting
4 Thread nut onto fitting until snug, then as follows:

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18

BRASS COMPRESSION FITTINGS

BRASS SLEEVE

LF260



• FERRULES

PART #	SIZE	
18001LF	1/8"	----
18002LF	3/16"	----
18003LF	1/4"	----
18004LF	5/16"	----
18005LF	3/8"	----
18006LF	7/16"	----
18007LF	1/2"	----
18008LF	5/8"	----
18009LF	3/4"	----
18010LF	7/8"	----

60 260

DELRIN SLEEVE



PART #	SIZE	
18015	1/4"	----
18016	5/16"	----
18017	3/8"	----
18018	1/2"	----

60-P

BRASS NUT

LF261



PART #	SIZE	
18033LF	1/8"	----
18034LF	3/16"	----
18035LF	1/4"	----
18036LF	5/16"	----
18037LF	3/8"	----
18038LF	7/16"	----
18039LF	1/2"	----
18040LF	5/8"	----
18041LF	3/4"	----
18042LF	7/8"	----

BRASS INSERT



• SLEEVE

PART #	SIZE	
22008LF	1/8"	----
22009LF	3/16"	----
22010LF	1/4"	----
22011LF	5/16"	----
22012LF	3/8"	----
22013LF	1/2"	----

BRASS NUT W/ CAPTIVE SLEEVE

LF611X6



PART #	SIZE	
26001LF	1/8"	----
26002LF	3/16"	----
26003LF	1/4"	----
26004LF	5/16"	----
26005LF	3/8"	----
26007LF	1/2"	----
26008LF	5/8"	----
26015LF	3/4"	----
26016LF	7/8"	----

CAP



PART #	SIZE	
18047LF	1/4"	----
18046LF	5/16	----
18048LF	3/8"	----
18049LF	1/2"	----
18050LF	5/8"	----

61-CC N5CT

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

UNION



LF262

PART #	SIZE	
18062LF	1/8"	----
18063LF	3/16"	----
18064LF	1/4"	----
18065LF	5/16"	----
18066LF	3/8"	----
18067LF	7/16"	----
18068LF	1/2"	----
18069LF	5/8"	----
18070LF	3/4"	----
18071LF	7/8"	----

M-62

REDUCING UNION



LF62R

PART #	SIZE	
18076LF	1/4" x 1/8"	----
18077LF	1/4" x 3/16"	----
18078LF	5/16" x 1/4"	----
18079LF	3/8" x 1/4"	----
18080LF	3/8" x 5/16"	----
18081LF	1/2" x 3/8"	----
18082LF	5/8" x 3/8"	----
18083LF	5/8" x 1/2"	----

62-R

TANK UNION



LF62T

▪ DRILLED THROUGH

PART #	SIZE	
18066DLF	3/8"	----
18068DLF	1/2"	----
18069DLF	5/8"	----
18071DLF	7/8"	----

TEE



LF264B

PART #	SIZE	
18101LF	1/8"	----
18102LF	3/16"	----
18103LF	1/4"	----
18104LF	5/16"	----
18105LF	3/8"	----
18106LF	1/2"	----
18107LF	5/8"	----
18109LF	7/8"	----

REDUCING TEE

1  2

LF264B 3

PART #	SIZE (1 X 2 X 3)	
18114LF	1/4" x 1/4" x 1/8"	----
18110LF	1/4" x 1/4" x 3/8"	----

64-R

ELBOW



LF265

PART #	SIZE	
18122LF	1/8"	----
18123LF	3/16"	----
18124LF	1/4"	----
18125LF	5/16"	----
18126LF	3/8"	----
18127LF	1/2"	----
18128LF	5/8"	----
18129LF	3/4"	----
18130LF	7/8"	----
18135LF	3/8" x 1/4"	----
18136LF	1/2" x 3/8"	----
18137LF	5/8" x 3/8"	----

65 BSE2 165C 265C

FEMALE COUPLING



LF66
LF266

PART #	COMP. X FEMALE NPT	
18142LF	1/8" x 1/8"	----
18143LF	3/16" x 1/8"	----
18144LF	3/16" x 1/4"	----
18145LF	1/4" x 1/8"	----
18146LF	1/4" x 1/4"	----
18147LF	1/4" x 3/8"	----
18148LF	1/4" x 1/2"	----
18149LF	5/16" x 1/8"	----
18150LF	5/16" x 1/4"	----
18151LF	5/16" x 3/8"	----
18152LF	3/8" x 1/8"	----
18153LF	3/8" x 1/4"	----
18154LF	3/8" x 3/8"	----
18155LF	3/8" x 1/2"	----
18156LF	3/8" x 3/4"	----
18157LF	1/2" x 1/4"	----
18158LF	1/2" x 3/8"	----
18159LF	1/2" x 1/2"	----
18160LF	1/2" x 3/4"	----
18161LF	5/8" x 3/8"	----
18162LF	5/8" x 1/2"	----
18163LF	5/8" x 3/4"	----
18164LF	3/4" x 1/2"	----
18165LF	3/4" x 3/4"	----
18167LF	7/8" x 1/2"	----

66

TANK COUPLING



▪ DRILLED THROUGH
COMP X FIP

PART #	SIZE	
18154DLF	3/8" x 3/8"	----
18155DLF	3/8" x 1/2"	----
18158DLF	1/2" x 3/8"	----
18159DLF	1/2" x 1/2"	----
18162DLF	5/8" x 1/2"	----

COMP X SWEAT ADAPTER



PART #	SIZE	
18171LF	3/8" x 1/2" nom.swt.	----

LEAD FREE COMPRESSION
LEAD FREE BRASS FITTINGS

LEAD FREE

MALE ADAPTER



LF68

COMP X MIP

PART #	SIZE	
18176LF	1/8" x 1/8"	----
18177LF	3/16" x 1/8"	----
18178LF	3/16" x 1/4"	----
18179LF	1/4" x 1/8"	----
18180LF	1/4" x 1/4"	----
18181LF	1/4" x 3/8"	----
18182LF	1/4" x 1/2"	----
18183LF	5/16" x 1/8"	----
18184LF	5/16" x 1/4"	----
18185LF	5/16" x 3/8"	----
18186LF	5/16" x 1/2"	----
18187LF	3/8" x 1/8"	----
18188LF	3/8" x 1/4"	----
18189LF	3/8" x 3/8"	----
18190LF	3/8" x 1/2"	----
18191LF	3/8" x 3/4"	----
18192LF	7/16" x 1/4"	----
18204LF	7/16" x 3/8"	----
18193LF	1/2" x 1/4"	----
18194LF	1/2" x 3/8"	----
18195LF	1/2" x 1/2"	----
18196LF	1/2" x 3/4"	----
18197LF	5/8" x 3/8"	----
18198LF	5/8" x 1/2"	----
18199LF	5/8" x 3/4"	----
18200LF	3/4" x 1/2"	----
18201LF	3/4" x 3/4"	----
18202LF	7/8" x 1/2"	----
18203LF	7/8" x 3/4"	----
18205LF	7/8" x 1"	----

THE MAN WHO HAS NO INNER-LIFE IS A SLAVE TO HIS SURROUNDINGS.

- HENRI FREDERIC AMIEL

ELBOW



LF269B
LF69F

COMP X MIP

PART #	SIZE	
18220LF	1/8" x 1/8"	----
18221LF	3/16" x 1/8"	----
18223LF	3/16" x 1/4"	----
18224LF	1/4" x 1/8"	----
18225LF	1/4" x 1/4"	----
18226LF	1/4" X 3/8"	----
18227LF	1/4" x 1/2"	----
18228LF	5/16" x 1/8"	----
18229LF	5/16" x 1/4"	----
18230LF	5/16" x 3/8"	----
18232LF	3/8" x 1/8"	----
18233LF	3/8" x 1/4"	----
18234LF	3/8" x 3/8"	----
18235LF	3/8" x 1/2"	----
18248LF	3/8" x 3/4"	----
18247LF	7/16" x 1/4"	----
18236LF	1/2" x 1/4"	----
18237LF	1/2" x 3/8"	----
18238LF	1/2" x 1/2"	----
18239LF	1/2" x 3/4"	----
18240LF	5/8" x 3/8"	----
18241LF	5/8" x 1/2"	----
18242LF	5/8" x 3/4"	----
18243LF	3/4" x 1/2"	----
18245LF	3/4" x 3/4"	----

TANK CONNECTOR



LF68T

- DRILLED THROUGH

COMP X MIP

PART #	SIZE	
18177TLF	3/16" x 1/8"	----
18208LF	1/4" x 1/8"	----
18209LF	1/4" x 1/4"	----
18210LF	3/8" x 1/4"	----
18211LF	3/8" x 3/8"	----
18212LF	3/8" x 1/2"	----
18213LF	1/2" x 3/8"	----
18214LF	1/2" x 1/2"	----

FEMALE ELBOW



COMP X FIP

PART #	SIZE	
18251LF	1/8" x 1/8"	----
18252LF	3/16" x 1/8"	----
18253LF	1/4" x 1/8"	----
18254LF	1/4" x 1/4"	----
18267LF	1/4" x 3/8"	----
18268LF	1/4" x 1/2"	----
18255LF	5/16" x 1/8"	----
18256LF	5/16" x 1/4"	----
18257LF	3/8" x 1/8"	----
18258LF	3/8" x 1/4"	----
18259LF	3/8" x 3/8"	----
18260LF	3/8" x 1/2"	----
18250LF	3/8" x 3/4"	----
18262LF	1/2" x 3/8"	----
18263LF	1/2" x 1/2"	----
18269LF	5/8" x 3/8"	----
18264LF	5/8" x 1/2"	----

45° ELBOW



COMP X MIP

PART #	SIZE	
18330LF	1/4" x 1/8"	----
18336LF	1/4" x 1/4"	----
18333LF	3/8" x 1/4"	----
18338LF	3/8" x 3/8"	----
18334LF	1/2" x 3/8"	----
18339LF	1/2" x 1/2"	----
18335LF	5/8" x 1/2"	----

MALE RUN TEE



LF272

COMPRESSION X MIP

PART #	SIZE	
18273LF	3/16" x 1/8"	----
18274LF	1/4" x 1/8"	----
18275LF	1/4" x 1/4"	----
18276LF	5/16" x 1/8"	----
18277LF	5/16" x 1/4"	----
18279LF	3/8" x 1/4"	----
18280LF	3/8" x 3/8"	----
18281LF	1/2" x 3/8"	----

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

MALE BRANCH TEE



COMP X MIP

PART #	SIZE	
18289LF	1/8" x 1/8"	----
18290LF	3/16" x 1/8"	----
18291LF	1/4" x 1/8"	----
18292LF	1/4" x 1/4"	----
18293LF	5/16" x 1/8"	----
18294LF	5/16" x 1/4"	----
18295LF	3/8" x 1/8"	----
18296LF	3/8" x 1/4"	----
18297LF	3/8" x 3/8"	----
18299LF	1/2" x 3/8"	----
18300LF	1/2" x 1/2"	----
18301LF	5/8" x 1/2"	----

TEE



COMP X FIP X MIP

PART #	SIZE	
18307LF	1/4" x 1/8 x 1/8"	----

TEE



FIP X MIP X COMP

PART #	SIZE	
18315LF	1/4" x 1/4" x 1/4"	----

FEMALE BRANCH TEE



COMP X FIP

PART #	SIZE	
18325LF	3/8" x 1/8"	----
18322LF	3/8" x 1/4"	----
18323LF	3/8" x 3/8"	----
18327LF	5/8" x 1/8"	----

FEMALE ADAPTER



COMPRESSION X FEMALE FLARE

PART #	SIZE	
18502LF	1/4" x 1/4"	----

MALE ADAPTER



COMPRESSION X MALE FLARE

PART #	SIZE	
18503LF	1/4" x 1/4"	----

FEMALE ADAPTER (GASKET)



FEMALE COMPRESSION X COM-

PART #	SIZE	
18500LF	3/8" x 1/4"	----
18501LF	1/2" x 3/8"	----

FEMALE ADAPTER (GASKET)



FEMALE FLARE X COMPRESSION

PART #	SIZE	
18510LF	9/16-24 x 3/8	----

FEMALE ADAPTER (GASKET)

LF124GH
LF125GH



FE GARDEN HOSE X COMPRES-

PART #	SIZE	
30050LF	3/4" x 1/4"	----
30051LF	3/4" x 3/8"	----

SWIVEL ELBOW



LF69GHS-162

COMP X FE GARDEN HOSE

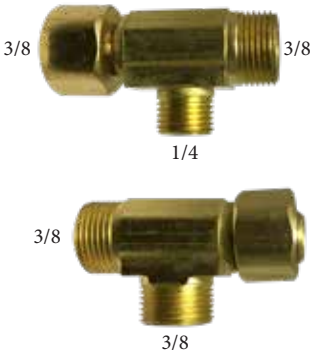
PART #	SIZE	
30055LF	3/8" x 3/4"	----

• NO NUT & SLEEVE

LEAD FREE ADD-A-TEE

COMP X COMP X SWIVEL FE COMPRESSION

- For adding a water line
- Ice makers, Coffee makers and instant hot water systems



• NSF Approved

PART #	MALE & FEM. COMPRESSION X MALE COMP	
935044LF	3/8 x 1/4	----
935045LF	3/8 x 3/8	----

MY MISSION IN LIFE IS NOT MERELY TO SURVIVE, BUT TO THRIVE; AND TO DO SO WITH SOME PASSION, SOME COMPASSION, SOME HUMOR, AND SOME STYLE.

- MAYA ANGELOU

N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS

LEAD FREE

NICKEL PLATED COMPRESSION FITTINGS

NUT



PART #	SIZE	
18054LF	1/4"	----
18055LF	3/8"	----
18056LF	1/2"	----
18057LF	5/8"	----

UNION



PART #	SIZE	
31066LF	3/8"	----
31068LF	1/2"	----

REDUCING UNION



PART #	SIZE	
31079LF	3/8" x 1/4"	----
31081LF	1/2" x 3/8"	----
31082LF	5/8" x 3/8"	----
31083LF	5/8" x 1/2"	----

TEE



PART #	SIZE	
31105LF	3/8"	----
31106LF	1/2"	----

ELBOW



PART #	SIZE	
31126LF	3/8"	
31127LF	1/2"	

REDUCING ELBOW

PART #	SIZE	
31137LF	5/8" x 3/8"	

FEMALE COUPLING



PART #	SIZE	
31154LF	3/8" x 3/8"	----
31155LF	3/8" x 1/2"	----
31158LF	1/2" x 3/8"	----
31159LF	1/2" x 1/2"	----

COMP X SWEAT ADAPTER



PART #	SIZE	
31171LF	3/8" x 5/8" O.D (1/2 Nom. Sweat)	----

CONNECTOR



PART #	SIZE	
31188LF	3/8" x 1/4"	----
31189LF	3/8" x 3/8"	----
31190LF	3/8" x 1/2"	----
31194LF	1/2" x 3/8"	----
31195LF	1/2" x 1/2"	----
31198LF	5/8" x 1/2"	----

ELBOW



PART #	SIZE	
31233LF	3/8" x 1/4"	----
31234LF	3/8" x 3/8"	----
31235LF	3/8" x 1/2"	----
31237LF	1/2" x 3/8"	----
31238LF	1/2" x 1/2"	----

ELBOW



PART #	SIZE	
31260LF	3/8" x 1/2"	----

Ice Maker Kits

ICE MAKER WATER SUPPLY



- Lead free fittings
- Bag with Header Card
- 25' 1/4" O.D. Polyethylene Tubing - 979215
- Self Piercing Saddle Valve
- 1/4" O.D. Compression x 1/8" MIP Elbow & Adapter
- 1/4" O.D. Compression Union
- 1/4" Inserts & Sleeves

PART #	DESCRIPTION	
43265LF	Kit	----
979215	1/4" OD, 25' Tube	----

ICE-MAKER WATER SUPPLY

- Economy
- 25' Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4" Compression Union
- 1/4" Inserts & Sleeves



PART #	
43266LF	----

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

COMP X COMP



PART #	COMP X COMP	
46021LF	1/4″	----
46022LF	5/16"	----
46023LF	3/8″	----

COMP X MALE PIPE



PART #	COMP X MALE PIPE	
46002LF	1/4" x 1/8"	----
46003LF	1/4″ x 1/4″	----
46005LF	3/8″ x 1/4″	----

COMP X MALE PIPE-ANGLE



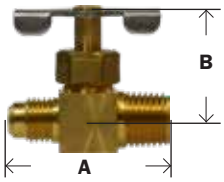
PART #	COMP X MALE PIPE	
46011LF	1/4″ x 1/8″	----
46012LF	1/4″ x 1/4″	----
46013LF	5/16" x 1/8"	----
46015LF	3/8" x 1/8"	----
46016LF	3/8" x 1/4"	----

FLARE X FLARE



PART #	COMP X COMP	
46045LF	1/4"	----
46046LF	3/8"	----

FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	
46029LF	1/4″ x 1/4″	----

FEMALE PIPE X FEMALE PIPE



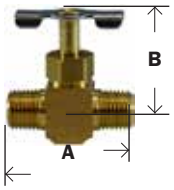
PART #	FEMALE X FEMALE	
46055LF	1/8" x 1/8"	----
46056LF	1/4″ x 1/4″	----

MALE X FEMALE PIPE



PART #	FEMALE X MALE	
46060LF	1/8" x 1/8"	----
46061LF	1/4″ x 1/4″	----

MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	
46051LF	1/4″	----

VALVE WITH TEE



PART #	SIZE	
46175LF	1/4" x 3/8"	----
46177LF	1/4" x 5/8"	----
46174LF	3/8" x 3/8"	----

VALVE WITH SADDLE FITS

up to 3/4" pipe



PART #	SIZE	
46091LF	1/4"	----
46092LF	5/16"	----
46093LF	3/8"	----

BRASS SADDLE



PART #	SIZE	
46099LF	1/8"	----

SELF PIERCING SADDLE VALVES

- 1/4 Tube O.D.



SELF PIERCING NEEDLE VALVE KIT #M-104-VSP

- INDIVIDUALLY BAGGED WITH NEEDLE VALVE
- SADDLE CLAMP
- 2 NUTS
- 2 BOLTS & WASHERS

Has brass sleeve for copper tube installation & delrin

sleeve & brass insert for plastic tube installation.

PART #		
46090ALF	Solid Pin	----
46090HLF	Hollow Pin	----

SUPPLY STOPS/ SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

LEAD FREE

SUPPLY STOPS - 1/4 TURN

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

LEAD FREE

AB1953/S.152 COMPLIANT

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

CONNECTORS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner



ANGLE STOPS

PART #	X 3/8 COMPRESSION	
746436	LF 3/8 Female Iron Pipe	----
746437	LF 1/2 Nominal Pex x 1/4 Comp.	----
746438	LF 1/2 Nominal Pex	----
746446	LF 1/2 Pemale Iron Pipe	----
746456	LF 5/8 Compression	----
746457	LF 5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule	----
746466	LF 1/2 Nominal Sweat	----



STRAIGHT STOPS

PART #	X 3/8 COMPRESSION	
746506	LF 3/8 Compression	----
746536	LF 3/8 Female Iron Pipe	----
746537	LF 1/2 Nominal Pex x 1/4 Comp.	----
746538	LF 1/2 Nominal Pex	----
746546	LF 1/2 Female Iron Pipe	----
746556	LF 5/8 Compression	----
746566	LF 1/2 Nominal Sweat	----
746567	LF 1/2 Socket CPVC	----



3 WAY STOPS

PART #	DESCRIPTION	
746439	LF 5/8 Compression x 3/8 Compression x 1/4 Compression	----
746440	LF 5/8 Compression x 3/8 Compression x 3/8 Compression	----

LAVATORY



3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
922012	12"	----
922016	16"	----
922020	20"	----
922030	30"	----
922036	36"	----



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

922112	12"	----
922116	16"	----
922120	20"	----
922130	30"	----
922136	36"	----



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

922412	12"	----
922416	16"	----
922420	20"	----
922430	30"	----
922436	36"	----

BALLCOCK



3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	----
923212	12"	----
923216	16"	----
923220	20"	----



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

923509	9"	----
923512	16"	----
923520	20"	----

SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LEAD FREE
AB1953/S.152
Compliant

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

ICE MAKER



1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH	
923112	12"	----
923124	24"	----
923136	36"	
923148	48"	
923161	60"	
923196	96"	----

DISHWASHER

3/8 COMPRESSION X 3/8 COMPRESSION

922009	9"	
922012	12"	
922024	24"	
922030	30"	
922036	36"	
922048	48"	----
922060	60"	----
922072	72"	----
922096	96"	----



3/8 COMPRESSION X 3/8 MALE IRON PIPE ELBOW

PART #	L	
923648	48"	----
923660	60"	----
923672	72"	----
923684	84"	----



3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"	----
924260	60"	----
924272	72"	----
924284	84"	----
924297	120"	----

WASHING MACHINE



3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

923936	36"	----
923948	48"	----
923960	60"	----
923972	72"	----

WATER HEATER



3/8 COMPRESSION X 3/4 FEMALE IRON PIPE

PART #	L	
922712	12"	----
922718	18"	----
922724	24"	----



7/8 COMPRESSION X 3/4 FEMALE IRON PIPE

922812	12"	----
922818	18"	----
922824	24"	----

3/4 MALE IRON PIPE X 3/4 FEMALE IRON PIPE

922912	12"	----
922918	18"	----
922924	24"	----



3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"	----
924118	18"	----
924124	24"	----

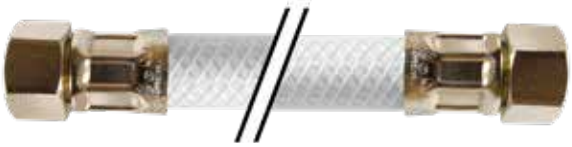
PVC SUPPLY CONNECTORS
LEAD FREE BRASS FITTINGS

- Reinforced Flexible PVC
- Heavy Duty Brass Inserts
- Precision 12 Point Crimp

LEAD FREE
AB1953/S.152
Compliant

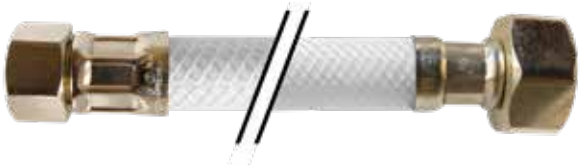
Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

LAVATORY



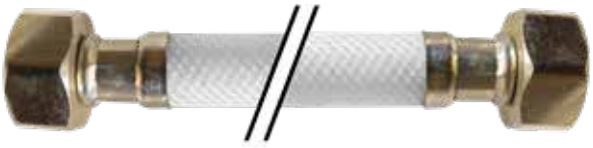
3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
920012	12"	
920016	16"	
920020	20"	
920030	30"	
920036	36"	



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

920112	12"	
920116	16"	
920120	20"	
920130	30"	
920136	36"	



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

920412	12"	
920416	16"	
920420	20"	
920430	30"	
920436	36"	
920448	48"	

BALLCOCK



3/8 COMPRESSION X 7/8 BALLCOCK

921209	9"	
921212	12"	
921216	16"	
921220	20"	



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

921509	9"	
921512	12"	
921516	16"	
921520	20"	

YOUR WORK IS GOING TO FILL A LARGE PART OF YOUR LIFE, AND THE ONLY WAY TO BE TRULY SATISFIED IS TO DO WHAT YOU BELIEVE IS GREAT WORK. AND THE ONLY WAY TO DO GREAT WORK IS TO LOVE WHAT YOU DO. IF YOU HAVEN'T FOUND IT YET, KEEP LOOKING. DON'T SETTLE. AS WITH ALL MATTERS OF THE HEART, YOU'LL KNOW WHEN YOU FIND IT.

- STEVE JOBS

TRANSITION FITTINGS
LEAD FREE BRASS FITTINGS

BRASS CPVC FEMALE ADAPTER



PART#	SIZE	
35403LF	1/2"	
35404LF	3/4"	
35405LF	1"	
35406LF	1-1/4"	
35407LF	1-1/2"	
35408LF	2	

STAINLESS STEEL CPVC MALE ADAPTER



PART#	SIZE	
35413SS	1/2"	
35414SS	3/4"	
35415SS	1"	
35416SS	1-1/4"	
35417SS	1-1/2"	
35418SS	2	

BRASS CPVC MALE ADAPTER



PART#	SIZE	
35413LF	1/2"	
35414LF	3/4"	
35415LF	1"	
35416LF	1-1/4"	
35417LF	1-1/2"	
35418LF	2	

STAINLESS STEEL CPVC FEMALE ADAPTER



PART#	SIZE	
35403SS	1/2"	
35404SS	3/4"	
35405SS	1"	
35406SS	1-1/4"	
35407SS	1-1/2"	
35408SS	2	

LEAD FREE CPVC DROP EAR ELBOW



PART#	SIZE	
35420LF	1/2"	

STAINLESS STEEL CPVC DROP EAR ELBOW



PART#	SIZE	
35420SS	1/2"	

FITTING ASSORTMENTS AND DISPLAYS

MAKE YOUR OWN ASSORTMENTS WITH OUR DIFFERENT SIZE OF BINS



Fittings Assortments and Displays are available for most product categories. These customer-friendly modular bin displays keep products organized for easier product maintenance. Header cards are also available to assist in proper product/sizing selection. Lift product sales and satisfy customers with these best in industry merchandisers.

- Bin labels color coded by category
- Easy to shop bins keep products organized
- Space saving slider racks available

For more information, just ask. Bins can be ordered with our without fittings. The Merchandising Kit is the Bins, Labels and headers provided, not the gondola.

FITTINGS ONLY	SIZE	MERCHANDISING KIT	COMPLETE	
	FLARE/ COMPRESSION			
97551	Expanded Flare LF	97553	97550	----
97561	Expanded Comp LF	97563	97560	----
97511	Lead Free Compression/ Flare-Basic - LF	97513	97510	----
	NIPPLES AND LF CAST FITTINGS			
97436	Stainless Steel Nipples And Fittings	97438	97435	----
97446	Stainless Steel Fittings	97448	97445	----
90636	LF Brass Pipe Nipples - Asst.	90638	90635	----
97646	LF Bronze Fittings - Asst.	97648	97645	
	PIPE AND BARB			
97571	Lead Free Pipe And Hose Barb - LF	97573	97570	----
90691	Nylon Fittings	90693	90690	----
97811	Pneumatic Tools Fittings Assortment	97823	97825	----
	MARINE			
97817	Marine - Pipe & Barb	97863	97865	----
97818	Marine - Brass Nipples & Bronze Fittings	97873	97875	----
97819	Marine - Nylon	97883	97885	----
97820	Marine - The Big 'Un	97893	97895	
	BEVERAGE			
97821	LF Brass & Copper Tubing Beverage Assortment	97903	97905	----
97822	PTC NSF Fittings & Plastic Tubing Beverage Assortment	97913	97915	----
97824	SS Beverage Fittings and Clearbraid Beverage Assortment	97923	97925	----
	TRUCK AND AUTO			
97810	Truck & Auto Assortments	97803	97805	----
97812	DOT - Nylon Air Brake Assortment	97833	97835	----
97814	DOT - Brass Push-To-Connect Assortment	97843	97845	----
97816	DOT - Composite Push-To-Connect Assortment	97853	97855	

GONDOLA

Gondolas may be purchased from your local Lozier distributor.

SLIDER KIT



PART#	SIZE	
90507	4x4 - No Bins just slider frame	----

LABELS

Labels are provided when you order an assortment or you can print out your own labels on our website when you create your own assortment.

Add - **LAB** to part# for the assortment on the previous page to order just the labels.



See part # for your assortment or print out your own.

BINS

Bins are offered in 3 sizes - 4,5 and 6 across. These bins may be attached to a gondola or peg board wall to make a display. They are made of clear, strong plastic.

6 ACROSS



5 ACROSS



4 ACROSS



PART#	SIZE	
9050004	4 BIN	----
9050005	5 BIN	----
9050006	6 BIN	----

PACKAGING

- Tagged
- Bagged

Bagged



Tagged



HEADER CARDS/ SIZE GUIDE



PART#	DESCRIPTION	
90500	HEADER CARD ONLY	----
905001	HEADER CARD FTTGS	----



PART#	DESCRIPTION	
905021	HEADER CARD ONLY	----
905031	HEADER CARD FTTGS	----



PART#	DESCRIPTION	
905022	HEADER CARD ONLY	----
905032	HEADER CARD FTTGS	----



PART#	DESCRIPTION	
905023	HEADER CARD ONLY	----
905033	HEADER CARD FTTGS	----



PART#	DESCRIPTION	
905025	HEADER CARD ONLY	----
905035	HEADER CARD FTTGS	----



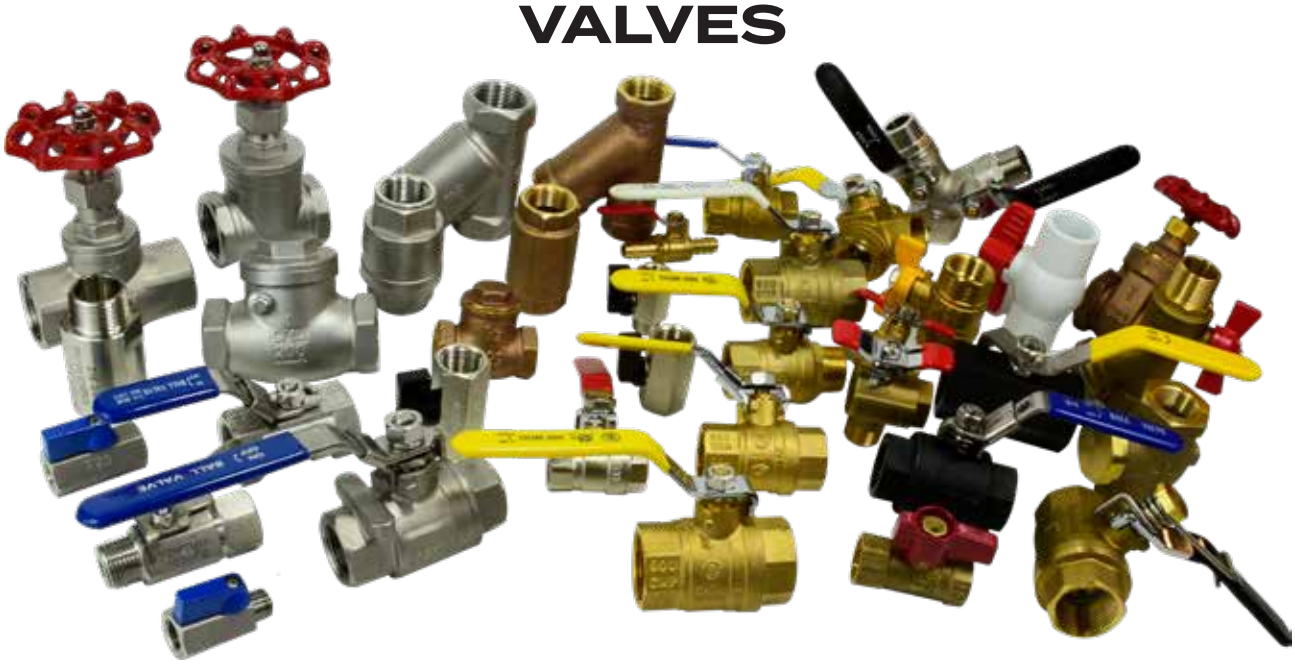
PART#	DESCRIPTION	
905024	HEADER CARD ONLY	----
905034	HEADER CARD FTTGS	----



PART#	DESCRIPTION	
905026	HEADER CARD ONLY	----
905036	HEADER CARD FTTGS	----

HEADER CARD SIZES AND COLORS MAY VARY

VALVES



VALVES 179-225

LEAD FREE BALL VALVES 180-182
LEAD FREE VALVES 183
Press Valve 184
Pex Valves 185
Full Port Ball 186
Locking Handle 187
Butterfly Handle 187
N/P Ball Valve 188
N/P Ball w/SS Trim 189
Italian Ball Valve 190
M X F Ball Valve 191-192
Tee Handle M X F Ball 193
M X F Ball Locking handle 194
Spring Handle Ball Valve 195
Right Angle Ball valve 195
Wye, 3-Way Ball Valve 196
Safety Exhaust Ball Valve 196
Gas Valves 197
Mini Ball Valves 198-201
3-Way Valves 202
Strainer Ball Valve 203
Vacuum Breaker/Hose Bibb 203
Bent Nose Garden Valve 203
Gate Valves 204
Quick Opening Gate 205
Y Strainer 206
Check Valves 207-209

STAINLESS STEEL VALVES 210-219

2000# Full Port 210
Standard Port 211
1,000 PSI Full Port 212
SS Mini Ball Valve 213-214
Check Valves 215-218
Y-strainer, Globe,Gate 219

Carbon Steel valves 220-223

2,000# Standard Port 220
2,000 # FP 2-Piece 221
Hi Pressure 2-Way Valves 222
Hi Pressure 3-Way Balves 222
Check valves-5,000# 223

PVC Valves 224-225

LEAD FREE BALL VALVE

5 PSIG C US

• BRASS • 600PSI • STAINLESS STEEL BALL • FULL PORT

LEAD FREE

IAMPO IGC 157 - 2004b

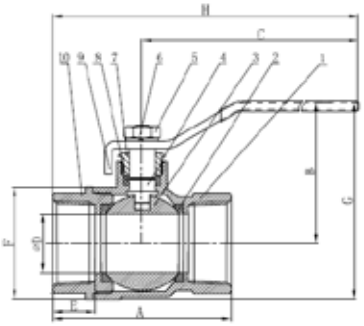
Lead Free Brass Ball Valve NPT,Female*Female
Lead Free and dezincification resistant (DZR) material
IAPMO listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
CSA listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
Vacuum Services 29.92 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body
PTFE Ball Seats
Blow Out Proof Brass Stem
Stainless Steel Ball
Steel Handle w/Vinyl Grip
Made in China



FIP X FIP LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	
941151LF	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	----
941152LF	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	----
941153LF	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	----
941154LF	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	----
941155LF	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.94	8/48	----
941156LF	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.30	4/36	----
941157LF	1-1/2"	1.476	3.44	2.66	5.53	0.701	2.50	3.909	7.343	1.92	2/24	----
941158LF	2"	1.949	4.06	3.01	5.53	0.708	3.244	4.638	7.638	3.12	2/12	----
941159LF	2-1/2"	2.52	5.53	4.25	7.76					7.42	2/12	----
941160LF	3"	2.89	6.14	4.58	8.19					11.01	1/6	----
941161LF	4"	3.84	7.79	5.49	9.25					12.10	1/2	----





No	Item	Qty	Material
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	Stem	1	Brass
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass
8	Packing	1	PTFE
9	Handle	1	Plated Steel
10	Cap	1	Lead Free Brass

SWT X SWT LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	G	H	WEIGHT	WTG	BOX/CASE	
941163LF	1/2"	0.524	1.945	1.73	3.35	0.504	1.083	2.276	4.319	0.38	10/100	----
941164LF	3/4"	0.748	2.654	1.89	3.35	0.748	1.378	2.579	4.665	0.65	10/80	----
941165LF	1"	0.984	3.315	2.14	4.29	0.909	1.772	3.031	5.949	0.93	8/48	----
941166LF	1-1/4"	1.240	3.741	2.32	4.29	0.968	2.165	3.398	6.165	1.35	4/36	----
941167LF	1-1/2"	1.476	4.252	2.66	5.63	1.091	2.50	3.909	7.756	1.88	2/24	----
941168LF	2"	1.949	5.38	3.01	5.63	1.343	3.244	4.638	8.268	3.62	2/12	----

1/2" - 2" Sizes Gas Approved

LEAD FREE BALL VALVE

C US UL842, UL258, UL125,FM

• BRASS • 600PSI • FULL PORT W/APPROVALS

CSA, UL, FM(1/4"-2"), cUPC, NSF/ ANSI 61 & 372

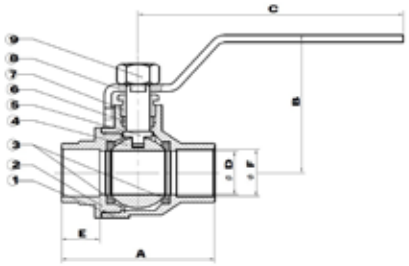
LEAD FREE

FEATURES
- Leadfree Brass Ball valve NPT, Female * Female
- Lead free and dezincification resistant (DZR) material
- 1/4"-1" Lead Free Brass Ball
- Size 1-1/4" thru 4" with Stainless steel ball
- IAMPO listed to cUPC, NSF/ ANSI 61 & 372, IGC 157
- CSA - 1/4" thru 2": ANSI Z21.15/ CSA 9.1 for 1/2 psig valves ASME B16.44, CGA CR91-002 for 2 & 5 psig valves; CAN/ CGA-3.16, ASME B16.33 (1/2"-2") for 125 psig valves
- UL 125, UL 1477, UL 842 - for size 1/4" thru 4", 250 psig
- UL 258 - for size 1/4" thru 2", 175 psig
- FM - for size 1/4" thru 2"
- ISO 9002 Manufacture
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- White vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Low operating torque
- **Adjustable stem packing gland**
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem

POS	Components	Materials
1	Body	Lead Free Brass
2	End Cap	Lead Free Brass
3	Ball Seat	PTFE
4	Ball	1/4-1:Lead Free Brass 1 1/4-4:SS316 Hollowball
5	Stem	Brass
6	Stem Padding	PTFE
7	Padding Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel
10	Seal	PTFE







PART#	SIZE	DIMENSIONS A	B	C	D	E	F	G	H	WEIGHT	BOX/ CASE	
940171LF	1/4"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	----
940172LF	3/8"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	----
940173LF	1/2"	2.047	2.040	3.543	0.583	0.520	1.240	2.559	4.567	0.45	50/100	----
940174LF	3/4"	2.362	2.260	3.780	0.748	0.563	1.492	2.854	4.961	0.69	30/60	----
940175LF	1"	2.756	2.579	4.528	0.945	0.630	1.791	3.476	5.906	1.11	20/40	----
940176LF	1-1/4"	3.307	3.050	4.528	1.260	0.709	2.343	4.134	6.181	1.85	12/24	----
940177LF	1-1/2"	3.661	3.366	5.420	1.575	0.717	2.835	4.783	7.343	2.60	9/18	----
940178LF	2"	4.181	3.701	5.42	1.969	0.748	3.425	5.413	7.602	3.62	6/12	----
940179LF	2-1/2"	4.181	4.650	8.870	2.520	1.024	4.331	6.969	11.350	7.93	3/6	----
940180LF	3"	6.039	4.970	8.870	2.913	1.102	4.921	7.579	11.681	10.40	1/4	----
940181LF	4"	7.386	6.130	10.85	3.898	1.220	6.430	9.055	13.299	20.99	1/2	----

SWT X SWT LEAD FREE BALL VALVE

FM, cUPC, NSF/ ANSI 61 & 372

PART #	SWT	A	B	C	D	E	F	WEIGHT	BOX/CASE	
943612LF	1/2"	2.047	1.839	3.543	0.583	0.512	0.630	0.45	50/100	----
943613LF	3/4"	2.748	2.14	3.780	0.748	0.748	0.878	0.68	30/60	----
943614LF	1"	3.228	2.449	4.528	0.945	0.906	1.130	1.08	20/40	----
943615LF	1-1/4"	3.819	3.04	4.36	1.260	0.972	1.378	1.80	12/24	----
943616LF	1-1/2"	4.425	3.169	5.39	1.575	1.088	1.630	2.51	9/18	----
943617LF	2"	5.377	3.488	6.307	1.989	1.346	2.130	3.57	6/12	----

ITALIAN LEAD FREE BRASS BALL VALVE

5 PSIG
C US
CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

IAMPO IGC 157 - 2004b

ISO 9002 Manufacturer

FEATURES

600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Blue vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Adjustable stem packing gland
- Maximum operating temerature: 248^{0}F (120^0 C) at 600 PSI
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

MADE IN ITALY



FIP X FIP

ANSI/INSF 61-8
- Generic Handles



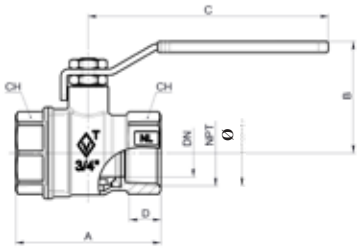
SWT X SWT

FIP X FIP LEAD FREE FORGED BRASS BALL VALVE

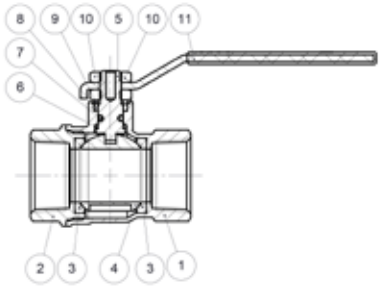
PART #	NPT	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	
943233LF	1/2"	0.57	2.09	1.57	3.35	0.46	0.98	0.39	20/80	----
943234LF	3/4"	0.75	2.28	1.77	3.80	0.49	1.22	0.56	14/56	----
943235LF	1"	0.94	3.04	2.03	3.80	0.59	1.50	0.89	6/24	----
943236LF	1-1/4"	1.24	3.23	2.32	4.72	0.62	1.85	1.44	4/16	----
943237LF	1-1/2"	1.49	3.70	2.60	4.72	0.64	2.13	2.19	2/8	----

SWT X SWT LEAD FREE FORGED BRASS BALL VALVE

PART #	SWT	Ø	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	
940212LF	1/2"	0.63	0.57	2.40	1.57	3.35	0.42	0.79	0.35	20/80	----
940213LF	3/4"	0.866	0.75	3.26	1.77	3.80	0.61	1.06	0.55	10/40	----
940214LF	1"	1.102	0.94	3.68	2.03	3.80	0.73	1.34	0.87	6/24	----
940215LF	1-1/4"	1.377	1.24	4.23	2.32	4.72	0.91	1.61	1.41	6/24	----
940216LF	1-1/2"	1.61	1.49	4.96	2.60	4.72	1.06	1.89	2.08	2/8	----
940217LF	2"	2.125	1.96	5.86	3.27	6.38	1.26	2.40	3.62	1/4	----



POS	Components	Materials
1	Body	CW510L
2	End Connection	CW510L
3	Ball Seal	PTFE
4	Seal	CW510L
5	Stem	CW614N
6	Lower Stem	PTFE
7	O-Ring	NBR70sh
8	Upper Seal	PTFE
9	Brass Ring	CW614N
10	Nut	Steel
11	Handle	Steel P10



LEAD FREE GATE/ CHECK/ Y VALVES

VALVES

BRASS GATE VALVE IPS

▪200 WOG (Cold water, oil, gas)
▪125 WSP (Saturated Steam)

▪ Brass Forged body/bonList- stronger than sand castings.
▪ Superior quality and finish.
▪ Each valve individually tested.
▪ Threaded ends to ANSI B1.20.1, Solder ends to ANSI B16.18
▪ Non rising stem.
▪ Cast iron handle.
▪ NSF Approved



BRASS GATE VALVE IPS

PART#	SIZE	
940130LF	1/4	----
940131LF	3/8	----
940132LF	1/2	----
940133LF	3/4	----
940134LF	1	----
940135LF	1-1/4	----
940136LF	1-1/2	----
940137LF	2	----

BRASS GATE VALVE C X C



PART#	SIZE	
940142LF	1/2"	----
940143LF	3/4"	----
940144LF	1"	----
940145LF	1-1/4"	----
940146LF	1-1/2"	----
940147LF	2"	----

BRASS CHECK VALVE

▪ NSF Approved
▪ ANSI 61-4

NO	Part	Material
1	Cap	C37700
2	Gasket	NBR
3	Spring	Stainless Steel
4	Positioning Seat	BRASS
5	Screw	BRASS
6	Body	C37700



LEAD-FREE

PART #	SIZE	
944430LF	1/2	----
944431LF	3/4	----
944432LF	1	----
944433LF	1-1/4	----
944434LF	1-1/2	----
944435LF	2	----

CAST BRASS SWING CHECK VALVE IPS SCREWED ENDS

▪ Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
▪ Swing type disc.
▪ Screwed Cap.
▪ Hard Seat.
▪ 90⁰ Straight Pattern.
▪ Used to prevent reverse flow in commercial and industrial applications.
▪ Threaded ends to ANSI B1.20.1. Solder ends ANSI 61-8
▪ Integral seat.
▪ NSF Approved

LEAD FREE



PART #	SIZE	
940352LF	1/2"	----
940353LF	3/4"	----
940354LF	1"	----
940355LF	1-1/4"	----
940356LF	1-1/2"	----
940357LF	2"	----

C X C SWING CHECK VALVE



PART #	SIZE	
940362LF	1/2	----
940363LF	3/4	----
940364LF	1	----
940365LF	1-1/4	----
940366LF	1-1/2	----
940367LF	2	----

CLASS 150 BRASS Y-PATTERN STRAINER



LEAD-FREE

PART#	SIZE	
940523LF	1/2"	----

PRESS BALL VALVE
VALVES

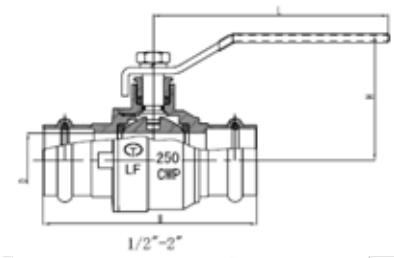
LEAD FREE COPPER PRESS BALL VALVE

Our Series "940 LF" 2-Piece, Full Port, Lead Free, Copper, Press Ball Valves are designed for use in flameless, copper press piping systems. Our Copper Press Ball Valves feature a lead free brass body, adjustable packing gland and blowout proof stem with stem a single O-ring seal. Our press ball valves come with integral ASTM-B88 compliant press end connections that can be used with type K, L, M, hard copper tubing 1/2 in. – 4 in. Utilizing industry standard tools.

Press Ball Valve Features

- Lead Free construction.
- Available Sizes: 1/2 in. – 4 in.
- Integral press end connections designed for hard and soft copper tubing
- ISO-9001
- 250 WOG - 250 CWP (2-1/2" - 4")
- Full Port Stainless Steel ball
- One O-Ring design
- Blow Out Proof Stem
- UPC & NSF-61 Compliant
- AB1953 & NSF-372 Compliant▪

Our Copper Press Ball Valves are a heat-free method for joining copper tubes. Our press valve allows installers the confidence to know the joint is secure due to our leak-detection o-ring. During low pressure testing, if the joint is not pressed properly, the specialized o-ring will leak. This allows the installer to correct the press before the system is operational at higher pressures.





Part Name	Material
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (1/2"-2")
	Stainless Steel(2-1/2"-4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	NBR
Press O-Ring	EPDM

PART	SIZE	D	L	H	W	CV	
940403LF	1/2"	0.591	3.46	1.81	3.15	18.55	----
940404LF	3/4"	0.748	4.29	2.09	3.60	29.76	----
940405LF	1"	0.984	4.29	2.25	3.92	51.55	----
940406LF	1-1/4"	1.259	5.63	2.52	4.41	84.42	----
940407LF	1 1/2"	1.574	5.63	2.74	5.35	131.93	----
940408LF	2 "	1.941	5.63	3.03	6.79	200.35	----
940409LF	2 1/2"	2.520	7.76	4.25	7.46	338.43	----
940410LF	3 "	2.874	8.19	4.58	8.17	445.44	----
940411LF	4"	3.839	9.25	5.49	9.88	783.88	----

C/E PEX & PEX BALL VALVES LEAD FREE

CUPC, AB 1953, NSF/ANSI 61, NSF/ ANSI 372 (ANNEX G) NSF-14

• 400 WOG • FORGED LEAD FREE BRASS BODY • SS BALL

UNION PEX VALVE

C/E PEX X C/E PEX



- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945611LF	1/2"	----
945612LF	3/4"	----
945613LF	1"	----
945614LF	1-1/4"	----
945615LF	1 1/2"	----
945616LF	2 "	----

PEX DRAIN VALVE

C/E PEX X C/E PEX

WITH WASTE DRAIN AND DROP EAR



- Cold Expansion
- Conforms to ASTMF 1960

PART	SIZE	
945621LF	1/2"	----
945622LF	3/4"	----
945623LF	1"	----

MALE ADAPTER PEX VALVE

MALE PIPE X C/E PEX



- Cold Expansion
- Conforms to ASTMF 1960
- Thread conforms to ANSI B1.20.1

PART	SIZE	
945631LF	1/2"	----
945632LF	3/4"	----
945633LF	1"	----

- Dezincification resistant (D2B) Lead Free Brass material
- Cold expansion pex ends conform to ASTM F1960
- Blow out proof stem design

PEX X PEX

PEX ENDS CONFORM TO ASTMF-1807



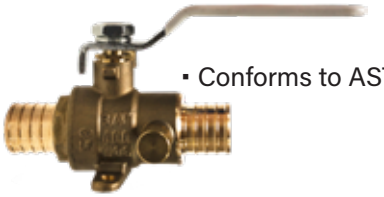
- CSA

PART	SIZE	
945601LF	1/2"	----
945602LF	3/4"	----
945603LF	1"	----
945604LF	1-1/4"	----
945605LF	1-1/2"	----
945606LF	2"	----

W/TEE HANDLE

PART	SIZE	
945640LF	3/4"	----

PEX DRAIN VALVE



- Conforms to ASTMF 1807

PART	SIZE	
945650LF	1/2"	----
945651LF	3/4"	----
945652LF	1"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS BALL VALVE

• BRASS • 600WOG • FULL PORT

UL842, UL258, UL125,FM

ISO 9002 Manufacturer
FEATURES

Made in China

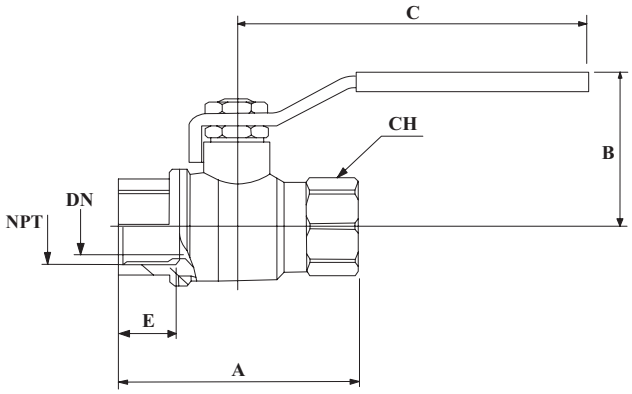
1/4-2" 600 PSI non-shock cold water, gas, oil - 150 PSI saturated steam
2-1/2"- 4" 400 PSI non-shock cold water, gas, oil

- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- Yellow vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Not Lead Free
- Good for gasoline
- Low operating torque
- Adjustable stem packing gland
- Maximum operating temperature: 302^{0}F (150^0 C)
- Minimum operating temperature: -22^{0}F (-30^{0}C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections





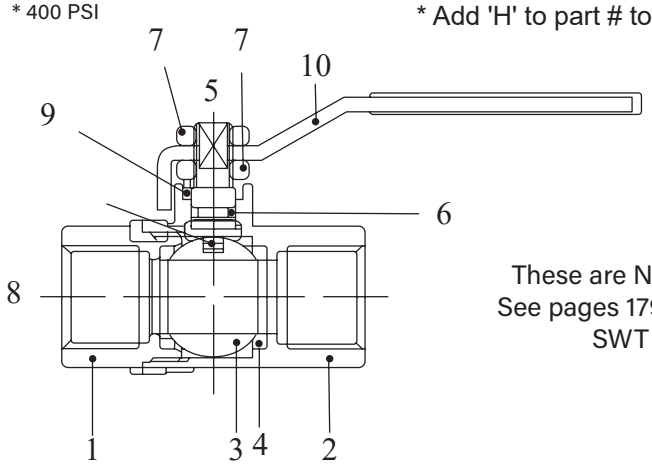
• Generic Handles



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	E	CH			
940171	1/4"	0.39	1.75	1.92	3.54	0.46	0.78	0.34	70/140	----
940172	3/8"	0.41	1.75	1.92	3.54	0.46	0.78	0.30	70/140	----
940173	1/2"	0.58	2.05	2.08	3.54	0.52	0.98	0.44	50/100	----
940174	3/4"	0.75	2.36	2.30	3.78	0.56	1.20	0.67	30/60	----
940175	1"	0.94	2.75	2.68	4.52	0.66	1.50	1.05	20/40	----
940176	1-1/4"	1.26	3.30	3.14	4.52	0.70	1.82	1.50	12/24	----
940177	1-1/2"	1.57	3.66	3.61	5.51	0.72	2.09	2.30	9/18	----
940178	2"	1.97	4.18	3.68	5.51	0.74	2.62	3.38	6/12	----
940179*	2-1/2"	2.52	5.38	4.76	8.66	1.01	3.36	7.61	3/6	----
940180*	3"	2.95	6.04	5.08	8.66	1.11	3.86	11.10	2/4	----
940181*	4"	3.89	7.38	5.86	9.00	1.22	4.89	12.12	1/2	----

* 400 PSI

* Add 'H' to part # to order handles *



These are NOT Lead Free
See pages 179 for Lead Free SWT Valves

POS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Seat	P.T.F.E.	2
5	Stem	Brass	1
6	Gland	Brass	1
7	Nut	Steel	1
8	Spring Inseat	Steel	1
9	Stem Seal	P.T.F.E.	1
10	Handle	Steel	1

▪ Not Lead Free AB1953 Compliant

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT



See specs on previous page

• Generic Handles

PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	E	CH			
940171L	1/4"	0.31	1.73	1.84	3.15	0.49	0.71	0.39	70/140	----
940172L	3/8"	0.39	1.81	1.88	3.86	0.49	0.79	0.35	70/140	----
940173L	1/2"	0.58	2.23	2.09	3.43	0.61	0.98	0.49	50/100	----
940174L	3/4"	0.75	2.48	2.24	3.62	0.62	1.20	0.78	30/60	----
940175L	1"	0.94	2.95	2.67	4.42	0.73	1.50	1.18	20/40	----
940176L	1-1/4"	1.26	3.42	3.05	4.73	0.77	1.81	1.76	12/24	----
940177L	1-1/2"	1.57	3.78	3.51	5.18	0.78	2.09	2.53	9/18	----
940178L	2"	1.97	4.18	3.84	5.24	0.75	2.60	3.53	6/12	----

BUTTERFLY HANDLE BALL VALVE

▪ BRASS ▪ 600WOG ▪ FULL PORT



See specs on previous page

PART#	SIZE						WEIGHT	BOX/CASE	
	NPT	A	B	C	D	E			
940171T	1/4"	1.75	1.488	1.831	0.315	0.457	0.342	70/140	----
940172T	3/8"	1.756	1.488	1.831	0.394	0.457	0.31	70/140	----
940173T	1/2"	2.047	1.756	2.394	0.583	0.520	0.44	50/100	----
940174T	3/4"	2.362	1.921	2.394	0.748	0.563	0.68	30/60	----

▪ Not Lead Free AB1953 Compliant

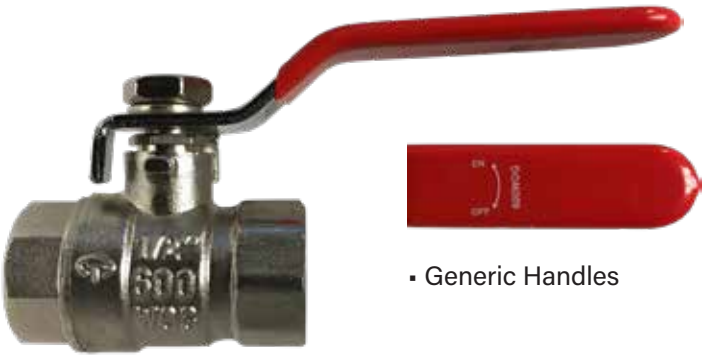
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED BALL VALVE

• BRASS • 600WOG • FULL PORT • NO APPROVALS

Vacuum service to 29 inches Hg
600 psi (WOG) 150 psi (WSP) Service
Thread conform ANSI B1.20.1
Temperature Range : -40° F to 365° F
Construction:Forging Brass Body, Nickel plated
PTFE Ball Seats
Blow Out Proof Brass Stem
Steel Handle w/Vinyl Grip
Made in China

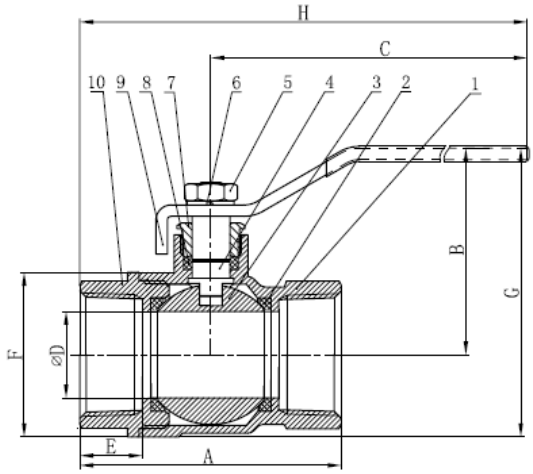
▪ Not Lead Free



▪ Generic Handles

FIP X FIP NICKEL PLATED BALL VALVE

PART #	SIZE	OD	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	
941151NP	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	----
941152NP	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	----
941153NP	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	----
941154NP	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	----
941155NP	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.65	8/48	----
941156NP	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.75	4/36	----
941157NP	1-1/2"	1.476	3.44	2.66	5.63	0.701	2.50	3.909	7.343	2.10	2/24	----
941158NP	2"	1.949	4.06	3.01	5.63	0.708	3.244	4.638	7.638	3.35	2/12	----



No	Item	Qty	Material
1	Body	1	NP Brass
2	Seat	2	PTFE
3	Ball	1	Brass CP
4	Stem	1	Brass/ NP
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass/ NP
8	Packing	1	PTFE

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

Gas Approved

UL842, UL258, UL125,FM

CSA AGA 3.88 5 PSIG

N/P BALL VALVE W/SS TRIM

• NICKEL PLATED • SS BALL, HANDLE, NUT & STEM

• LOCKING HANDLE • W/APPROVALS

Features

- **Vacuum service to 29 inches Hg**
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball, Handle, Nut&Stem
- Handle With Vinyl Grip

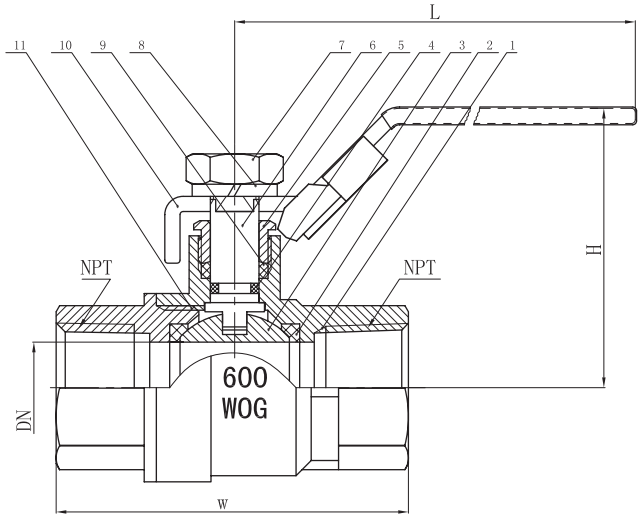
Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free
- No more rusty handles



• Generic Handles

PART#	SIZE	D	L	H	W	CV	WT.(LBS.)	BOX/CASE	
941121NP	1/4	0.394	3.22	1.84	1.73	8.23	0.326	10/120	----
941122NP	3/8	0.394	3.22	1.84	1.73	8.23	0.320	10/120	----
941123NP	1/2	0.591	3.22	2.02	2.24	18.55	0.474	10/100	----
941124NP	3/4	0.748	4.04	2.40	2.52	29.76	0.785	10/80	----
941125NP	1	0.984	4.08	2.20	2.97	51.55	1.155	8/48	----
941126NP	1-1/4	1.259	5.20	3.05	3.44	84.42	1.797	4/36	----
941127NP	1 1/2	1.574	5.20	3.18	3.88	131.93	2.447	2/24	----
941128NP	2	1.941	5.20	3.48	4.33	200.35	3.477	2/12	----



Part Name	Material
Body	Brass/ Nickel Plated
Seat	PTFE
Ball	Stainless Steel
O-ring	Viton
Packing Nut	Brass/ Nickel Plated
Stem	Stainless Steel
Handle Nut	Stainless Steel
Lock Washer	Stainless Steel
Packing	PTFE
Handle	Stainless Steel
Cap	Brass/ Nickel Plated

BRONZE BALL VALVES AVAILABLE WITH UL-MARINE LISTING AND SS TRIM

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN BALL VALVE

• BRASS • 600WOG • FULL PORT

5 PSIG C US

UL FM

UL842, UL258, UL125,FM

ISO 9002 Manufacturer

CSA AGA 3.88 5 PSIG

IAMPO IGC 157 - 2004b

FEATURES

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Generic Handles

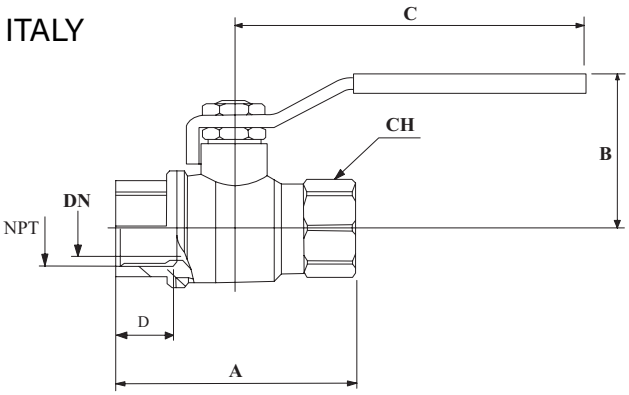
- **Adjustable stem packing gland**
- Maximum operating temerature: 248°F (120° C) at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

• REVERSIBLE HANDLES

MADE IN ITALY



Female x Female



PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	
	NPT	DN	A	B	C	D	CH			
943200	1/4"	.39	1.96	1.53	3.31	.43	.75	0.36	24/96	----
943201	3/8"	.39	1.96	1.53	3.31	.43	.86	0.40	24/96	----
943202	1/2"	.57	2.09	1.57	3.25	.46	.98	0.44	20/80	----
943203	3/4"	.75	2.28	1.77	3.80	.49	1.22	0.57	14/56	----
943204	1"	.94	2.80	2.03	3.80	.59	1.50	0.89	6/24	----
943205	1-1/4"	1.24	3.50	2.32	4.72	0.72	1.85	1.64	4/16	----
943206	1-1/2"	1.49	3.90	3.02	6.38	0.85	2.13	2.78	2/8	----
943207	2"	1.96	4.07	3.27	6.38	.65	2.64	3.21	2/8	----
942208	2-1/2"	2.48	5.80	4.98	7.54	1.06	3.31	6.97	5	----
942209	3"	2.99	6.85	5.63	8.86	1.14	3.89	10.34	3	----
942210	4"	3.54	7.67	6.04	8.86	1.22	4.80	18.77	1	----

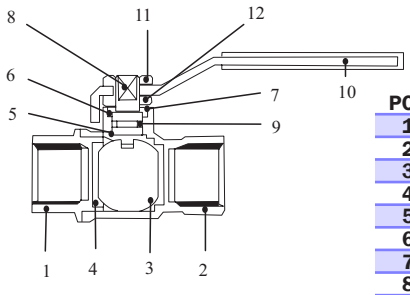
HANDLE OPTIONS

TEE HANDLES

PART #	VALVE SIZE	
43200T	1/4" - 3/4"	----

LOCKING HANDLES

PART #	VALVE SIZE	
43200L	1/4" - 3/4"	----
43204L	1"	----
43206L	1-1/4" - 1-1/2"	----
43-207L	2"	----



POS	Components	Materials	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	Brass	1
8	Stem	Brass	1
9	O-Ring	NBR 80	1
10	Handle	Steel	1
11	Nut	Steel	1
12	Nut	Brass	1

- **Not Lead Free AB1953 Compliant**

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE X FEMALE BRASS BALL VALVE

• 600WOG • FULL PORT

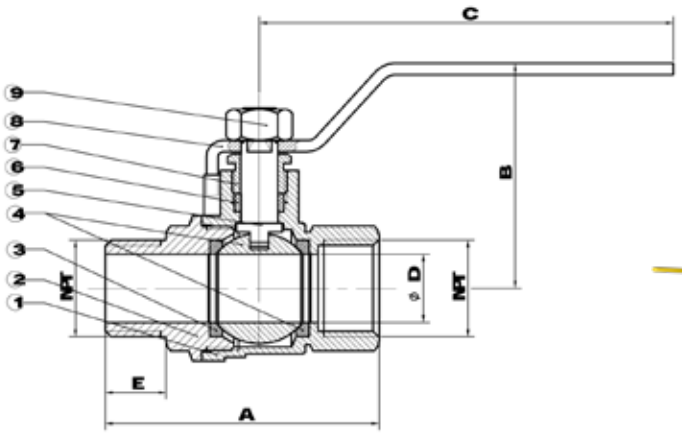
UL842, UL258

- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Generic Handles
- Maximum operating temperature: 248^{0}F (120^{0}C)
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball



- Not Lead Free

PART#	SIZE	NPT	A	B	C	D	E	WEIGHT	BOX/CASE	
948170	1/4"	1/4 - 18	2.016	1.689	2.756	0.315	0.457	0.29	70/140	----
948171	3/8"	3/8 - 18	2.094	1.89	3.543	0.394	0.457	0.33	70/140	----
948172	1/2"	1/2 - 14	2.343	2.05	3.543	0.583	0.520	0.47	50/100	----
948173	3/4"	3/4 - 14	2.618	2.20	3.780	0.748	0.563	0.68	30/60	----
948174	1"	1 - 11.5	3.000	2.579	4.528	0.945	0.630	1.11	20/40	----
948175	1-1/4"	1-1/4 - 11.5	3.563	2.953	4.528	1.260	0.709	1.70	12/24	----
948176	1-1/2"	1-1/2 - 11.5	3.965	3.346	5.512	1.575	0.717	2.50	9/18	----
948177	2"	2 - 11.5	4.496	3.681	5.512	1.969	0.748	3.57	6/12	----



POS	Components	Materials
1	Body	C37700
2	End Cap	CS7700
3	Ball Seat	PTFE
4	Ball	CS7700
5	Stem	CS7700
6	Stem Reducing	PTFE
7	Reducing Nut	CS7700
8	Lever Handle	1008



Locking Handle option
see pg. 182



Tee handle option
see pg. 181

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN MALE X FEMALE BALL VALVE

• BRASS • 600WOG • FULL PORT

Gas Approved

5 PSIG
C US
CSA AGA 3.88 5 PSIG

UL842, UL258, UL125,FM

Made in Italy

ISO 9002 Manufacturer

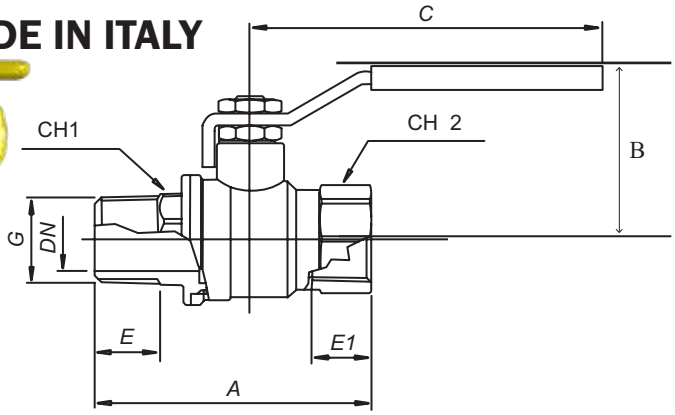
FEATURES

- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Generic Handles
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Maximum operating temperature: 248^{0}F (120^{0}C) at 600 p.s.i
- Minimum operating temperature: -20^{0}F (-40^{0}C)
- KV: Pressure drop m^3/h.
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Deeper threads - for better connections.

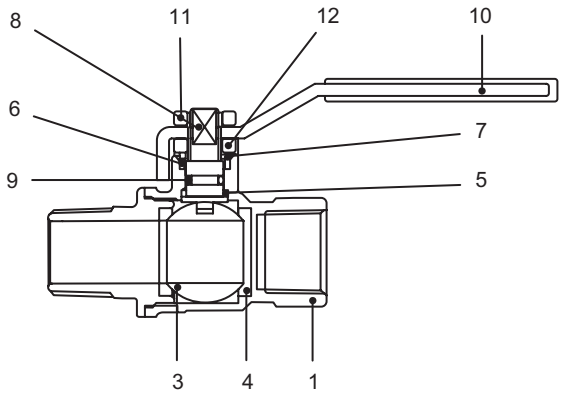
MADE IN ITALY



MIP x FIP



PART#	SIZE	DN	A	B	C	E	E1	CH1	CH2	WEIGHT	BOX/CASE	
948101	1/4"	.39	2.18	1.53	3.28	.39	.43	.55	.75	0.35	24/96	----
948102	3/8"	.39	2.20	1.53	3.28	.43	.43	.71	.86	0.35	24/96	----
948103	1/2"	.57	2.54	1.57	3.28	.62	.46	.87	.98	0.42	14/56	----
948104	3/4"	.75	2.75	1.77	3.80	.55	.49	1.12	1.22	0.68	12/48	----
948105	1"	.94	3.23	2.03	3.80	.69	.59	1.34	1.50	0.95	6 /24	----
948106	1-1/4"	1.24	3.86	2.32	4.63	.81	.79	1.69	1.90	1.66	4/16	----
948107	1-1/2"	1.49	4.20	2.98	6.28	.85	.64	2.15	2.13	2.83	2/8	----
948108	2"	1.96	4.90	3.27	6.38	.90	.75	2.40	2.64	4.22	1/4	----



POS	Components	Materials	N
1	Body	CW617N Forged Brass	1
2	End Connection	CW617N Forged Brass	1
3	Ball	CW617N CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	CW617N Brass	1
8	Stem	CW617N Brass	1
9	O-Ring	NBR 80	1
10	Handle	UNI EN 10025 Steel	1
11	Nut	UN 5771 Steel	1
12	Nut	CW617N Brass	1

- Not Lead Free

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TEE HANDLE BALL VALVE – MALE X FEMALE

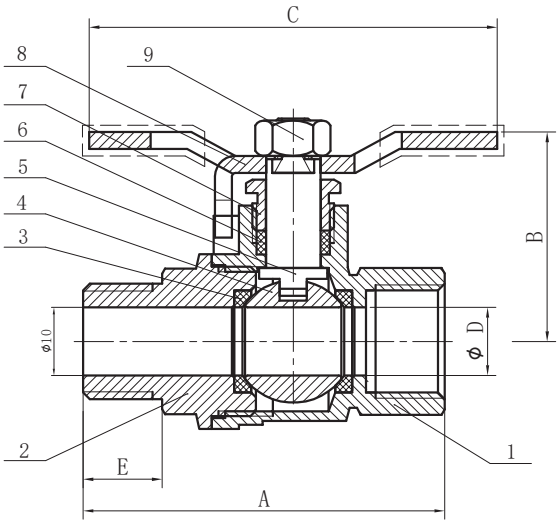
UL842, UL258



Features
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass Ball
- Handle with vinyl grip

Performance rating
- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free

PART#	SIZE	DIMENSION INCHES							
	NPT	A	B	C	D	E	Weight	Box/Case	
948170T	1/4"	2.016	1.27	2.67	0.315	0.457	0.26	70/140	----
948171T	3/8"	2.094	1.213	2.67	0.394	0.457	0.33	70/140	----
948172T	1/2"	2.343	1.61	3.12	0.583	0.520	0.49	50/100	----
948173T	3/4"	2.618	1.26	3.12	0.748	0.563	0.66	30/60	----
948174T	1"	3.000	1.921	3.701	0.945	0.630	1.06	20/40	----
948176T	1-1/2"	3.965	2.717	4.331	1.575	0.717	2.46	9/18	----



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	T-Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOCKING HANDLE BALL VALVES - FEMALE X MALE

UL842, UL258

Features

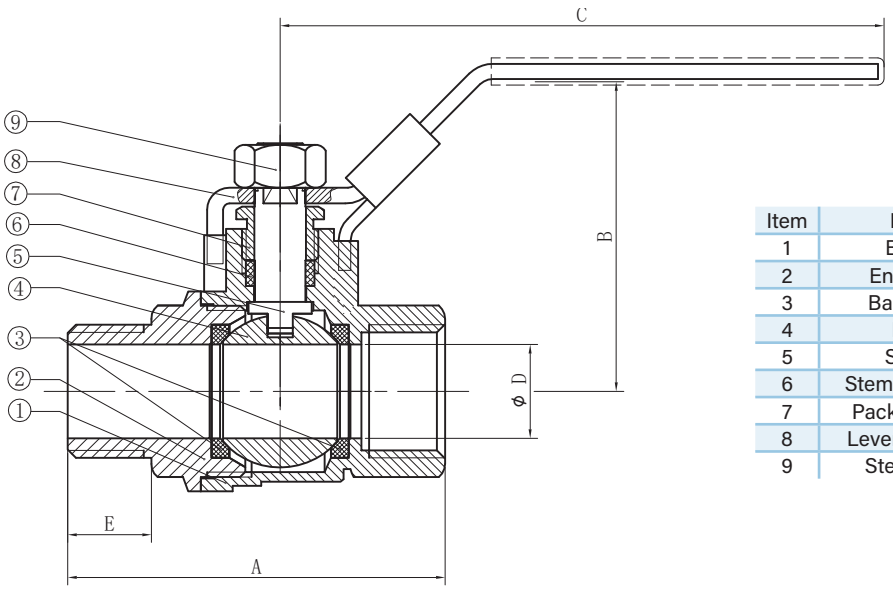
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free



PART#	SIZE	DIMENSION INCHES						Box/Case	
	NPT	A	B	C	D	E	Weight		
948170L	1/4"	2.016	1.732	3.543	0.315	0.457	0.32	70/140	----
948171L	3/8"	2.094	1.732	3.543	0.394	0.457	0.37	70/140	----
948172L	1/2"	2.343	1.941	3.543	0.583	0.520	0.50	50/100	----
948173L	3/4"	2.618	2.106	3.78	0.748	0.563	0.77	30/60	----
948174L	1"	3.000	2.579	4.528	0.945	0.630	1.21	20/40	----
948175L	1-1/4"	3.563	2.961	4.528	1.260	0.709	1.74	12/24	----
948176L	1-1/2"	3.965	3.366	5.36	1.575	0.717	2.58	9/18	----
948177L	2"	4.496	3.701	5.36	1.969	0.748	3.73	6/12	----



Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

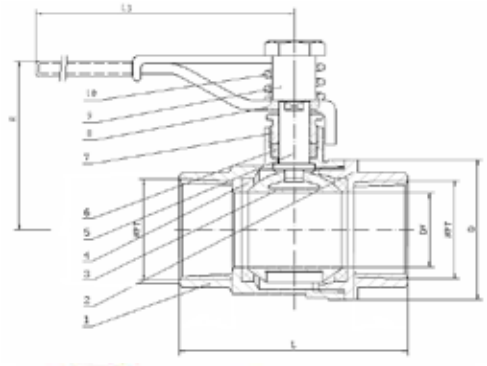
SPRING HANDLE/ RIGHT ANGLE

VALVES

BRASS SPRING HANDLE BALL VALVE

Working pressure:600 PSI for brass
Temperature Range:-40°F to 365°F(-40°C to +185°C)
Material:Brass
Spring Lever Handle w/Vinyl Grip
Made in China
Not lead free





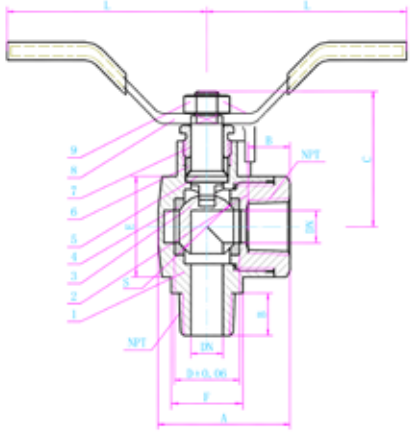
Part #	Part Name	Material
1	Body	Brass
2	Bonnet	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Stainless Steel
6	Packing Ring	PTFE
7	Gland	Brass
8	Handle	Stainless Steel
9	Bolt	Brass
10	Spring	Stainless Steel

PART#	SIZE	L	D	DN	H	L3	WTG	BOX/ CASE	
947103	1/2"	2.19	1.24	0.59	1.83	4.24	0.54	10/80	----
947104	3/4"	2.38	1.5	0.75	2.19	4.24	0.72	5/40	----
947105	1"	3.23	1.91	0.98	2.49	4.71	1.32	5/30	----

RIGHT ANGLE BRASS BALL VALVE

Working pressure: 250PSI
Temperature Range -40° to 400°F(-40 °C to +205 °C)
With lever Handle Teflon seats 2-pc,full port Heavy Duty forged Body Steel Handle w/Vinyl GripMade in China
Not lead free





Part #	Part Name	Material
1	Body	Brass
2	Cap	Brass
3	Ball	Brass
4	Seat	PTFE
5	Stem	Brass
6	Stuffing	PTFE

PART #	SIZE	A	B	C	D	S	DN	L	E	F	WTG	BOX/ CASE	
947111	1/4	1.59	0.41	1.40	0.64	0.63	0.32	2.60	0.98	0.65	0.34	12/120	----
947112	3/8	1.59	0.41	1.40	0.73	0.71	0.39	2.60	0.98	0.65	0.36	12/120	----
947113	1/2	1.73	0.55	1.40	0.79	0.87	0.55	2.60	1.08	0.83	0.47	10/80	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

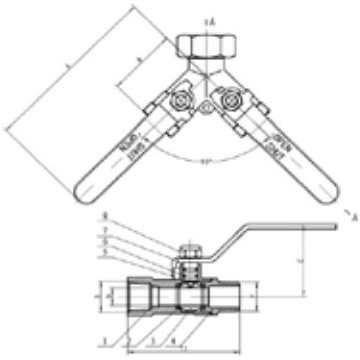
3 WAY AND SAFETY EXHAUST BALL VALVES

VALVES

3-WAY WYE BRASS BALL VALVE,VENTED AND UNVENTED

- Max.pressure:W.O.G.(water,oil,inert gas)
  Unvented Valve:600psi@70ºF
  Vented Valve:250psi@70ºF
  W.S.P.(working steam pressure)
  Unvented Valve:150psi@365ºF
  Vented Valve:Not related
- Vacuum Rating:29"Hg
- Temperature Range:-40º to 365ºF
- Ports:Full

Part#	Part Name	Material
1	Body	Brass Nickel Plated
2	Seat	PTFE
3	Ball	Brass,Cr.Plated
4	Cap	Brass Nickel Plated
5	Stem	Brass
6	O-Ring	Viton



Designed for the portable air compressor industry,these valves control the flow of water, oil, and inert gases in two direction and are great for mixing and diverting. They have a single female inlet and two male outlets with two ball valves.Valves are Brass Nickel Plated and have chrome-plated brass balls,brass blow-out proof stems ,PTFE seats and seals,and steel lever handles with vinyl grips.Vented valves has a drilled hole on the two valve balls and body that vents compressed air in the line when valve is closed. Connections:1"NPT female inlet and 3/4"NPT male outlet. ▪ Made in China ▪ Not lead free



NON-VENTED

NOW WITH STAINLESS STEEL HANDLES



VENTED

PART #	BALL	E	F	A	B	C	D	G	WTG	BOX/CASE	
947125	Non-vented	1" Female	3/4" Male	5.18"	2.5"	2.05"	0.59"	90°	1.43	2/24	----
947126	Vented								1.48	2/24	----

EXHAUST VALVES

AUTOMATIC DRAIN & LATCH LOCK HANDLE

Full port hot forged brass ball valve, blow-out proof stem, downstream automatic vent with lockable handle in compliance with OSHA requirements.

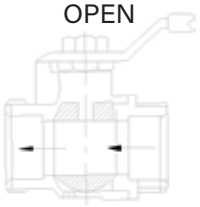
- Maximum working pressure: 200 PSI (CWP).
- Temperature rating: +15°F through +210°F.
- Made in Italy
- Not lead free



200 PSI

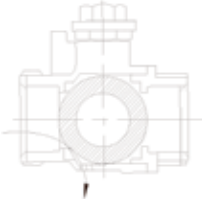
▪ w/ 10/32 UNP tap for drain.

OPEN



Valve - open position. Drain vent shut off.

CLOSED



PART#	SIZE	
948131	1/4"	----
948132	3/8"	----
948133	1/2"	----
948134	3/4"	----
948135	1"	----

Valve - closed and draining occurs. Upstream seat prevents air flow. Downstream system is vented to atmosphere.

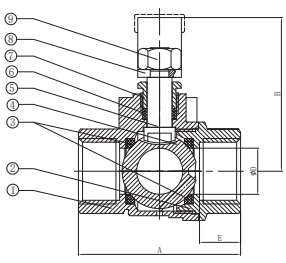
SAFETY EXHAUST BALL VALVE

- Threaded - Two Piece Body - Full Port ▪ Vented
- Blow-out Proof Stem - PTFE Seats ▪ 400 PSI WOG
- To Exhaust and Downstream Air in the Closed Position w/ locking lever handle.
- Made in China ▪ Not lead free ▪ 150 SWP





PART #	SIZE	A	B	D	E	
948141	1/4"	1.756	1.88	0.394	0.457	----
948142	3/8"	1.756	1.88	0.394	0.457	----
948143	1/2"	2.047	2.13	0.583	0.520	----
948144	3/4"	2.362	2.28	0.748	0.563	----



MATERIAL LIST

Item	Part	Material
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Nickel plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAS BALL VALVES

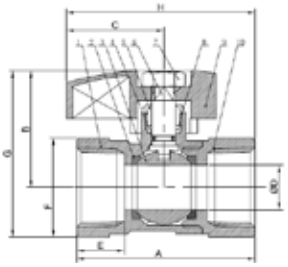
5 PSIG
C US
CSA AGA 3.88 5 PSIG

Manual Valve
UL LISTED
Threaded NPT
UL 842, UL 258, UL 125

ISO 9002 MANUFACTURER FEATURES

- Material: C37700
- Forged brass,Regular port,Thread*Flare Thread
- Thread ends in ANSI B1.20.1
- Working temperature:0-65°(32-149°)
- Pressure :1/2PSI;5PSI;
- ASME B16.44/CR91; ANSI Z21.15/CSA9.1
- UL 125 For LP-Gas 125psig
- Made in China





NO.	ITEM	TOTAL	MATERIAL
10	BALL VALVE CAP	1	BRASS
9	HANDLE	1	AL-alloy
8	PACKING	1	PTFE
7	HANDLE NUT	1	PLATED STEEL
6	STEM	1	BRASS
5	PACKING NUT	1	BRASS
4	O-RING	1	NBR
3	BALL	1	BRASS
2	SEALING WASHER	2	PTFE
1	BALL VALVE BODY	1	BRASS

GAS BALL VALVE (2-PIECE)
FEMALE X FEMALE

PART#	SIZE	WTG	BOX/CASE	
943311	3/8"	0.35	10/100	----
943312	1/2"	0.44	10/100	
943313	3/4"	0.62	10/100	----

SIZE	⌀D	A	B	C	E	F	G	H
3/8″	0.394	1.752	1.437	1.28	0.472	0.945	1.909	2.146
1/2″	0.394	2.204	1.437	1.28	0.606	1.043	1.961	2.461
3/4″	0.591	2.362	1.535	1.28	0.626	1.299	2.815	2.476



FLARE X FLARE

PART#	SIZE	
943342	3/8	----
943343	1/2	----
943345	5/8	----
943344	15/16	----



FLARE X MIP

PART#	SIZE	
943347	3/8 x 1/2	----
943348	1/2 x 1/2	----

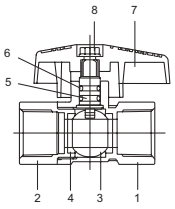


FLARE X FIP

PART#	SIZE	
943331	3/8 x 1/2	----
943332	1/2 x 1/2	----
943351	5/8 x 3/4	----
943350	15/16 x 3/4	----

- For use with natural, manufactured, mixed liquified. petroleum and LP gas-air mixtures.
- Deeper thread connections. Smooth quarter-turn.
- Manufactured to ANSI Z21.15, C.G.A. 9.1-M81, 9.2-M88, 1/2 psig. 372 also to A.G.A.3-8, C.G.A. CR91-002, 2 psig.
- Solid chrome plated brass ball
- Bottom entry
- Blow out proof design.
- Double viton o-rings stem seals
- Teflon seats for durability.
- Forged construction for greater strength.
- Larger ports for increased flow capacity.
- Red Reversible handle.
- May be used with water 400 WOG.

MADE IN ITALY

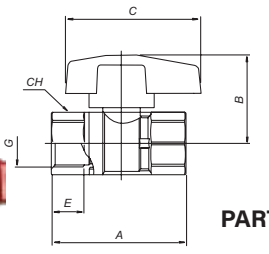


	Components	Materials
1	Body	Forged Brass
2	End Connection	Forged Brass
3	Ball	Forged Brass
4	Ball Seats	P.T.F.E.
5	Stem	Brass
6	O-Ring	NBR
7	Butterfly	Steel
8	Screw	UNI 5771 Steel

5 PSIG
C US
CSA AGA 3.88 5 PSIG

Manual Valve
UL LISTED
Threaded NPT
UL 842, UL 258, UL 125





GAS BALL VALVES
FEMALE X FEMALE

PART#	SIZE G	DIMENSION INCHES DN	A	B	C	E	CH	PN in psi	WTG	Box/ Case	
943212	1/2"	.47	2.26	1.45	2.28	.55	.98	600	0.33	20/80	
943213	3/4"	.59	2.48	1.57	2.28	.57	1.22	600	0.45	14/56	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRASS MINI BALL VALVES

VALVES

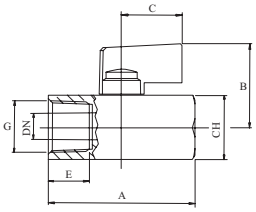
ITALIAN CHROME PLATED BRASS MINI BALL VALVE

ISO 9002 Manufacturer

FEATURES

- Solid chrome plated brass ball
- Max working pressure 235 psi will handle 300psi@75° F
- Longer body style for longer, deeper thread connections
- One piece drawn sand blasted chrome plated body.
- Each valve is seal tested for maximum safety.
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- 32°F to +176°F temperature.
- 1/4 Turn Aluminium handle with mechanical stop.
- NSF Approved valves available upon request!
- Not lead free



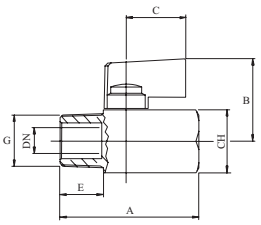


Made in Italy

Female x Female

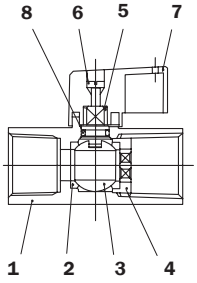
PART#	SIZE G	SIZE DN	DIMENSION INCHES A	B	C	E	CH	WTG	BOX/ CASE	
46922I	1/4"	0.31	1.81	1.17	0.9	0.51	0.83	0.24	50/200	----
46923I	3/8"	0.31	1.85	1.17	0.9	0.51	0.83	0.22	50/200	----
46924I	1/2"	0.39	2.18	1.26	0.9	0.61	0.98	0.32	30/120	----



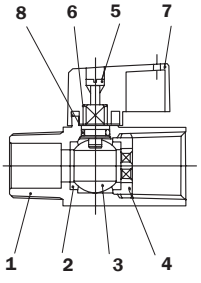


Male x Female

PART#	SIZE G	SIZE DN	DIMENSION INCHES A	B	C	E	CH	WTG	BOX/ CASE	
46903I	1/4"	0.31	1.75	1.17	0.9	.40	0.83	0.20	50/200	----
46904I	3/8"	0.31	1.81	1.17	0.9	.41	0.83	0.20	50/200	----



POS	Components	Materials	N
1	Body	CW517N Forged Brass	1
2	Ball Seats	P.T.F.E	2
3	Ball	CW517N CP Brass	1
4	Ring Unit	CW614N Brass	1
5	Stem	CW614N Brass	1
6	Screw	UNI 5771 Steel	1
7	Handle	Aluminum	1
8	O-Ring	NBR 80	1



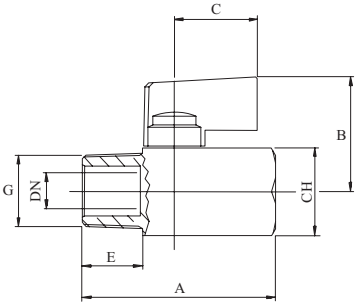
YELLOW BRASS 1/4" MINI MALE X FEMALE VALVE

- **Proprietary seal design extreme for low & high temperature applications**
- **-76° to +248°F temperature.**
- Nominal working pressure 235 psi will handle 300psi@75° F
- One piece drawn sand blasted brass plated body. Solid chrome plate brass ball
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- **1/4 TURN BLACK METAL HANDLE WITH MECHANICAL STOP**.



MALE X FEMALE

MADE IN ITALY



Part#	Size NPT	Size DN	Dimension Inches A	B	C	E	CH	CASE	
46903ISB	1/4"	0.315	1.75	1.18	0.91	0.48	0.83	200	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES
VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China

See page 107 for C/P Push-In mini ball valves



FEMALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934	1/8	1.57	0.24	0.93	1.46	0.21	20/300	----
46935	1/4	1.57	0.31	0.93	1.46	0.20	20/300	----
46936	3/8	1.57	0.28	0.93	1.46	0.22	20/300	----
46937	1/2	1.77	0.35	0.93	1.56	0.24	20/200	----

MINI BALL VALVES W/VITON SEALS



FEMALE X FEMALE - LEVER HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934L	1/8	1.57	0.24	1.99	1.50	0.21	20/300	----
46935L	1/4	1.57	0.31	1.99	1.50	0.20	20/300	----
46936L	3/8	1.60	0.28	1.99	1.50	0.22	20/300	----
46937L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	----



FEMALE X FEMALE - TEE HANDLE

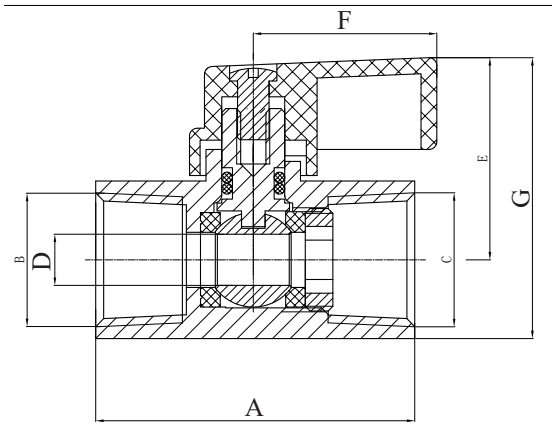
PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HAN-DLE	G			
46934LT	1/8	1.60	0.24	1.34	1.43	0.21	20/300	----
46935LT	1/4	1.57	0.31	1.34	1.43	0.20	20/300	----
46936LT	3/8	1.60	0.28	1.34	1.43	0.22	20/300	----



FEMALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/CASE	
		A	D(FLOW)			
46934LS	1/8	1.57	0.24	0.21	20/300	----
46935LS	1/4	1.57	0.31	0.20	20/300	----
46936LS	3/8	1.57	0.28	0.22	20/300	----
46937LS	1/2	1.77	0.35	0.24	20/200	----

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all oth-ers	Viton	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MINI BALL VALVES
VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China



MALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930	1/8	1.57	0.24	0.93	1.46	0.17	20/300	----
46931	1/4	1.57	0.31	0.93	1.46	0.15	20/300	----
46932	3/8	1.57	0.28	0.93	1.46	0.21	20/300	----
46933	1/2	1.77	0.35	0.93	1.56	0.24	20/200	----

MINI BALL VALVES W/VITON SEALS



MALE X FEMALE - LEVER HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930L	1/8	1.57	0.24	1.99	1.50	0.17	20/300	----
46931L	1/4	1.57	0.31	1.99	1.50	0.15	20/300	----
46932L	3/8	1.57	0.28	1.99	1.50	0.21	20/300	----
46933L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	----



MALE X FEMALE - TEE HANDLE

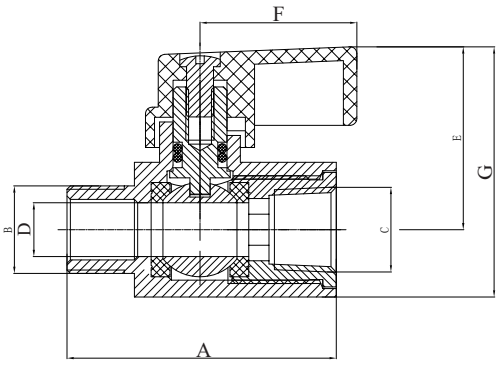
PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HANDLE	G			
46930T	1/8	1.57	0.24	1.34	1.46	0.17	20/300	----
46931T	1/4	1.57	0.31	1.34	1.46	0.15	20/300	----
46932T	3/8	1.57	0.28	1.34	1.40	0.21	20/300	----
46933T	1/2	1.77	0.35	1.34	1.56	0.24	20/200	----



MALE X FEMALE - SCREWDRIVER

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/ CASE	
		A	D(FLOW)			
46930S	1/8	1.57	0.24	0.17	20/300	----
46931S	1/4	1.57	0.31	0.15	20/300	----
46932S	3/8	1.57	0.28	0.21	20/300	----
46933S	1/2	1.77	0.35	0.24	20/200	----

- Not lead free



Pos	Components	Materials	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1

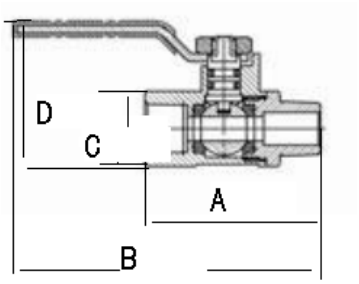
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS MINI-BALL VALVES

- 180⁰ operational handle, blow out proof stem. Stem with double "O" Rings
- 200 WOG
- Temp rating -20°F - 250°F
- Generic Handles
- Not lead free

See page 107 for C/P mini ball valves

NO	Part Name	Material	QTY
1	Nut	Steel	1
2	Handle	Steel	1
3	Cover	PVC	1
4	O-Ring	NBR	2
5	Stem	Brass	1
6	Body	Brass	1
7	Seat	Teflon	2
8	Ball Disc	Brass	1
9	End Plug	Brass	1





FEMALE X FEMALE

PART #	SIZE	A	B	C	D	
944113	1/8	1.53	2.80	0.73	1.42	----
944116	1/4	1.53	2.80	0.73	1.42	----
944117	3/8	1.73	2.90	0.87	1.50	----
944140	1/2	2.20	3.08	0.98	1.45	----



FEMALE X MALE

PART #	SIZE	A	B	C	D	
944106	1/8	1.69	3.02	0.73	1.46	----
944100	1/4X1/8	1.28	2.90	0.66	1.32	----
944101	1/4	1.70	3.00	0.73	1.46	----
944103	3/8	1.78	3.02	0.87	1.50	----
944102	3/8X1/4	1.78	2.50	0.89	1.50	----



MALE X MALE

PART #	SIZE	A	B	C	D	
944107	1/8	1.70	2.94	0.65	1.42	----
944109	1/4	1.25	2.66	0.65	1.42	----
944110	3/8	1.90	2.98	0.73	1.42	----
944112	1/2	2.56	4.93	1.02	2.21	----



HOSE BARB X MALE

PART #	SIZE	A	B	C	D	
944132	1/4X1/8	2.05	2.91	0.73	1.51	----
944138	1/4X1/4	2.08	2.98	0.73	1.51	----
944128	3/8X1/4	2.08	3.04	0.73	1.51	----
944130	3/8X3/8	2.12	3.06	0.73	1.51	----
944139	1/2X1/2	2.15	3.19	0.73	1.51	----



HOSE BARB X FEMALE

PART #	SIZE	A	B	C	D	
944135	1/8X1/8	1.78	2.44	0.62	1.38	----
944136	1/4X1/4	1.97	2.87	0.73	1.55	----



HOSE BARB X HOSE BARB

PART #	SIZE	A	B	C	D	
944142	1/4X1/4	2.47	3.19	0.73	1.55	----
944134	3/8X3/8	2.47	3.18	0.73	1.55	----

LEAD FREE

PART #	SIZE	A	B	C	D	
944142LF	1/4	2.49	3.19	0.73	1.55	----
944134LF	3/8	2.47	3.18	0.73	1.55	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

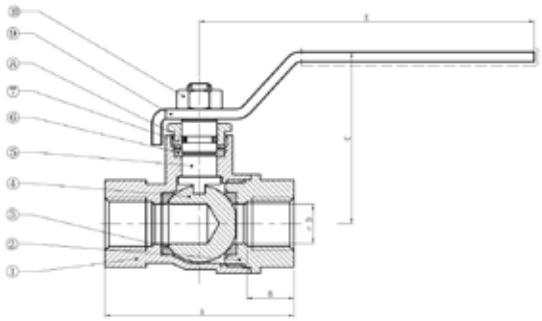
SIDE OUTLET 3-WAY BALL VALVE

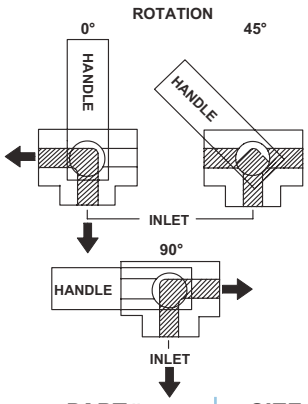
• BRASS • 600WOG • FULL PORT

- Forged Brass
- 600 WOG
- Temp Rating 0-230°F
- 150 SWP



- Side outlet





- Full Port
- Blow-out proof stem
- double o-ring stem packing
- PTFE Seal
- Made in China
- Not lead free

Nomenclature & Materials

NO	Part Name	Material	Qty
1	Body	Brass	1
2	End Cap	Brass	1
3	Ball Seat	PTFE	1
4	Ball	Brass	1
5	Stem	Brass	2
6	Seal	PTFE	1
7	Impacted Nut	Brass	1
8	O-Ring	NBR	2
9	Lever Handle	Steel	1
10	Stem Nut	Steel	1

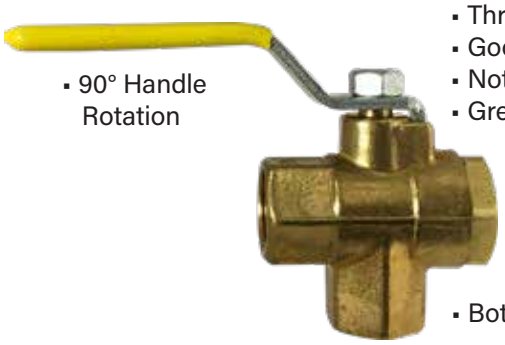
PART#	SIZE	I	H	D	L	A	WTG	BOX/ CASE	
940464	1/4"	1.89	1.73	0.39	3.58	0.47	0.51	50/100	----
940465	3/8"	1.89	1.73	0.39	3.35	0.47	0.57	50/100	----
940461	1/2"	2.11	1.80	0.50	3.58	0.51	0.65	30/60	----
940462	3/4"	2.56	2.16	0.74	4.31	0.55	0.99	20/40	----

BOTTOM OUTLET 3 WAY BALL VALVE

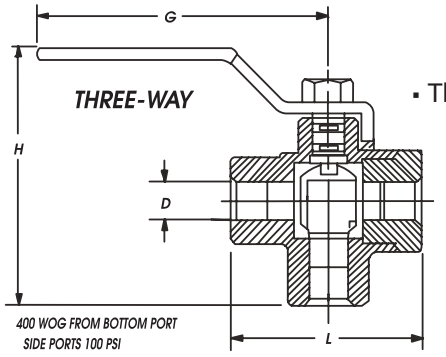
- Forged Brass
  Bottom Port is inlet 400 psi
  Side Ports are inlet 100 psi

- Teflon ball seats
- Double O-Ring Stem Seals - primary seal is Viton secondary seal is Aflas
- Blow out proof stem
- Made in USA
- Threaded ports
- Good for propane
- Not lead free
- Great for diesel fuel

- 90° Handle Rotation



- Bottom outlet



- Threaded

PART#	SIZE	D	G	H	L	CV	WTG	
940121	1/4"	.44	3.50	3.12	2.25	5.2	0.76	----
940122	3/8"	.50	3.50	3.12	2.25	5.5	0.69	----
940123	1/2"	.50	3.50	3.12	2.25	5.5	1.00	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

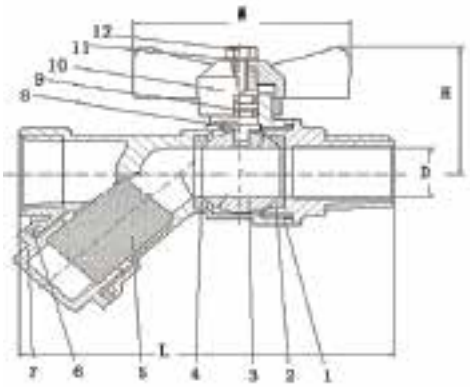
MISCELLANEOUS VALVES
VALVES

BRASS BALL VALVE WITH STRAINER

All-in-One design for economical ,compact and convenient .With stamped stainless Steel Screen . 600PSI WOG Forged brass body,Crome plated ball ,PTFE ball seats and cap seal , and rubber o-ring stem seals. Not lead free



Part #	Part Name	Material
1	Body	Brass
2	Caps	Brass
3	Ball	Brass,Cr. Plated
4	Seat	PTFE
5	Filter	SS
6	Gasket	PTFE
7	Caps	Brass
8	Stem	Brass
9	O-Ring	Viton
10	Handle	Zinc



PART #	SIZE	L	D	W	H	WTG	BOX/CASE	
947133	1/2"x1/2"(MxF)	3.77"	0.59"	2.00"	1.50"	0.60	8/64	----
947134	3/4"x3/4"(MxF)	4.32"	0.75"	2.40"	1.85"	1.00	8/64	----

VACUUM BREAKER

- Male hose and female hose threads can be broken off for permanent attachment
- Set screw
- Vandal proof
- Rough brass construction
- Prevents back-siphonage on hoses to prevent potable water from getting contaminated
- Certified under ASSE Std. 1011
- UPC
- CSA



PART #	SIZE	
947055	3/4" x 3/4"	----
947055LF	3/4" x 3/4"	----

RADIATOR AIR VALVE

COIN SLOT OR LOSSE KEY



PART #	SIZE	
943284	1/8" MIP	----
943287	Key only	----

ANGLE SILLCOCKS

3/4" HOSE THREAD OUTLET

- Notched flange for convenient installation.
- Heavy brass construction.
- Cast Iron handle.
- Not lead free



FEMALE IPS

PART #	SIZE	BOX	
942142	1/2	12	----

HOSE BIBBS
3/4" HOSE THREAD OUTLET



IPS

PART #	SIZE	WTG	BOX/ CASE	
942170	1/2 (1/2"C)	0.33	10/100	----
942171	3/4	0.35	10/100	----

BENT NOSE GARDEN VALVES

- Heavy brass construction
- Cast iron handle
- Stuffing box
- Neoprene seal disc



PART #	SIZE	BOX	CASE	
942100	1/2"	12	72	----
942101	3/4"	12	72	----
942102	1"	12	72	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS GATE VALVE

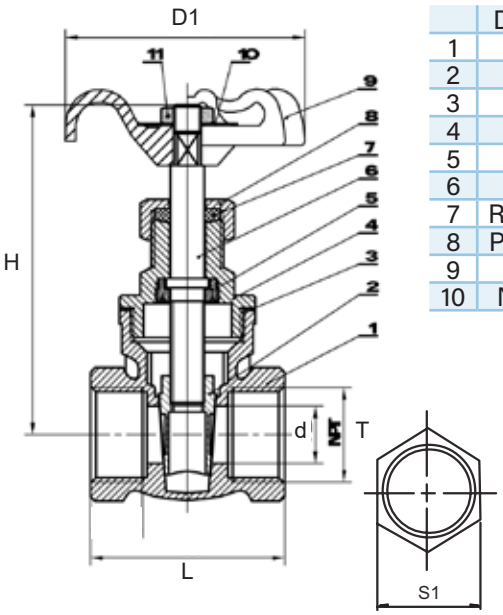
• BRASS • 200WOG • FULL PORT

- 200 WOG (cold water, oil, gas).
- Full-port design for a better water flow.
- Screw-in Bonnet - Non-Rising Stem - Solid Wedge
- NPT Threaded ends to ANSI B1.20.1
- Cast iron handle.
- Each valve individually air tested under water.
- Good for diesel fuel.
- Made in Indonesia
- Not lead free
- Temp. 32°-320°F



BRASS GATE VALVES IPS

PART#	SIZE	L	H	D1	D	T	S1	WEIGHT	BOX/CASE	
940130	1/4	1.64	2.91	2.09	0.44	1/4-18 NPT	.85	0.60	10/120	----
940131	3/8	1.71	2.91	2.09	0.48	3/8-18 NPT	.85	0.59	10/120	----
940132	1/2	1.71	2.91	2.09	0.50	1/2-14 NPT	1.03	0.75	10/120	----
940133	3/4	1.71	3.06	2.13	0.74	3/4-14 NPT	1.26	0.83	10/80	----
940134	1	2.13	3.60	2.48	0.97	1-11.5 NPT	1.51	1.24	5/60	----
940135	1-1/4	2.24	4.50	2.66	1.22	1-1/4-11.5 NPT	1.89	1.69	5/40	----
940136	1-1/2	2.44	5.08	3.15	1.45	1-1/2-11.5 NPT	2.17	2.17	5/30	----
940137	2	2.70	5.94	3.52	1.85	2-11.5 NPT	2.60	3.33	2/24	----
940138	2-1/2	3.70	7.87	3.98	2.48	2-1/2-8 NPT	3.27	6.26	1/10	----
940139	3	4.02	8.82	4.37	2.80	3-8 NPT	3.86	8.34	1/6	----
940140	4	4.53	9.88	4.74	3.60	4-8 NPT	4.88	13.09	1/4	----



	Description	Material
1	Body	C85700
2	Disk	C85700
3	Seat	PTFE
4	Cap	C85700
5	Packing	C85700
6	Stem	C85700
7	Rubber Seat	NBR
8	Packing Nut	C85700
9	Handle	Cast Iron
10	Nameplate	AL

Crown handle
1/2-1/4



X handle
1/2-1/4



Add "*C*" to part# for Crown handle, "*X*" for X handle.

See page 218 for SS Gate Valve



See Lead Free section page 182 for lead free Gate Valves.

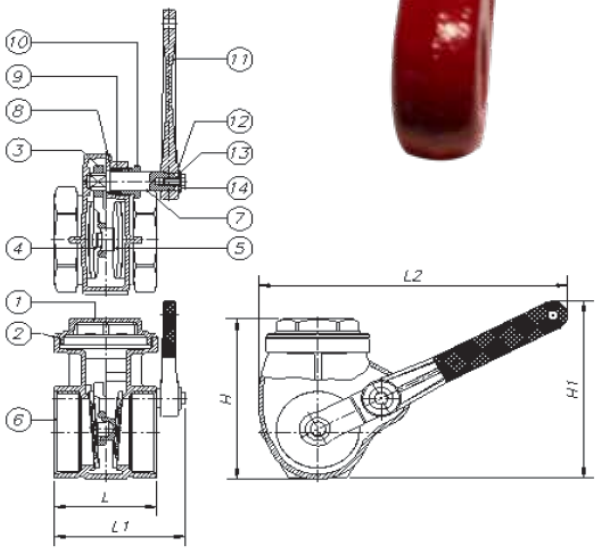


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GATE VALVE QUICK OPENING

Features: Bronze Material, Threaded Ends





MATERIAL SPECIFICATION

No.	Part	Bronze
1	BONNET	BRASS (C85700)
2	PACKING	FIBRE
3	ARM	BRASS (C85700)
4	DISC MALE	BRASS (C85700)
5	DISC FEMALE	BRASS (C85700)
6	BODY	BRASS (C85700)
7	STEM	BRASS (C37700)
8	WASHER	BRASS (C37700)
9	PACKING	TEFLON POLYFLON (PTFE M-392)
10	PACKING NUT	BRASS (C37700)
11	HANDLE	CAST IRON (JIS ZZ2202) RUBBER COATING BRASS (C85700)
12	NAME PLATE	ALUMINIUM (A1100)
13	WASHER	HOT ROLLED (SAE 1010R)
14	HANDLE BOLT	HOT ROLLED (SAE 1010R)

PART #	SIZE	L	L1	L2	H	H1	BOX	CASE	
941133	1/2"	45.6	60.6	119	56.8	52.8	10	50	----
941134	3/4"	51	62	126.3	68	87.5	10	50	----
941135	1"	58.3	72.3	155	78.7	90.2	10	30	----
941136	1-1/4"	30.1	78	180.2	89.5	104	5	25	----
941137	1-1/2"	66.7	85.3	196.6	99.2	131	6	18	----
941138	2"	76.4	90.3	250.6	119.3	143.7	2	10	----
941140	3"	101	129.2	305.6	172.2	191.3	2	6	----
941141	4"	114.5	150.7	378.2	213.5	248.6	1	2	----

Ignorance, the root and stem of all evil. - Plato

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

Y-PATTERN STRAINER
VALVES

CLASS 150 BRASS Y-PATTERN STRAINER

- Forged Brass body, size 1/4"-3".
- Pressure rating: 150 WOG (water, oil, gas)/PN25
  150 WSP (Saturated Stem)
- NPT Threaded ends to ANSI B1.20.1
- Protects regulators, pumps, meters and other controls from damage due to sediment scale, metal chips or other foreign materials.
- Screwed cap is threaded & gasketed.
- Tapped drain plug opening in cap.
- 304 stainless steel screen #20 mesh.
- Self cleaning.
- Self cleaning can be accomplished by opening the valve or plug connected to the blow-off outlet.
- Made in Indonesia
- NOT LEAD FREE
- w/20 Mesh Screen
- Temp 180°F



PART#	SIZE	L	H	C (PLUG)	WEIGHT	BOX/CASE	
940521	1/4"	2.57	1.95	NPT 3/8	.53	10/100	----
940522	3/8"	3.23	2.44	NPT 3/8	.71	12/48	----
940523	1/2"	3.23	2.44	NPT 3/8	.66	12/48	----
940524	3/4"	3.94	2.78	NPT 3/8	1.10	8/48	----
940525	1"	4.53	3.19	NPT 1/2	1.71	8/32	----
940526	1-1/4"	5.33	3.66	NPT 1/2	2.49	6/24	----
940527	1-1/2"	6.20	3.82	NPT 1/2	3.24	2/16	----
940528	2"	7.44	4.65	NPT 1/2	5.39	2/8	----
940529	2-1/2"	9.50	5.39	NPT 3/4	9.56	1/6	----
940530	3"	9.4	5.67	NPT 3/4	13.49	1/4	----

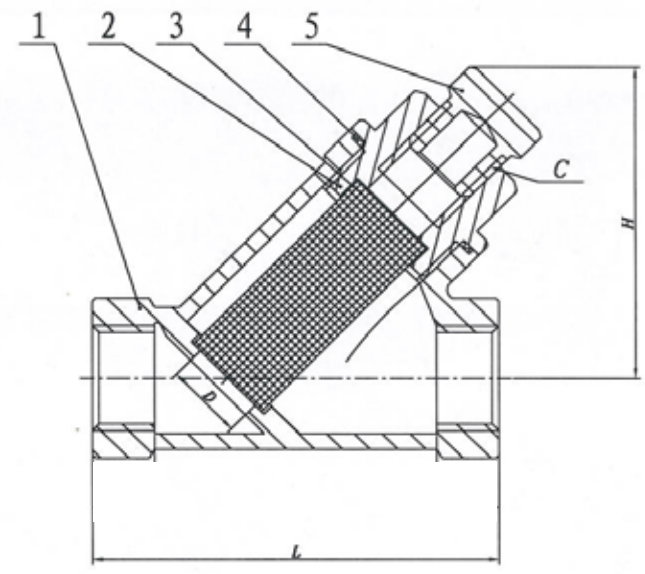
Add 'S' to part # for replacement



See page 172 for 1/2" Lead Free



See page 207 for SS Y Strainer



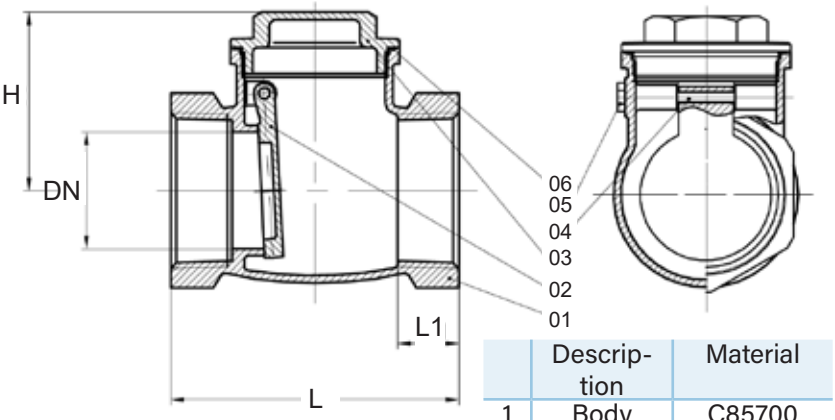
	Name	Material
1	BODY	C85700
2	BONNET	C85700
3	STRAINER	304 S.S.
4	SPRING SEAL	PTFE

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SWING CHECK VALVES

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90⁰ Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications.
- Threaded ends to ANSI B1.20.1
- Integral seat.
- Temp range -5° - 150F°
- NOT LEAD FREE
- Cracking pressure 3-5 psi
- Made in Indonesia





	Descrip-tion	Material
1	Body	C85700
2	Disc	C85700
3	Cap	C85700

CAST BRASS SWING CHECK VALVES IPS SCREWED ENDS

PART #	SIZE	L	H	L1	DN	WEIGHT	BOX/CASE	
940352	1/2	2.09	1.42	0.531	0.512	.41	10/100	----
940353	3/4	2.36	1.56	0.579	0.728	.56	10/80	----
940354	1	2.62	1.77	0.748	0.925	.73	5/60	----
940355	1-1/4	3.19	2.07	0.748	1.201	1.36	5/40	----
940356	1-1/2	3.54	2.16	0.846	1.417	1.56	5/30	----
940357	2	4.21	2.74	0.886	1.772	2.58	2/20	----
940358	2-1/2	5.14	3.09	1.063	2.224	4.55	1/15	----
940359	3	5.77	3.80	1.102	2.579	6.53	1/6	----
940360	4	6.84	4.25	1.102	3.602	10.18	1/4	----





▪ See page 182 for Lead Free Brass Swing Check

▪ See page 218 for SS Swing Check Valves

Y PATTERN BRASS SWING CHECK VALVE SCREWED ENDS



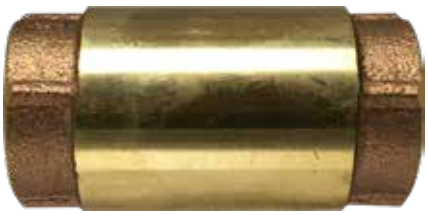
PART #	SIZE	
940-352B	1/2"	----
940-353B	3/4"	----
940-354B	1"	----
940-355B	1-1/4"	----
940-356B	1-1/2"	----
940-357B	2"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS CHECK VALVES

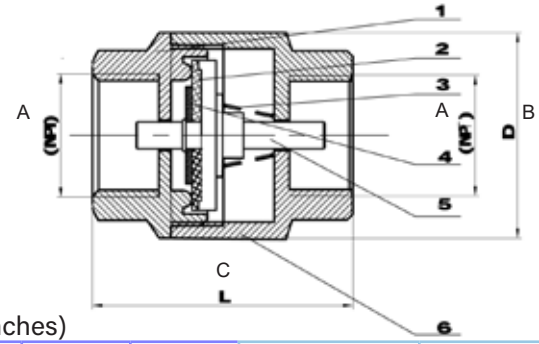
S.S. SPRING LOADED BRONZE POPPET - For positive sealing & self-cleaning. Insures against leakage.

- Inline Lift Type - Resilient Discs - Spring Actuated - Threaded.
- Presure rating: 200 WOG (water, oil, gas) / 125 WSP (Saturated Steam)
- Spring in stainless steel AISI 304. ▪ Resilient washer hold/ disc in brass. ▪ Forged Brass Body for 1/2"-2"
- Corrosion resistant material. ▪ Can be used vertically or horizontally. ▪ Opens & Closes with flow of media.
- No cracking pressure. ▪ NOT LEAD FREE ▪ Made in Indonesia



1/4 Made in Taiwan

Temp Range
-10°C - 110°C
14°F - 248°F



Brass Check Valve (Inches)

Part#	Size	Enters Pipe Size	A NPT	B	C	Weight	Box/Case	
944428	1/4"	-	1/4"	1.00	2.29	.24	24/192	----
944429	3/8"	-	3/8"	1.00	2.07	.23	10/100	----
944430	1/2"	1-1/4"	1/2"	1.26	2.40	.42	10/100	----
944431	3/4"	1-1/4"	3/4"	1.45	2.74	.53	10/80	----
944432	1"	2"	1"	1.77	3.23	.80	6/60	----
944433	1-1/4"	2-1/2"	1-1/4"	2.13	3.62	1.18	4/40	----
944434	1-1/2"	3"	1-1/2"	2.29	4.04	1.40	5/30	----



▪ See page 182 for Lead Free Brass Check

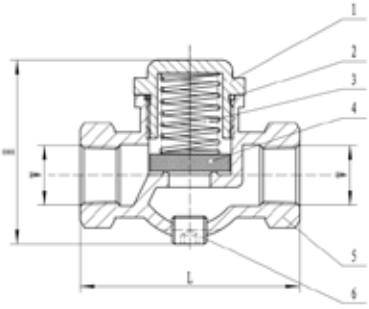


▪ See page 215 for SS Check Valves

IN LINE CHECK VALVES VERTICAL OR HORIZONTAL

• Working Pressure: 250 PSI • Temperature Range: -40° to 450°F(-40°to 230°C)
• Cracking Pressure: 3 PSI • Made in China • Not lead free
• Applications:Air Compressor Discharge Lines, may also used on water or oil lines
• Construction:Cast Bronze Body,Corrosion Resistant Stainless Steel Spring to Ensure Long Life,15% Glass Filled • Teflon Poppet,C360 Machined Brass Cap,1/8 NPT Unloader Port is Standard • Repairable





Part#	Part Name	Material
6	Plug	Brass
5	Body	Bronze
4	Gasket	PTPF
3	Spring	S.Steel
2	O-ring	HNBR
1	Cap	Brass

PART #	SIZE	W	L	H	WTG	BOX/CASE	
947140	1/8"	1/8	1.75	1.34	0.28	20/100	----
947141	1/4"	1/4	1.75	1.37	0.29	20/100	----
947142	3/8"	3/8	2.50	2.18	0.62	10/50	----
947143	1/2"	1/2	2.50	2.13	0.54	10/50	----
947144	3/4"	3/4	2.88	2.64	1.17	8/40	----
947145	1"	1	3.61	3.30	1.98	2/20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS IN-LINE CHECK VALVES

High Capacity, Size 1/4"-2" 400 WOG, 2 1/2"-4" 175 WOG

- Soft Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action.
- Compact design.
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 210°F.
- Polyethermide Disc to ensure the Best Resistance For Corrosion and Abrasion.
- Patented Disc Guide to Prevent Any Side Loading.
- Connection: FNPT x FNPT.
- Made in Italy ▪ Not lead free

NBR for water, oils and general purpose.
With VITON® Seal for fuels and hydrocarbons. Max working TEMPERATURE 325°F/125 psi steam

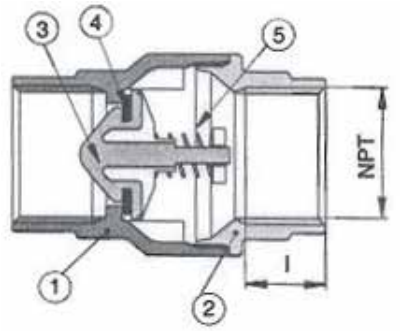
Add V to part# for Viton®





BRASS IN-LINE CHECK

PART#		SIZE	I	PSI	LBS	CASE	VITON PART#	
944401	----	1/4"	0.39	400	0.22	144		
944402	----	3/8"	0.40	400	0.18	144	944402V	----
944403	----	1/2"	0.60	400	0.32	144	944403V	----
944404	----	3/4"	0.65	400	0.49	90	944404V	----
944405	----	1"	0.66	400	0.71	90	944405V	----
944406	----	1-1/4"	0.68	400	1.13	30	944406V	----
944407	----	1-1/2"	0.68	400	1.53	30	944407V	----
944408	----	2"	0.69	400	2.28	12	944408V	----
944409	----	2-1/2"	0.93	175	4.83	4	944409V	----
944410	----	3"	1.01	175	6.70	4	944410V	----
944411	----	4"	1.09	175	12.43	2	944411V	----



NO	Part	Material	PCS
1	BODY	BRASS	1
2	END CONNECTION	BRASS	1
3	DISC	POLYETHERIMIDE	1
4	SEAT	100002 NBR	1
		100003 Viton	1
5	SPRING	STAINLESS STEEL	1

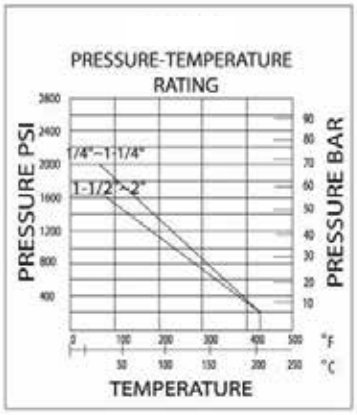
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS FULL PORT VALVES
VALVES

316 SS 2-PC BALL VALVE, FULL PORT, THREADED END, 2000 PSI

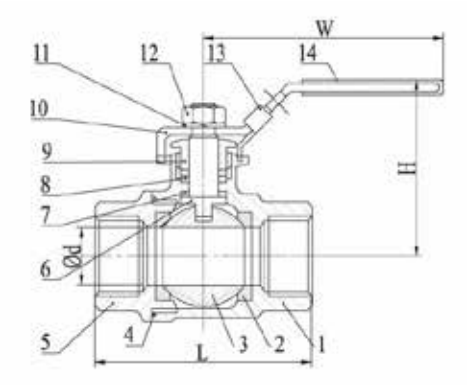
- Investment Castings for body and cap.
- Internal Entry blow-out proof stem.
- Pressure rating: 2000PSI.
- Threaded Ends: ANSI B2,1
- Material: CF8M (316SS)
- Pressure test: API 598
- Generic Handles





LOCKING HANDLE

PART#	SIZE	D	L	H	W	N.M	LBS/ PC	CASE	
949171	1/4"	0.36	2.13	2.13	4.33	.157	0.64	80	----
949172	3/8"	0.50	2.13	2.16	4.33	.157	0.58	80	----
949173	1/2"	0.59	2.24	2.28	4.53	.197	0.71	70	----
949174	3/4"	0.79	2.76	2.40	4.53	.315	1.18	50	----
949175	1"	0.98	3.50	3.03	6.04	.394	2.33	30	----
949176	1-1/4"	1.25	4.12	3.19	6.04	.551	3.48	20	----
949177	1-1/2"	1.50	4.05	3.54	6.10	.709	4.03	14	----
949178	2"	1.96	4.90	4.25	6.10	.984	7.50	7	----



NO	Part	Material	QTY
1	BODY	316SS	1
2	BALL SEAT	PTFE	2
3	BALL	316SS	1
4	BODY SEAL	PTFE	1
5	CAP	316SS	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	HANDLE	SS304	1
11	WASHER	SS304	1
12	NUT	SS304	1
13	LOCK DEVICE	SS304	1
14	HANDLE COVER	PLASTIC	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ONE PIECE STANDARD PORT BALL VALVE

316 Stainless Steel

1000 PSI

- Manufactured for harsh environments with female NPT threads.
- Locking handle for greater security.
- Standard port has restricted flow.
- Made with corrosion resistant stainless steel materials.
- PTFE seat and seals.
- Investment Castings for Body and Cap.
- Internal Entry Blow-out proof stem.
- Pressure rating: 1000PSI (PN63)
- Threaded Ends: ANSI B2.1
- Material: CF8M
- Pressure Test: API 598
- Generic handles



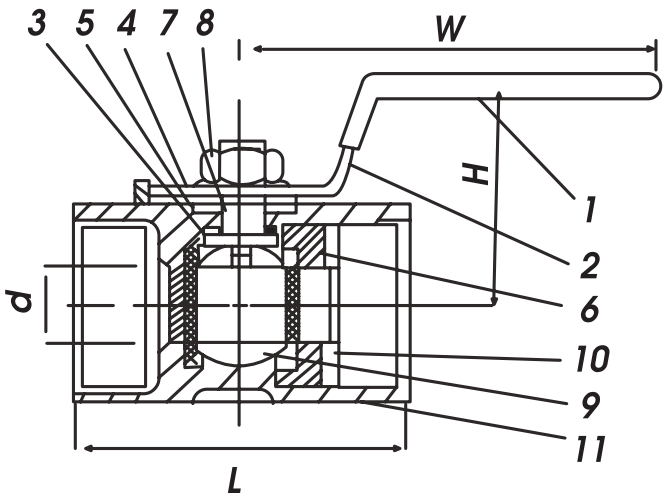
LOCKING HANDLE

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	
949101	1/4"	0.20	1.53	1.53	3.03	0.19	150	----
949102	3/8"	0.27	1.74	1.53	3.03	0.23	150	----
949103	1/2"	0.36	2.24	1.73	3.46	0.41	100	----
949104	3/4"	0.50	2.32	1.89	3.46	0.63	70	----
949105	1"	0.59	2.80	2.24	4.29	0.86	50	----
949106	1-1/4"	0.79	3.07	2.32	4.29	1.34	30	----
949107	1-1/2"	0.98	3.26	2.76	5.14	2.00	25	----
949108	2"	1.25	3.94	2.24	6.50	2.88	15	----

Larger sizes available on special order basis



Item	Parts	Material
1	Plastic Cover	Plastic
2	Handle	AISI 304 SS
3	Thrust Washer	PTFE
4	Packing Ring	AISI 304 SS
5	Stem Packing	PTFE
6	Seat	PTFE
7	Seat	AISI 316 SS
8	Stem Nut	AISI 304 SS
9	Ball	316SS ASTM-A351 CF8M
10	Cap	316SS ASTM-A351 CF8M
11	Body	316SS ASTM-A351 CF8M

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS TWO PIECE FULL PORT VALVES

VALVES

TWO PIECE FULL PORT BALL VALVE

316 Stainless Steel

1000 PSI

Materials: CFM8M (SS316)

Features:

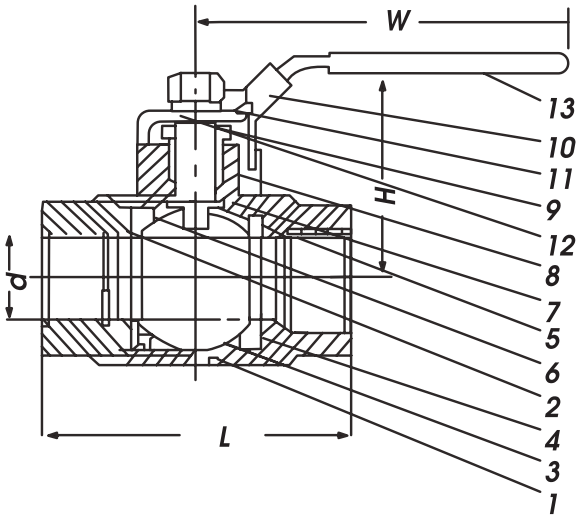
- Quality manufactured for harsh environments.
- Corrrosion resistant.
- Investment Casting body
- Working pressure 1000 psi for W.O.G.
- Adjustable stem packing
- Pure teflon seals and seats
- Temperature range: -60 to 450°F
- Blow-out proof stem and safe pressure-reducing hole
- 100% leakage tested at 100 psi air under water
- Hydrostatic test pressure: 1500 psi
- Locking handle w/ blue generic sleeve
- 125 Steam rated
- Generic Handles



Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	
949161	1/4"	0.36	2.13	2.13	4.33	0.51	80	----
949162	3/8"	0.50	2.13	2.16	4.33	0.49	80	----
949163	1/2"	0.59	2.24	2.28	4.17	0.69	70	----
949164	3/4"	0.79	2.68	2.40	4.17	1.03	50	----
949165	1"	0.98	3.15	2.50	4.88	1.40	30	----
949166	1-1/4"	1.26	3.58	3.19	5.04	2.17	20	----
949167	1-1/2"	1.49	4.05	3.54	6.10	3.33	12	----
949168	2"	1.97	4.88	4.25	6.13	6.02	7	----
949170	3"	3.15	7.28	5.71	9.06	21.01	2	----
949180	4"	3.94	8.84	7.28	11.10	36.18	1	----



Item	Parts	Material
1	Body	316SS ASTM-A351 CF8M
2	Body Cap	316SS ASTM-A351 CF8M
3	Ball	316SS ASTM-A351 CF8M
4	Seat	Reinforced PTFE
5	Stem	AISI 316 SS
6	Seal	Reinforced PTFE
7	Thrust Washer	Reinforced PTFE
8	Packing	Reinforced PTFE
9	Gland Nut	AISI 304SS
10/11	Nut & Washer	AISI 304SS
12	Handle	AISI 304SS
13	Plastic Cover	Plastic

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL MIN BALL VALVES

- 316 Stainless Steel
- Working pressure 400PSI
- Working Temperature -10°C to 150°C



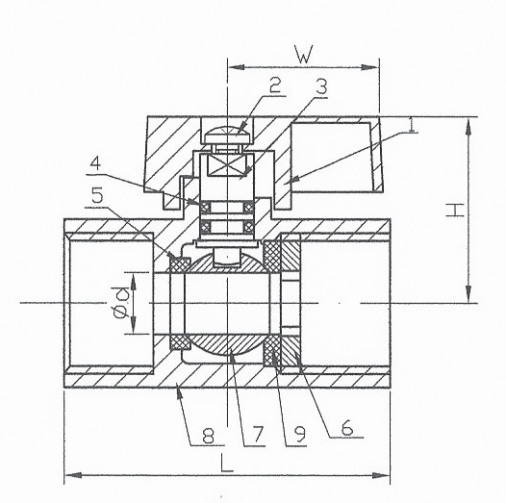
FEMALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	
46934SS	1/8"	.898	.197	.985	1.693	.18	150	----
46935SS	1/4"	.898	.276	.984	1.693	.21	150	----
46936SS	3/8"	.898	.276	.984	1.693	.19	150	----
46937SS	1/2"	.898	.362	1.114	1.811	.26	100	----



MALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	
46930SS	1/8"	.898	.197	.985	1.693	.18	150	----
46931SS	1/4"	.898	.276	.984	1.693	.18	150	----
46932SS	3/8"	.898	.276	.984	1.693	.19	150	----
46933SS	1/2"	.898	.362	1.114	1.811	.26	100	----



NO	Part	Material	QTY
1	LEVER	ALUMINIUM ALLOY	1
	HANDLES	PLASTIC	
2	BOLT	304	1
3	STEM	304/ 316	1
4	"O" RING	NBR	1~2
5	BALL SEAT (A)	PTFE	1
6	CAP	CF8/ CF8M	1
7	BALL	CF8/ CF8M	1
8	BODY	CF8/ CF8M	1
9	BALL SEAT (B)	PTFE	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MINI BALL VALVES

VALVES

MINI STAINLESS STEEL BALL VALVE ,WITH BUTTERFLY HANDLE

1000PSI WOG , 150PSI WSP
Temperature Range: -36°F to + 368°F
Full Port for 1/4" , Standard port for 3/8" and 1/2"
316 Stainless Steel body and Ball
Teflon seats and sealing

- Viton O-Ring
- #316 Stainless Steel
- Made in China



FEMALE PIPE X FEMALE PIPE

PART #	SIZE FIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46922SS	1/4"×1/4"	0.314"	2.34"	22.1/0.87"	1.5"	0.33	36	----
46923SS	3/8"×3/8"	0.314"	2.39"	22.1/0.87"	1.5"	0.39	36	----
46924SS	1/2"×1/2"	0.314"	2.81"	24.9/0.98"	1.5"	0.43	36	----



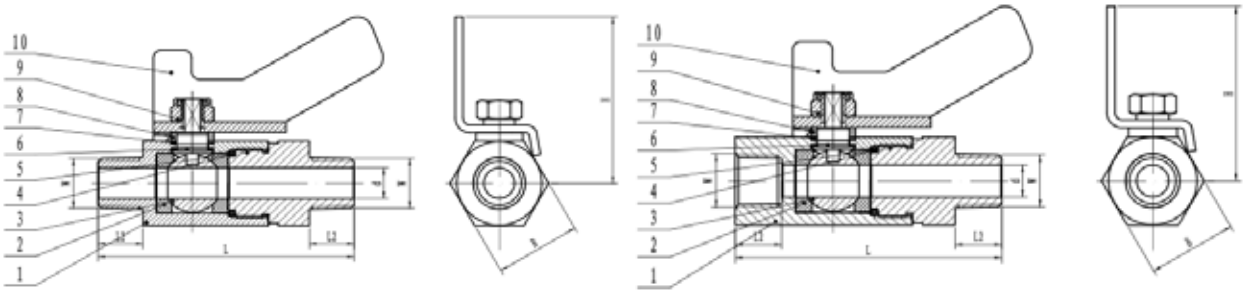
MALE PIPE X FEMALE PIPE

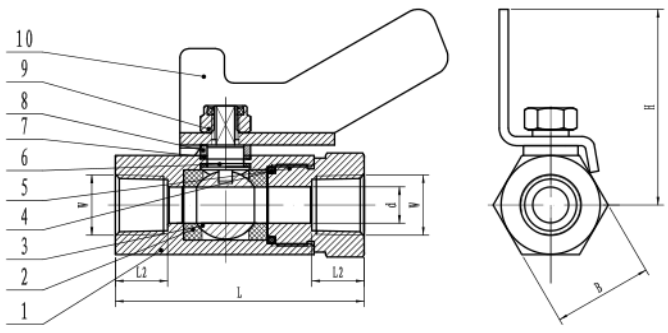
PART #	SIZE MIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46903SS	1/4"×1/4"	0.314"	2.45"	0.87"	1.5"	0.39	36	----
46904SS	3/8"×3/8"	0.314"	2.45"	0.87"	1.5"	0.36	36	----
46905SS	1/2"×1/2"	0.314"	2.81"	0.98"	1.5"	0.41	36	----



MALE PIPE X MALE PIPE

PART #	SIZE MIP X MIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46912SS	1/4"×1/4"	0.314"	2.59"	0.87"	1.5"	0.33	36	----
46913SS	3/8"×3/8"	0.314"	2.65"	0.87"	1.5"	0.34	36	----
46914SS	1/2"×1/2"	0.314"	2.47"	0.98"	1.5"	0.63	36	----





Part #	Part Name	Material
1	Body	S316
2	Seat	PTFE
3	Ball	S316
4	O-Ring	Viton
5	Cap	S316
6	Stem	S316
7	Stem Bottom Seal	PTFE
8	Stem Up Seal	PTFE

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

#304 STAINLESS STEEL

CHECK VALVE

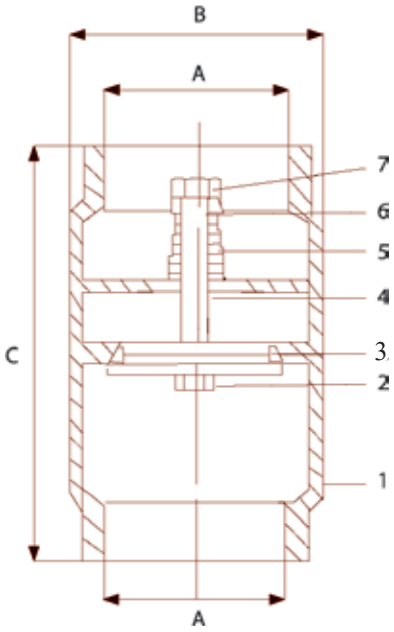
- No Lead.
- Water wells need a check valve installed above the pumps between lengths of drop pipes.
- Opens & Closes with flow of media.
- No cracking pressure.
- Working pressure unavailable.
- Made in Taiwan

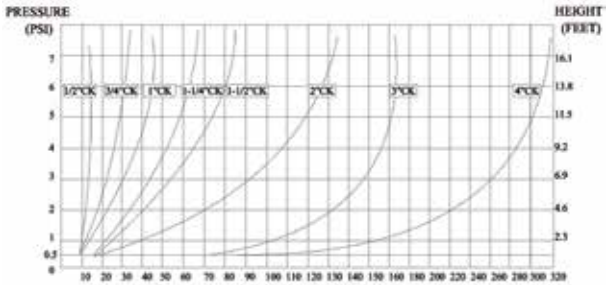


DIMENSIONS (INCHES)

PART#	SIZE	A NPT	B	C	BOX/CASE	
949430	1/2"	1/2"	1.26	2.43	10/100	----
949431	3/4"	3/4"	1.50	2.72	10/80	----
949432	1"	1"	1.77	3.23	10/60	----

More sizes available on a special order basis.





FLOW RATE GALLONS PER MINUTE

	Part	Material
1	Body	S.S 304
2	Stopper	S.S 304
3	O-Ring	Viton
4	Washer	PE
5	Spring	S.S 304
6	Cap	S.S 304
7	Nut	S.S 304

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL IN-LINE CHECK VALVE

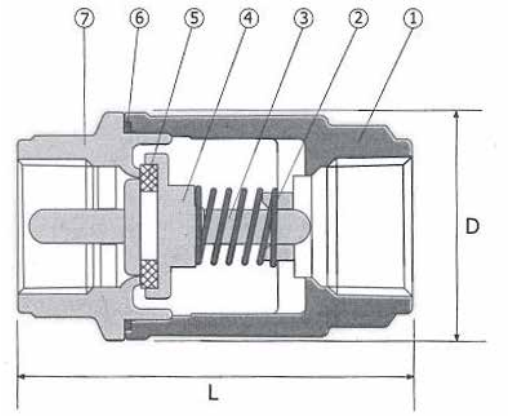
High Capacity, Size 1/4"-2" 800 WOG

- Soft PTFE Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 450°F.
- Corrosion Resistant-Excellent for use on Chemicals.
- ASTM A351-CF8M Investment Casting.
- Connection: FNPT x FNPT.
- 125WSP Saturated Steam.
- ANSI B1.20.1 Threads.
- Dual Guided Stem & Disc.
- Made in Italy



STAINLESS STEEL IN-LINE CHECK

PART#	SIZE	D	L	PSI	LBS	
949401	1/4"	1.15	2.25	800	0.36	----
949402	3/8"	1.16	2.25	800	0.34	----
949403	1/2"	1.35	2.31	800	0.40	----
949404	3/4"	1.81	2.87	800	0.85	----
949405	1"	2.13	3.50	800	1.30	----
949406	1-1/4"	2.46	4.18	800	2.50	----
949407	1-1/2"	2.88	4.93	800	3.40	----
949408	2"	3.56	6.00	800	6.0	----



	Part	Material	PCS
1	BODY	ASTM A351-CF8M	1
2	SPRING	SS316	1
3	CENTER GUIDE	ASTM A351-CF8M	1
4	DISC	ASTM A351-CF8M	1
5	SEAT	PTFE	1
6	GASKET	PTFE	1
7	END CAP	ASTM A351-CF8M	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING CHECK VALVE

- Working Pressure: 1500PSI (PN100)
- Working Temperature: -10 -150°C
- Opening Pressure: 2~3PSI
- Suitable Medium: W.O.G.
- Threaded End: NPT
- Made in China

FEMALE PIPE x FEMALE PIPE



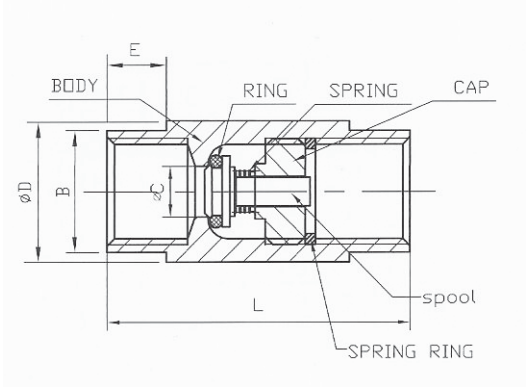
PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	
949451	1/4"	2.165	.217	.748	.699	.394	.19	200	----
949452	3/8"	2.165	.295	.866	.787	.394	.21	160	----
949453	1/2"	2.165	.413	1.063	.945	.472	.31	100	----
949454	3/4"	2.677	.591	1.417	1.26	.472	.71	60	----
949455	1"	3.268	.787	1.693	1.496	.591	1.14	36	----

MALE PIPE x FEMALE PIPE



PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	
949471	1/4"	2.165	.217	.748	.699	.394	.176	200	----
949472	3/8"	2.165	.295	.866	.787	.394	.22	160	----
949473	1/2"	2.165	.413	1.063	.945	.472	.27	100	----
949474	3/4"	2.677	.591	1.417	1.26	.472	.62	65	----
949475	1"	3.268	.787	1.693	1.496	.591	1.05	40	----

FLOWS MALE -> FEMALE



NO	Part	Material	QTY
1	BODY	316	1
2	RING	Rubber	1
3	SPRING	304	1
4	CAP	CF8M	1
5	SPOOL	304/316	1
6	SPRING RING	304	1

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SS Y-SPRING/ BARREL CHECK VALVES

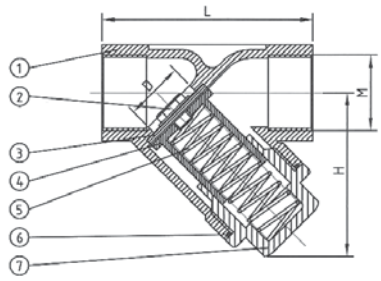
VALVES

Y-SPRING CHECK VALVE

- Working Pressure: 800PSI (PN55)
- Working Temperature: -10 -150°C
- Opening Pressure: 1.5PSI
- Suitable Medium: W.O.G.
- Made in China



PART#	SIZE	L	H	D	LBS/ PC	CASE	
949481	1/4"	2.559	1.661	.472	.44	70	----
949482	3/8"	2.559	1.661	.472	.51	70	----
949483	1/2"	2.559	1.634	.591	.51	100	----
949484	3/4"	3.15	2.067	.787	.93	80	----
949485	1"	3.543	2.657	.984	1.25	40	----
949486	1-1/4"	4.134	2.795	1.26	2.20	30	----
949487	1-1/2"	4.724	3.169	1.575	3.24	24	----
949488	2"	5.512	3.74	1.969	5.21	10	----



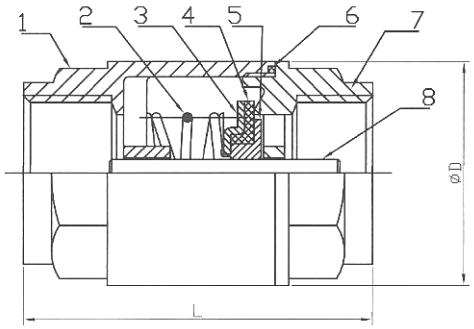
NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	Teflon	1
4	DISC	304	1
5	SPRING	304	1
6	GASKET	Teflon	1
7	CAP	CF8M/ CF8	1

2PC BARREL TYPE SPRING CHECK VALVE

- Working Pressure: 300PSI (PN20)
- Working Temperature: -10 -120°C
- Opening Pressure: 2PSI
- Suitable Medium: W.O.G.
- Threaded end: NPT
- Made in China



PART#	SIZE	L	D	LBS/ PC	CASE	
949441	1/4"	2.00	1.142	.27	100	----
949442	3/8"	2.00	1.142	.24	100	----
949443	1/2"	2.24	1.28	.36	100	----
949444	3/4"	2.44	1.594	.54	60	----
949445	1"	2.95	1.89	.88	30	----
949446	1-1/4"	3.23	2.362	1.39	18	----
949447	1-1/2"	3.46	2.756	1.81	25	----
949448	2"	3.94	3.425	2.86	14	----



NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	NBR	1
4	DISC	304	1
5	SPRING	316/ 304	1
6	GASKET	PTFE	1
7	CAP	CF8M/ CF8	1

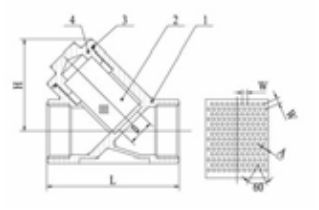
WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MISCELLANEOUS VALVES

VALVES

#316 SS Y STRAINER

- Investment Castings for Body
- Pressure Rating: 800PSI (PN40)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China





• 40 Mesh screen

	Part	Material	QTY
1	BODY	CF8M	1
2	SCREEN	SS316	1
3	JOINT GASKET	PTFE	1
4	BONNET	CF8M	1

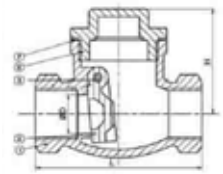
PART #	SIZE	D	L	H	W	ØA	LBS	
949521	1/4"	.38"	2.53	51	1.69	1	0.44	----
949522	3/8"	.48"	2.53	51	1.69	1	0.38	----
949523	1/2"	.59"	2.53	51	1.76	1	0.46	----
949524	3/4"	.79"	3.12	60	2.07	1	0.69	----
949525	1"	.98"	3.57	72	2.67	1	1.27	----
949526	1-1/4"	1.26"	4.17	77	2.9	1	1.74	----
949527	1-1/2"	1.57"	4.71	87	3.23	1	2.38	----
949528	2"	1.96"	5.49	102	3.88	1	3.57	----

316 SS SWING CHECK VALVE

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	PIPE PLUG	CF8	1
4	SCREW	CF8	1
5	SCREW GASKET	PTFE	1
6	CAP	CF8M	1
7	CAP GASKET	PTFE	1



PART #	SIZE	D	L	W	LBS	
949353	1/2"	.59"	2.45	1.66	0.53	----
949354	3/4"	.79"	2.92	1.82	0.73	----
949355	1"	.98"	3.41	2.06	1.2	----
949356	1-1/4"	1.26"	3.93	2.32	1.79	----
949357	1-1/2"	1.57"	4.54	2.54	2.18	----
949358	2"	1.96"	5.3	2.78	3.03	----

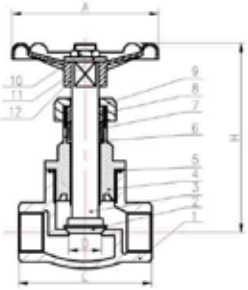
CF8 = 304SS

316 SS GLOBE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	STEM	304SS	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	GASKET	304SS	1
7	PACKING	PTFE	1
8	GASKET	CF8	1
9	GLAND	304SS	1
10	NUT	304SS	1
11	SPRING WASHER	CF8	1
12	HANDLE WHEEL	Steel	1



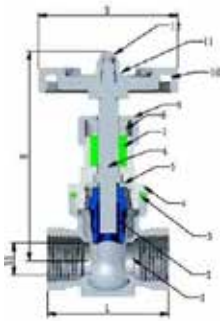
PART #	SIZE	L	LBS	
949303	1/2	2.64	0.89	----
949304	3/4	3.19	1.3	----
949305	1	3.46	1.72	----
949306	1-1/4	3.81	2.33	----
949307	1-1/2	4.25	3.11	----
949308	2	5.1	4.38	----

316 SS GATE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	Part	Material	QTY
1	BODY	CF8M	1
2	DISC	CF8M	1
3	SEAL	CF8M	1
4	CAP	CF8M	1
5	SEAL	PTFE	1
6	STEM	304SS	1
7	SEAL	PTFE	1
8	GLAND	304SS	1
9	NUT	304SS	1
	HANDLE WHEEL	Steel	1



PART #	SIZE	L	D	D1	H	LBS	
949253	1/2	2.07	2.54	0.55	3.37	0.78	----
949254	3/4	2.28	2.89	0.74	4.03	0.99	----
949255	1	2.42	2.89	0.95	4.46	1.25	----
949256	1-1/4	2.79	3.06	1.18	4.86	1.76	----
949257	1-1/2	2.92	3.79	1.49	5.53	2.59	----
949258	2	3.3	4.17	1.85	6.12	3.54	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

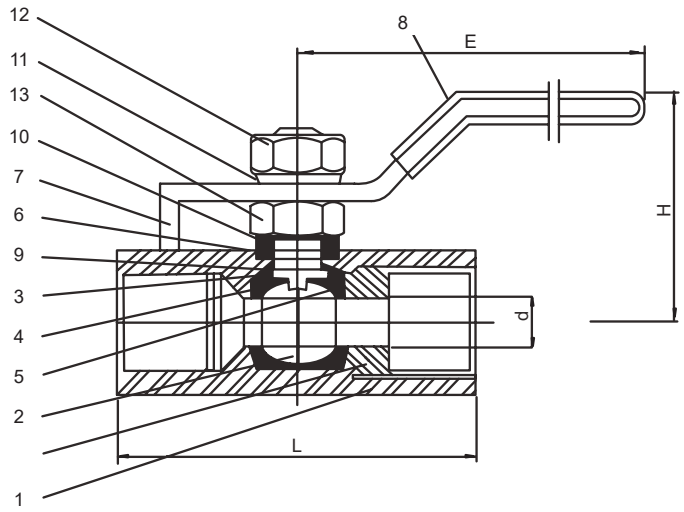
CARBON STEEL BALL VALVES
VALVES

STANDARD PORT CARBON STEEL BALL VALVE

- For chemical and industrial applications.
- Blow-out proof stem design.
- 100% air tested under water, at 100 psi, open and closed positions.
- Made in China
- Generic handles

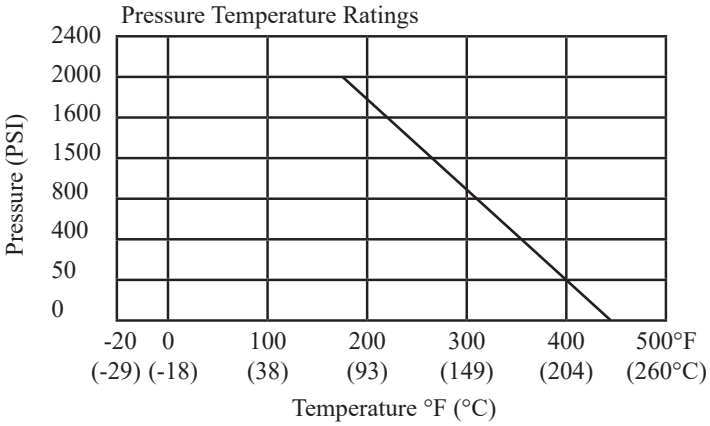
SPECIFICATIONS
- Working Pressure: 1/4" ~ 1" 2000 psi WOG,
  1-1/4" ~ 2" 1500 psi WOG,
- Temperature Range: -60^0 to 450^{0}F
- End types: Threaded
- 1 piece ball valve
- Reinforced PTFE seat





2000 PSI STANDARD PORT

PART #	SIZE	D	H	E	L	WTG	BOX/ CASE	
949121	1/4	.20	1.38	2.95	1.71	0.25	24/96	----
949122	3/8	.28	1.30	3.27	1.87	0.32	100/200	----
949123	1/2	.36	2.36	4.53	2.20	0.67	50/100	----
949124	3/4	.49	2.72	4.53	2.58	1.06	50/100	----
949125	1	.59	2.95	5.00	3.19	1.17	25/50	----
949126	1-1/4	.78	3.07	5.29	3.94	3.15	15/30	----
949127	1-1/2	0.98	3.39	5.29	3.94	2.15	15/30	----
949128	2	1.26	3.86	5.29	4.49	6.21	10/20	----



Item	Parts	Material
1	Body	ASTM A216 WCB
2	Ball	ASTM A351 CF8
3	Stem	304
4	Ball Seat	PTFE
5	Cap Seal	PTFE
6	Packing	PTFE
7	Handle	SS304
8	Handle Sleeve	Vinyl Grip
9	Thrust Washer	PTFE
10	Gland	SS304
11	Washer	SS304
12	Handle Nut	SS304
13	Stem Nut	SS304

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

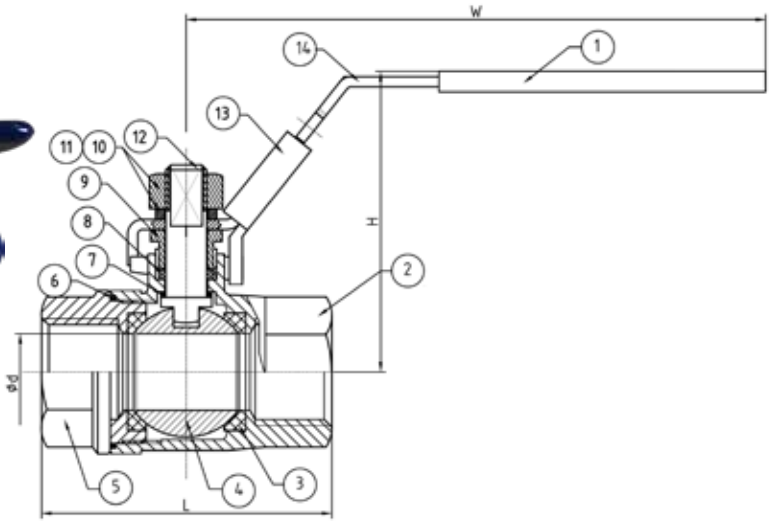
2000 PSI CARBON STEEL 2PC FULL PORT BALL VALVE

• 2 PIECE

SPECIFICATIONS

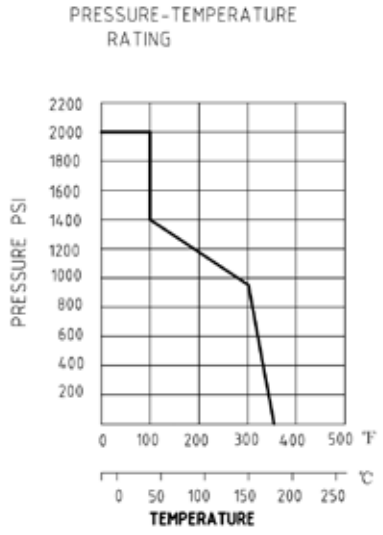
- Working Pressure: 2000 PSI (138 Bar)
- Temperature Range: -10° C-150° C
- Suitable medium: WOG
- Threaded End conforms to ANSI B1.20.1
- Made in China
- Generic handle





2000 PSI FULL PORT

PART #	SIZE	D	L	H	W	WTG	BOX/ CASE	
949111	1/4	0.36	2.13	2.13	4.33	0.59	70	----
949112	3/8	0.50	2.13	2.17	4.33	0.59	70	----
949113	1/2	0.59	2.24	2.28	4.33	0.75	60	----
949114	3/4	0.79	2.76	2.40	4.33	1.17	50	----
949115	1	0.98	3.25	3.03	5.04	1.88	30	----
949116	1-1/4	1.26	3.58	3.19	5.04	2.45	20	----
949117	1-1/2	1.50	4.06	3.54	6.10	4.06	20	----
949118	2	1.97	4.90	4.25	6.10	2.43	7	----



Item	Parts	Material
1	Handle cover	Plastic
2	Body	CF8M
3	Ball seat	PTFE
4	Ball	CF8M
5	Cap	CF8M
6	Joint gasket	PTFE
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland nut	304
10	Spring washer	304
11	Stem nut	304
12	Stem	316
13	Lock device	304
14	Handle	304

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE FULL PORT 2-WAY VALVES

VALVES

FULL PORT Two-Way



BKH

PART #	THREAD	WORKING PRESSURE	
GE214NPT	1/4" NPT	7250 PSI	----
GE238NPT	3/8" NPT	7250 PSI	----
GE212NPT	1/2" NPT	7250 PSI	----
GE234NPT	3/4" NPT	5800 PSI	----
GE21NPT	1" NPT	5075 PSI	----
GE2114TNPT*	1-1/4" NPT	5000 PSI	----
GE2112TNPT*	1-1/2" NPT	5000 PSI	----

PART #	THREAD	WORKING PRESSURE	
GE204SAE	7/16-20 UNF	7250 PSI	----
GE206SAE	9/16-18 UNF	7250 PSI	----
GE208SAE	3/4-16 UNF	7250 PSI	----
GE212SAE	1-1/16-12 UNF	5800 PSI	----
GE216SAE	1-5/16-12 UNF	5000 PSI	----
GB220TSAE+	1-5/8-12 UNF	5000 PSI	----
GB224TSAE+	1-7/8-12 UNF	5000 PSI	----

*** Reduced Port**
+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Viton on request)
Delrin Ball Seats

FULL PORT Three-Way



BK3

PART #	THREAD	WORKING PRESSURE	
GE3L14NPT	1/4" NPT	5880 PSI	----
GE3L38NPT	3/8" NPT	5880 PSI	----
GE3L12NPT	1/2" NPT	5145 PSI	----
GE3L34NPT	3/4" NPT	5145 PSI	----
GE3L1NPT	1" NPT	5145 PSI	----
GE3L114TNPT	1 1/4" NPT	4500 PSI	----
GE3L112TNPT	1 1/2" NPT	4500 PSI	----

PART #	THREAD	WORKING PRESSURE	
GE3L04SAE	7/16-20 UNF	5880 PSI	----
GE3L06SAE	9/16-18 UNF	5880 PSI	----
GE3L08SAE	3/4-16 UNF	5145 PSI	----
GE3L12SAE	1-1/16-12 UNF	5145 PSI	----
GE3L16SAE	1-5/16-12 UNF	5145 PSI	----
GB3L20TSAE+	1-5/8-12 UNF	4500 PSI	----
GB3L24TSAE+	1-7/8-12 UNF	4500 PSI	----

+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Viton on request)
Delrin Ball Seats

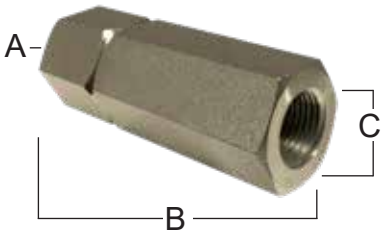
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE CHECK VALVES

VALVES

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 5lb Cracking Pressure

• w/ NPT threads



A (NPT Female both ends)

PART #	A SIZE	B INCHES	C INCH-ES	RATED FLOW GPM	PSI	
100025	1/4 NPT	2.44	.87	6	5,000	----
100035	3/8 NPT	2.87	.95	10	5,000	----
100045	1/2 NPT	3.76	1.26	18	5,000	----
100065	3/4 NPT	4.30	1.50	30	5,000	----
100085	1 NPT	4.74	1.83	36	5,000	----
1000105	1-1/4 NPT	5.56	2.40	50	3,000	----
1000125	1-1/2 NPT	5.56	2.56	60	3,000	----

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 65lb Cracking Pressure



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
1000265	1/4NPT	2.45	.87	6	5,000	----
1000365	3/8NPT	2.91	.94	10	5,000	----
1000465	1/2NPT	3.74	1.18	18	5,000	----
1000665	3/4NPT	4.29	1.26	30	5,000	----
1000865	1NPT	5.00	1.81	36	5,000	----
10001065	1-1/4NPT	5.20	2.41	50	3,000	----
10001265	1-1/2NPT	5.20	2.56	60	3,000	----

CHECK VALVES - 5lb Cracking Pressure

• w/ SAE threads



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
100145	7/16-20 SAE	2.56	.87	6	5,000	----
100165	9/16-18 SAE	2.91	.94	10	5,000	----
100185	3/4-16 SAE	3.74	1.18	18	5,000	----
1001125	1-1/6-12 SAE	4.29	1.50	30	3,000	----
1001165	1-5/16-12 SAE	5.00	1.81	36	3,000	----
1001205	1-5/8-12 SAE	5.20	2.41	50	3,000	----
1001245	1-7/8-12 SAE	5.20	2.56	60	3,000	----

CHECK VALVES - 65lb Cracking Pressure

• w/ SAE threads



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	
1001465	7/16-20 SAE	2.56	.87	6	5,000	----
1001665	9/16-18 SAE	2.91	.94	10	5,000	----
1001865	3/4-16 SAE	3.74	1.18	18	5,000	----
10011265	1-1/6-12 SAE	4.29	1.50	30	3,000	----
10011665	1-5/16-12 SAE	5.00	1.81	36	3,000	----
10012065	1-5/8-12 SAE	5.20	2.41	50	3,000	----
10012465	1-7/8-12 SAE	5.20	2.56	60	3,000	----

Rated Pressure: Sizes 2 thru 8 - 5000 psi / Sizes 10 thru 24 - 3000 psi

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

PVC VALVES
VALVES

WHITE PVC BALL VALVES

- Quarter turn
- Solvent ends comply with ASTM D2466
- Designed for use in residential, commercial & industrial system as well as waste water, chemical, agricultural applications, marine, food processing, swimming pools.
- Corrosion resistant
- EPDM seal
- FULL PORT
- EPDM O-ring
- Fits both Sch. 40 & 80 pipe
- Rated for 150 PSI at 73°F
- Threaded ends comply with ANSI B1.20.1



MOLDED IN PLACE - WHITE PIPE THREADS

PART#	SIZE	CASE	
940284	1/2"	100	----
940285	3/4"	100	----
940286	1"	100	----
940287	1-1/4"	100	----
940288	1-1/2"	48	----
940289	2"	24	----
940291	3"	12	----
940292	4"	6	----



WHITE SOCKET - SLIP X SLIP

PART #	SIZE	CASE	
940294	1/2"	100	----
940295	3/4"	100	----
940296	1"	100	----
940297	1-1/4"	100	----
940298	1-1/2"	48	----
940299	2"	24	----
940300	2-1/2"	12	----
940301	3"	12	----
940302	4"	6	----

I CAN'T CHANGE THE DIRECTION OF THE WIND, BUT I CAN ADJUST MY SAILS TO ALWAYS REACH MY DESTINATION.

- JIMMY DEAN

GREY PVC BALL VALVES

FEATURES

- Sizes range from 1/2" to 4"
- Excellent flow characteristics
- Leak-tight shut-off
- EPPM O-Ring
- SCH 80
- Test pressure: 225 psi @ 73°F
- Working Pressure: 150 psi @ 73°F



FIP X FIP THREADED BALL VALVE

PART #	SIZE	CASE	
899000	1/2"	100	----
899001	3/4"	100	----
899002	1"	100	----
899003	1-1/4"	100	----
899004	1-1/2"	48	----
899005	2"	24	----



SLIP X SLIP BALL VALVE

PART #	SIZE	CASE	
899050	1/2"	100	----
899051	3/4"	100	----
899052	1"	100	----
899053	1-1/4"	100	----
899054	1-1/2"	48	----
899055	2"	24	----



CPVC BALL VALVE

PART #	SIZE	
940281	1/2"	----
940282	3/4"	----

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

INLINE PLASTIC SPRING CHECK VALVE

Socket x Socket

- 200 PSI working pressure @ 77°F .5 PSI to open.



PART#	SIZE	
940325	1/2"	----
940326	3/4"	----
940327	1"	----
940328	1-1/4"	----
940329	1-1/2"	----
940330	2"	----

INLINE PLASTIC SPRING CHECK VALVE FEMALE THREADED ENDS

- 200 PSI working pressure @ 77°F .5 PSI to open.



PART#	SIZE	
940331	1/2"	----
940332	3/4"	----
940333	1"	----
940334	1-1/4"	----
940335	1-1/2"	----
940336	2"	----

PLASTIC DRUM FAUCETS

- Pipe threads to ANSI B1.20.1
- Hose threads to ANSI B

The FLO-RITE faucet has been engineered to meet the demand for greater chemical resistance, using linear polyethylene for the stem.



"FLO-RITE" DRUM FAUCET

PART #	SIZE	
46277	3/4"	----

DRUM & BARREL FAUCET VALVE

- Die cast body w/ nylon seat and steel spring.
- For use with all petroleum products except trichlorethylene.

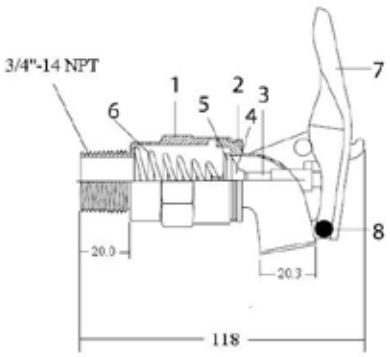


G261N

Not suitable for potable water

SELF-CLOSING DRUM & BARREL FAUCET

PART #	SIZE	
46270	3/4"	----



Part #	Part Name	Material
1	Body	Zinc
2	Bonnet	Zinc
3	Stem	Steel
4	Disc	Plastic
5	Seal	Rubber
6	Spring	Zinc plated steel
7	Handle	Aluminum
8	Rivet	Aluminum

WARNING: This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON VALVES AND ACCESSORIES

WAFER STYLE - LEVER OPERATED



NICKLE PLATED DUCTILE IRON DISC & SS DISC

WAFER STYLE GEAR OPERATED



NICKLE PLATED DUCTILE IRON DISC & SS DISC

BUTTERFLY ACCESSORIES



WAFER STYLE DOUBLE DOOR CHECK VALVE



AWWA C508 OUTSIDE LEVER



AND WEIGHT CHECK VALVES

UL/FM FLANGED SWING CHECK VALVE



SWING CHECK FLANGED

AWWA C515-15 GATE VALVES



FLANGED OS & Y RESILIENT WEDGE GATE VALVE



NRS RESILENT WEDGE GATE VALVES, FLANGED, MECHANICAL JOINT & FLANGE BY MECHANICAL JOINT

DUCTILE IRON THREADED FLAT FACED COMPANAION FLANGES



LF WATER METER FLANGES, FLANGE KITS AND LF METER COUPLINGS



LEVER - WAFER

Small in size and light in weight, easy to install. It can be mounted wherever needed, quick 90° on-off operation. Disc has two-way bearing, perfect seal without leakage under the pressure test. Flow curve tending to straight-line. Strong wash and brush resistence and can fit to bad working condition. Center plate structure, small torque of open and close. Disc & stem are fastened by pin, more stable.



STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS	
SIZE	4-Φd2
1.5"-3"	4-0.276
4"-6"	4-0.39
8"-14"	4-0.47

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9650L2	2"	200	7.3	----
9650L2.5	2-1/2"	190	8.4	----
9650L3	3"	180	9.8	----
9650L4	4"	150	12.1	----
9650L5	5"	110	16.5	----
9650L6	6"	90	16.9	----
9650L8	8"	50	30.3	----
9650L10	10"	35	44.5	----
9650L12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9650L2SE	2"	----
9650L3SE	3"	----
9650L4SE	4"	----
9650L5SE	5"	----
9650L6SE	6"	----
9650L8SE	8"	----
9650L10SE	10"	----
9650L12SE	12"	----

GEAR - WAFER





STANDARD:
1.DESIGN CODE :AP1609 Class A
2.FACE TO FACE : AP1609
3.END STANDARD:ANSI B16.5 125LB/150LB
4.INSPECTION & TEST:API 598

TOP FLANGE DIMENSIONS

SIZE	ISO5211	ΦK	ΦE	4-ΦD2
1.5"-3"	F05	2.56	1.97	4-0.276
4"-6"	F07	3.54	2.76	4-0.39
8"-14"	F10	4.92	4.02	4-0.47

PART#	WAFER/ DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9650G2	2"	200	7.3	----
9650G2.5	2-1/2"	190	8.4	----
9650G3	3"	180	9.8	----
9650G4	4"	150	12.1	----
9650G6	6"	90	16.9	
9650G8	8"	50	30.3	----
9650G10	10"	35	44.5	----
9650G12	12"	24	51.6	----

WAFER/ SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9650G2SE	2"	----
9650G2.5SE	2-1/2"	----
9650G3SE	3"	----
9650G4SE	4"	----
9650G6SE	6"	----
9650G8SE	8"	----
9650G10SE	10"	----
9650G12SE	12"	----

BUTTERFLY VALVES - LUG
VALVES

LEVER - LUG

Small in size and light in weight, easy to install, can be mounted wherever needed. Lug type butterfly valve can be used at the end of the pipeline. Lug type butterfly valve has threaded metal inserts installed in the valve's bolt holes. Inserts are threaded on both ends, which allows this lug style valve to be installed into a system using two sets of bolts and no nuts for each hole. Valve is installed between two flanges using a separate set of bolts for each side of the flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.



PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9660L2	2"	200	7.3	----
9660L2.5	2-1/2"	190	8.4	----
9660L3	3"	180	9.8	----
9660L4	4"	150	12.1	----
9660L5	5"	110	16.5	----
9660L6	6"	90	16.9	----
9660L8	8"	50	30.3	----
9660L10	10"	35	44.5	----
9660L12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9660L2SE	2"	----
9660L3SE	3"	----
9660L4SE	4"	----
9660L5SE	5"	----
9660L6SE	6"	----
9660L8SE	8"	----
9660L10SE	10"	----
9660L12SE	12"	----

GEAR - LUG



PART#	DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9660G2	2"	200	7.3	----
9660G2.5	2-1/2"	190	8.4	----
9660G3	3"	180	9.8	----
9660G4	4"	150	12.1	----
9660G6	6"	90	16.9	----
9660G8	8"	50	30.3	----
9660G10	10"	35	44.5	----
9660G12	12"	24	51.6	----

SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9660G2SE	2"	----
9660G2.5SE	2-1/2"	----
9660G3SE	3"	----
9660G4SE	4"	----
9660G6SE	6"	----
9660G8SE	8"	----
9660G10SE	10"	----
9660G12SE	12"	----

STEM EXTENSIONS



- FOR BOLTS AND NUTS
- BLACK COLOR

PART#	FOR VALVE SIZES ""	LENGTH	
9650EX2324	2-3	24 LONG	----
9650EX2336	2-3	36 LONG	----
9650EX2348	2-3	48 LONG	----
9650EX2360	2-3	60 LONG	----
9650EX2372	2-3	72 LONG	----
9650EX4624	4-6	24 LONG	----
9650EX4636	4-6	36 LONG	----
9650EX4648	4-6	48 LONG	----
9650EX4660	4-6	60 LONG	----
9650EX4672	4-6	72 LONG	----
9650EX1224	8-12	24 LONG	----
9650EX1236	8-12	36 LONG	----
9650EX1248	8-12	48 LONG	----
9650EX1260	8-12	60 LONG	----
9650EX1272	8-12	72 LONG	----

LEVER REPLACEMENT



PART#	REPLACEMENT LEVER HANDLE FOR	
9650L23	2-3 9650BFV	----
9650L46	4-6 9650 BFV	----
9650L812	8-10 9650 B	----
9650L120	12 9650 BFV	----

GEAR WHEEL HANDLE



PART#	REPLACEMENT WHEEL HANDLE FOR	
9650WH23	2-3" 9650 BFV	----
9650WH46	4-6" 9650 BFV	----
9650WH812	8-12" BFV	----

ROLL PIN



PART#	REPLACEMENT ROLL PIN FOR	
9650RP23	2-3 9650 BFV	----
9650RP46	4-6 9650 BFV	----
9650RP12	8-12 9650 BFV	----

INDEX PLATE



PART#	REPLACEMENT INDEX PLATE	
9650IP23	2-3" 9650BFV	----
9650IP46	4-6" 9650BFV	----
9650IP812	8-12" 9650 B	----

GEAR REPLACEMENT



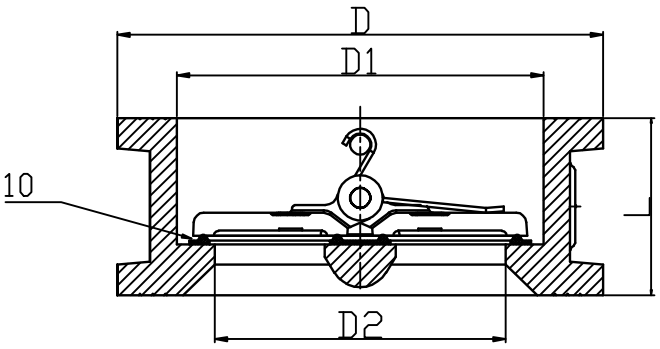
PART#	REPLACEMENT GEAR OPERATOR	
9650G23	2-3 9650 BFV	----
9650G46	4-6 9650 BFV	----
9650G812	8-10 9650BFV	----
9650G120	12 - 9650BFV	----

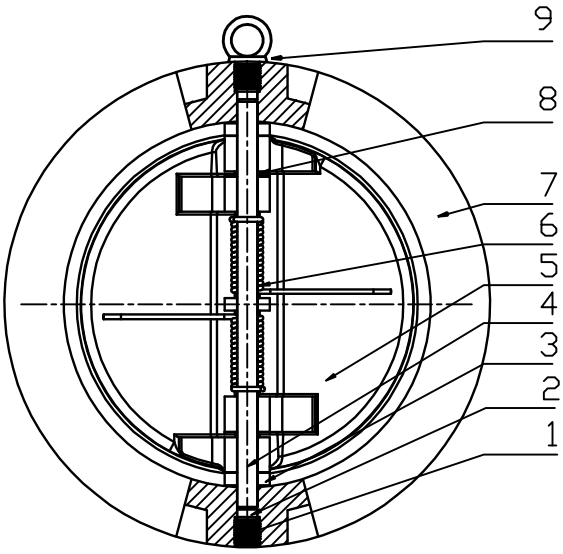
DUCTILE IRON CHECK VALVES

VALVES

DOUBLE DOOR WAFER CHECK VALVE







Part	Part	MATERIAL
1	Countersunk Hex Head Screws	Carbon Steel ASTM A325
2	Stal Ring	EPDM
3	Gasket	PTFE
4	Shaft	Stainless Steal SS420
5	Disc	Aluminum Brance C954
6	Spring	Stainless Steal SS304
7	Body	Ductile Lron ASTM 65-45-12

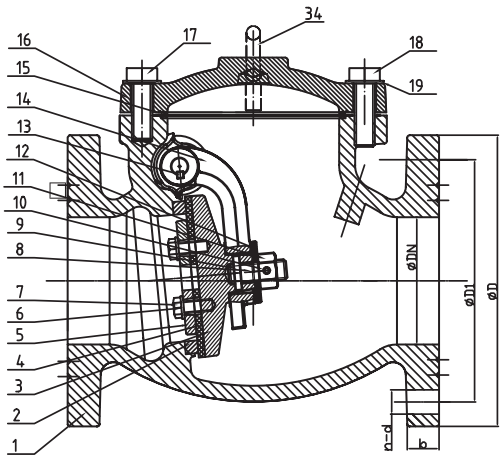
MAIN DIMENSIONS					
DN		Dimensions (mm)			
inch	mm	L	D	D1	D2
2	50	54	102	64	46
21/2'	65	54	121	78	60
3	80	57	134	94	70
4	100	64	162	117	84
5	125	70	192	145	115
6	150	76	218	170	134
8	200	95	273	224	184
10	250	108	335	265	220
12	300	143	407	310	260
14	350	184	442	360	302
16	400	191	511	410	350

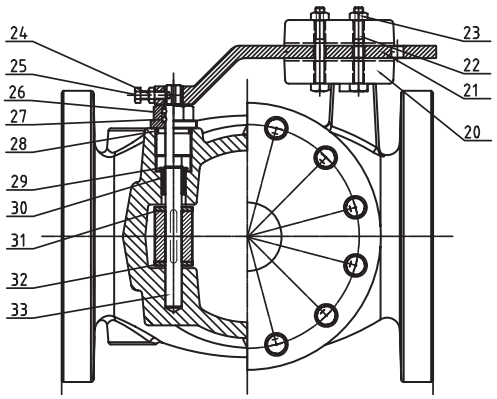
PART#	SIZE	CASE	WEIGHT	
963002	2	50	4	----
963025	2-1/2	40	5	----
963003	3	20	8	----
963004	4	20	13	----
963005	5	20	16	----
963006	6	10	20	----
963008	8	10	38	----
963010	10	10	38	----
963012	12	5	92	----
963014	14	4	121	----
963016	16	4	165	----

CHECK VALVE W/OUTSIDE L/W

AWWA C508 CHECK VALVE W/OUTSIDE L/W







Part	Part	MATERIAL
1	Valve Body	Ductile iron 65-45-12
2	Seat	ASTM B62 C83600
3	Disc	Ductile iron 65-45-12
4	Disc Seat Ring	NBR
5	Retainer Washer	Ductile iron 65-45-12
6	Washer	AISI 304
7	Bolt	AISI 304
8	Stud	ASTM B62 C83600
9	Roll Pin	AISI 304
10	Roll Pin	AISI 304
11	Nut	ASTM B62 C83600
12	Washer	ASTM B62 C83600
13	Flat Key	AISI 304
14	Clapper Arm	Ductile iron 65-45-12
15	O-Ring	NBR
16	Bonnet	Ductile iron 65-45-12
17	Bolt	AISI 316
18	Bolt	AISI 316
19	Washer	AISI 316
20	Weight	Ductite iron,65-45-12
21	Arm	Cast steel WCB
22	Bolt	AISI 316
23	Nut	AISI 316
24	Nut	AISI 316
25	Bolt	AISI 316
26	Seat Nut	ASTM B62 C83600
27	O-Ring	NBR
28	Gasket	PTFE
29	Circlip	Carbon steel
30	Shaft sleeve gland	ASTM B62 CB3600

MAIN DIMENSIONS (mm)

inch	DN	L	D	D1	b	n-d	H
3"	80	241	200	152.5	19	4-19.1	173
4"	100	292	229	190.5	24	8-19.1	175.5
6"	150	356	285	241.5	25.5	8-22.2	237.5
8"	200	495	343	298.5	28.5	8-22.2	272.5
10"	250	622	406	362	30.5	12-25.4	326
12"	300	698	483	432	32	12-25.4	358



UL/FM FLANGED SWING CHECK VALVE

PART#	SIZE	CASE	WEIGHT	
96203LW	3	16	57	----
96204LW	4	12	84	----
96206LW	6	6	156	----
96208LW	8	4	294	----
962010LW	10	2	466	----
962012LW	12	2	627	----

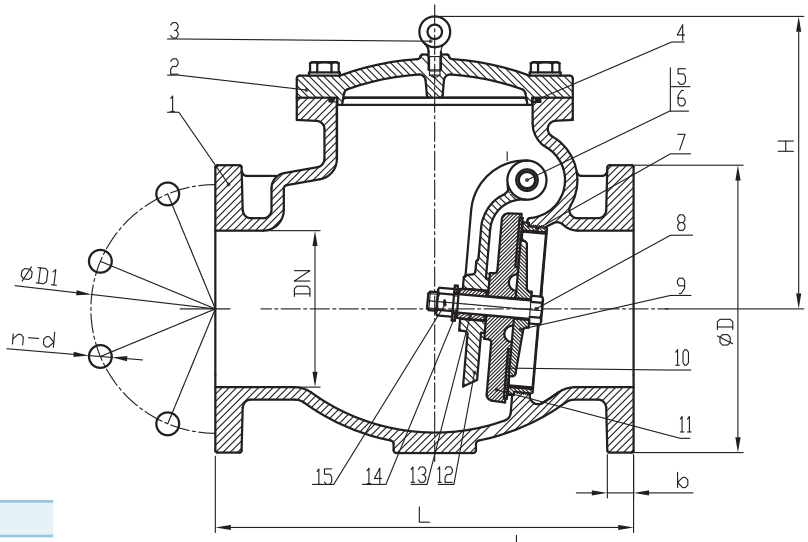
PART#	SIZE	CASE	WEIGHT	
96203UL	3	36	50	----
96204UL	4	36	77	----
96206UL	6	14	140	----
96208UL	8	4	266	----
962010UL	10	1	398	----
962012UL	12	1	533	----

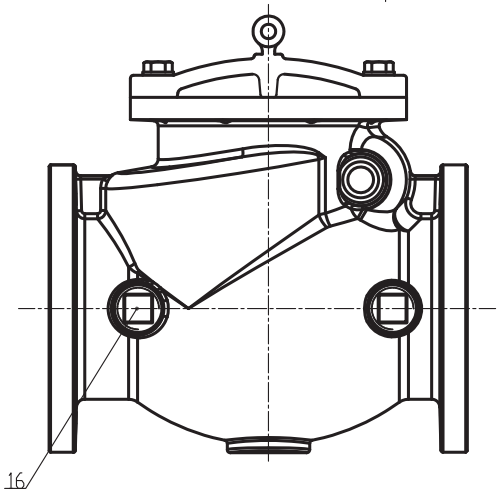
DUCTILE IRON CHECK VALVES

VALVES

AWWA C508 SWING CHECK VALVE FLANGED







Part	Part	MATERIAL
1	Valve Body	Ductile Iron 65-45-12
2	Bonnet	Ductile Iron 65-45-12
3	Sling Ring	Carbon Steel Zinc Plated
4	O Ring	NBR
5	Hinge Pin	Stainless Steel 304
6	Hinge bushing	Brass ASTM B36
7	Seat Ring	Bronze ASTM B62
8	Disc Seat Bolts	Stainless Steel 304
9	Retainer Washer	Bronze ASTM B62
10	Disc Seat Ring	EPDM
11	Disc	Ductile Iron 65-45-12
12	Ctapper Arm	Ductile Iron 65-45-12
13	Stud Bushing	Bronze ASTM B36
14	O Ring	NBR
15	Nuts	Stainless Steel 304
16	Plug	Tin bronze

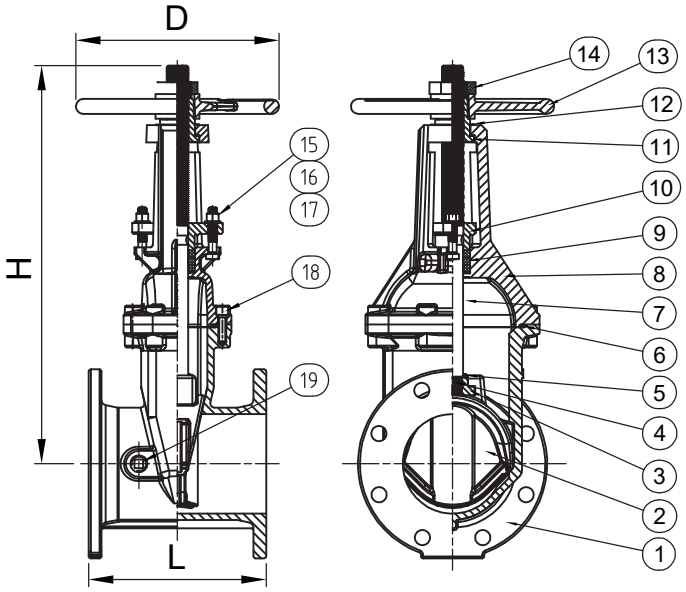
MAIN DIMENSIONS

DN		PSI	Dimensions (mm)					
inch	mm		L	D	D1	b	n-d	H
3"	80	300	278	191	152.5	19	4-19.1	160
4"	100	300	330	229	190.5	24	8-19.1	218
6"	150	300	406	279	241.5	25.5	8-22.2	290
8"	200	300	495	343	298.5	28.5	8-22.2	330
10"	250	300	622	406	362	30.5	12-25.4	350
12"	300	300	660	483	432	32	12-25.4	376

PART#	SIZE	CASE	WEIGHT	
962003	3	16	57	----
962004	4	12	84	----
962006	6	6	156	----
962008	8	4	294	----
962010	10	2	466	----
962012	12	2	627	----

OS&Y RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI





PART#	SIZE	CASE	WEIGHT	
9610F25	2-1/2"	25	46.2	----
9610F3	3"	16	62.7	----
9610F4	4"	16	74.8	----
9610F6	6"	9	103.9	----
9610F8	8"	6	190.9	----
9610F10	10"	2	291.8	----
9610F12	12"	2	409.8	----

NO TAP

PART#	SIZE	CASE	WEIGHT	
9610NYCF25	2-1/2"	25	46.2	----
9610NYCF3	3"	32	62.7	----
9610NYCF4	4"	64	74.8	----
9610NYCF6	6"	54	103.9	----
9610NYCF8	8"	36	190.9	----
9610NYCF10	10"	12	291.8	----
9610NYCF12	12"	12	409.8	----

COMPLIES WITH NEW YORK AND CHICAGO REQUIREMENTS.

	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Stainless Steel	A276 Type 304SS
4	Pin	Stainless Steel	A276 Type 420SS
5	O-Ring	Rubber	D2000 NBR
6	Gasket	Rubber	D2000 NBR
7	Stem	Stainless Steel	A276 Type 304SS
8	Bonnet	Ductile Iron	A536 65-45-12
9	Packing	Graphite	
10	Gland	Ductile Iron	A536 65-45-12
11	Yoke Nut	Bronze	B148 C95200
12	Washer	Brass	
13	Handwheel	Ductile Iron	A536 65-45-12
14	Handwheel Nut	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Nuts	Stainless Steel	A276 Type 316SS
17	Washers	Stainless Steel	A276 Type 304SS

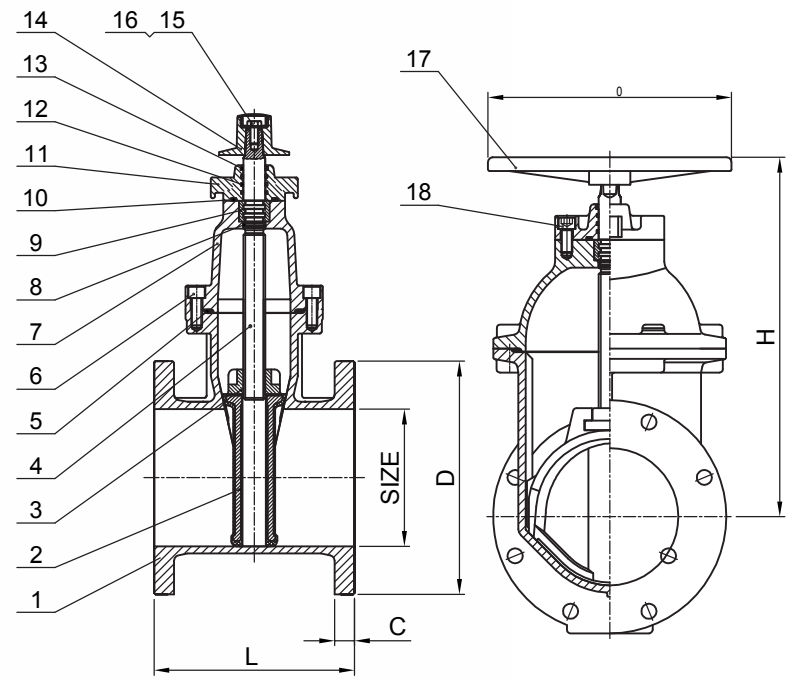
MAIN DIMENSIONS

Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8"	9"	10-1/2"	11-1/2"	13"	14"
H (Open)	16-5/8"	18-7/8"	21-5/8"	29-1/8"	36-5/8"	44-1/2"	52"
H (Close)	13-3/4"	15-3/4"	17-3/4"	23-1/4"	28-3/4"	34-3/4"	40-1/6"
D	7-1/4"	10"	10"	12"	14"	17-1/2"	17-1/2"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FLANGE ENDS, 300PSI





PART#	SIZE	CASE	WEIGHT	
9600FL25	2-1/2"	25	37.6	----
9600FL3	3"	16	54.2	----
9600FL4	4"	16	65.5	----
9600FL6	6"	9	107.5	----
9600FL8	8"	6	181.9	----
9600FL10	10"	2	297.4	----
9600FL12	12"	2	431.4	----

CHANGE YOUR THOUGHTS AND YOU CHANGE YOUR WORLD.

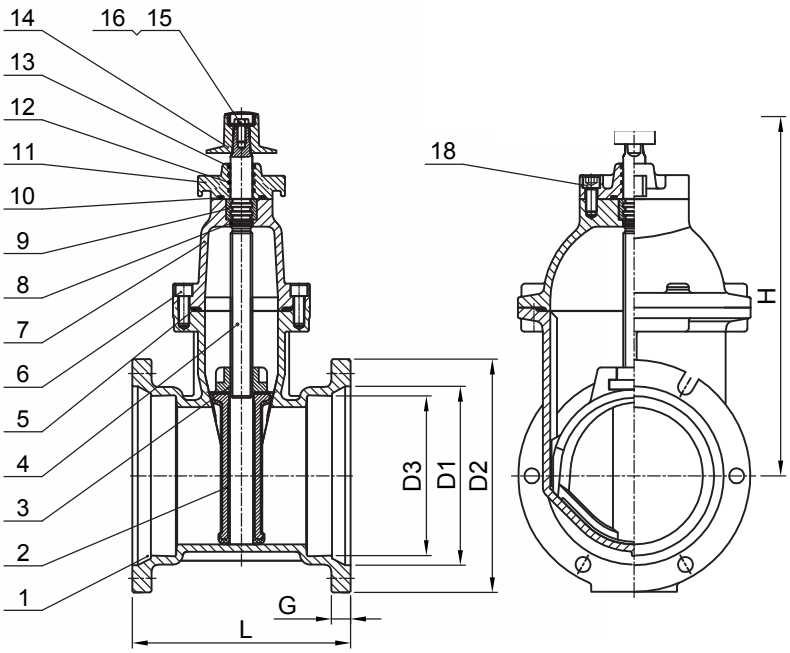
~ NORMAN VINCENT PEALE

Item	Descript.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsu-lated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS							
Size	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8.0"	9.0"	10-1/2"	11-1/2"	13.0"	14.0"

AWWA C515-15 NRS RESILIENT SEATED GATE VALVE
MJ × MJ ENDS, 300PSI





PART#	SIZE	WEIGHT	CASE	
9600MJ3	3"	54.2	16	----
9600MJ4	4"	65.5	16	----
9600MJ6	6"	107.5	9	----
9600MJ8	8"	181.9	6	----
9600MJ10	10"	297.4	2	----
9600MJ12	12"	431.4	2	----

*STANDARD CONFIG IS OP NUT ONLY

If you always put limit on everything you do, physical or anything else. It will spread into your work and into your life. There are no limits. There are only plateaus, and you must not stay there, you must go beyond them.

- Bruce Lee

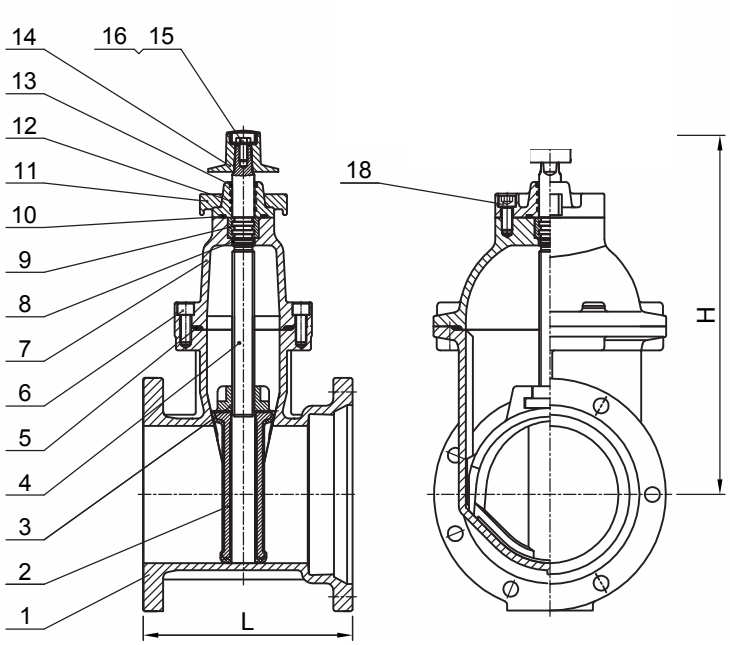
Item	Descrip.	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsu-lated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS						
Size	3"	4"	6"	8"	10"	12"
L	11.5"	12.5"	14.8"	15.0"	13.0"	14.0"
H	16.4"	20.7"	24.5"	28.0"	24.5"	28.0"

DUCTILE IRON GATE VALVES
VALVES

NRS RESILIENT SEATED GATE VALVE
FL × MJ ENDS, 300PSI





PART#	SIZE	WEIGHT	CASE	
9600FJ3	3"	54.3	16	----
9600FJ4	4"	65.5	16	----
9600FJ6	6"	107.5	9	----
9600FJ8	8"	181.9	6	----
9600FJ10	10"	297.4	2	----
9600FJ12	12"	431.4	2	----

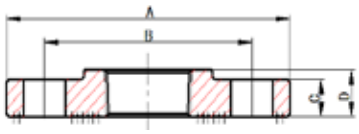
*STANDARD CONFIG IS OP NUT ONLY

Item	Description	Material	ASTM Spec.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR

MAIN DIMENSIONS

Size	3"	4"	6"	8"	10"	12"	10"	12"
L	8.8"	9.5"	11.0"	12.0"	14.0"	14.5"	13"	14"
H	11.0"	11.8"	16.4"	20.7"	24.5"	28.0"	44-1/2"	52"
D	10.0"	10.0"	12.0"	14.0"	16.0"	16.0"	34-3/4"	40-1/6"

DUCTILE IRON THREADED COMPANION FLANGES





*DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
*COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
*HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
*APPLICATION: WATERWORKS, PUMP, IRRIGATION

BLACK

PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108062	1 150	1"	4.25	3.12	0.44	0.75	ϕ0.625	4	0.8347	----
108063	1 1/4 150	1-1/4"	4.62	3.5	0.5	0.81	ϕ0.625	4	1.0797	----
108064	1 1/2 150	1-1/2"	5	3.88	0.56	0.88	ϕ0.625	4	1.3217	----
108065	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	----
108066	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	----
108067	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	----
108069	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	----
108071	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	----
108072	8 150	8"	13.5	11.75	1.12	1.75	ϕ0.875	8	13.0201	----
108073	10 150	10"	16	14.25	1.19	1.94	ϕ1	12	22.854	----
108074	12 150	12"	19	17	1.25	2.19	ϕ1	12	26.5451	----

GALVANIZED

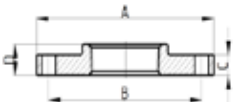
108025	2 150	2"	6	4.75	0.62	1	ϕ0.75	4	2.1457	----
108026	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	ϕ0.75	4	3.4182	----
108027	3 150	3"	7.5	6	0.75	1.19	ϕ0.75	4	3.9051	----
108028	4 150	4"	9	7.5	0.94	1.31	ϕ0.75	8	5.5254	----
108029	6 150	6"	11	9.5	1	1.56	ϕ0.875	8	7.5328	----

BLACK AND GALVANIZED COMPANION FLANGES

VALVES

THREADED COMPANION FLANGE CLASS 125 PATTERN (BLACK & GALVANIZED)

* DIMENSIONS, FACED AND DRILLED IN ACCORDANCE WITH ASME B16.42/AWWA C110
* COATING: AVAILABLE IN BLACK ELECTROPHORETIC COATING AND HOT DIP GALVANIZED
* HOT-DIPPED GALVANIZED CONFORM TO ASTM A153; COMPANION FLANGE THREADS CONFORM TO ASME B1.20.1
* APPLICATION: WATERWORKS, PUMP, IRRIGATION
* 150PSI





BLACK

PART #	DESCRIPTION (DI FLANGE)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108075	2 1/2X7 1/2 (Pipe Size 2-1/2 x 3)	3" x 2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.3827	----
108076	1 1/2X9 (Pipe Size 1-1/2 x 4)	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	----
108077	2 X9 (Pipe Size 2 x 4)	4" x 1-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.8352	----
108088	2 1/2X9 (Pipe Size 2-1/2 x 4)	4" x 2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.4168	----
108089	3 X9 (Pipe Size 3 x 4)	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	----
108090	2X10 (Pipe Size 2 x 5)	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	----
108091	1 1/2 X11 (Pipe Size 1 1/2 x 6)	5" x 4"	10.00	8.50	0.94	1.44	ϕ0.875	8	6.8761	----
108094	2 1/2X11 (Pipe Size 2-1/2 x 6)	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	----
108095	4 X11 (Pipe Size 4 x 6)	6" x 3"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.1831	----
108092	5 X11 (Pipe Size 5 x 6)	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	----
108096	5 X13 1/2 (Pipe Size 5 x 8)	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	----
108097	2 X16 R (Pipe Size 2 x 10)	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	----
108098	6 X16 150PSI R (Pipe Size 6 x 10)	8" x 2"	16.00	14.25	1.19	1.94	ϕ1	12	26.54	----

GALVANIZED

108031		2-1/2" x 2"								
108032		3" x 2"								
108033	1 1/2X9 (Pipe Size 1-1/2 x 4)	3" x 2-1/2"	7.50	6.00	0.75	1.19	ϕ0.75	4	4.2013	----
108034		4" x 2"								
108035	3 X9 (Pipe Size 3 x 4)	4" x 2-1/2"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.3343	----
108036	2X10 (Pipe Size 2 x 5)	4" x 3"	9.00	7.50	0.94	1.31	ϕ0.75	8	6.081	----
108038	2 1/2X11 (Pipe Size 2-1/2 x 6)	6" x 2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.6349	----
108039	3 X11 (Pipe Size 3 x 6)	6" x 2-1/2"	11.00	9.50	1.00	1.56	ϕ0.875	8	10.5386	----
108037	5 X11 (Pipe Size 5 x 6)	6" x 4"	11.00	9.50	1.00	1.56	ϕ0.875	8	9.4563	----
108040	5 X13 1/2 (Pipe Size 5 x 8)	8" x 4"	13.50	11.75	1.12	1.75	ϕ0.875	8	17.1296	----
108041	2 X16 R (Pipe Size 2 x 10)	8" x 6"	13.50	11.75	1.12	1.75	ϕ0.875	8	15.2184	

LEAD FREE OVAL WATER METER FLANGE OVAL



PART#	SIZE	CASE	
970207	1-1/2"	32	----
970208	2"	48	----

LEAD FREE OVAL WATER METER KIT

W/ BOLT & NUT STAINLESS STEEL



NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	4	N
2	FLANGE	BRASS LEAD FREE	2	Y
3	PACKING	RUBBER	2	Y

PART#	SIZE	CASE	
970227	1-1/2"	32	----
970228	2"	48	----

LEAD FREE OVAL METER FLANGE KIT

W/ BOLT & NUT STAINLESS STEEL (NO LEAD)



NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	2	N
2	FLANGE	BRASS LEAD FREE	1	Y
3	PACKING	RUBBER	1	Y
4	NUT	SS 304	2	N

PART#	SIZE	CASE	
970217	1-1/2"	12	----
970218	2"	10	----

LEAD FREE BRASS METER COUPLING



PART#	SIZE	CASE	
970253	1/2"	100	----
970254	3/4"	100	----
970255	1"	80	----
970257	1-1/2"	24	----
970258	2"	24	----

NIPPLES & FITTINGS



BRASS & BRONZE..... 240-269

Brass Nipples - Sch 40..... 242-247
C/P Brass Nipples..... 248
Bronze Fittings..... 249-258
Lead Free Bronze Fittings..... 249-258
C/P Fittings..... 259-260
USA LF Bronze Fittings..... 261-265
Extra Heavy USA LF Bronze Fittings 265-266
Bronze Cleanout Plugs..... 267
Bronze Drop Ear Elbows..... 267
Bronze Barbs for PL. Pipe..... 268
Steel Barbs for PL. Pipe..... 268
Lead Free Bronze Barbs for PL. Pipe..... 269
Stainless Steel Barbs for PL. Pipe..... 269
Stainless Steel Well Couplings..... 269
Stainless Steel Merchant Couplings..... 269
STAINLESS STEEL..... 270-283
Stainless Nipples..... 271-275
150# Cast SS Fittings..... 276-283

BLACK & GALVANIZED..... 284-322

Sch. 40 Welded Steel Nipples..... 284-292
Sch. 80 Seamless Steel nipple..... 293-298
Sch. XXS Seamless Steel Nipple..... 299
Groove Nipples..... 300-301
Merchant Couplings..... 302
API Line Couplings..... 303
Malleable Fittings..... 304-313
Steel Fittings..... 314-315
300# Malleable..... 316-317
Bull Plugs and Swages..... 318-319
Forged Steel Fanges..... 320-321
Hammer Visions..... 322
Copper Fittings..... 323-329

BRASS NIPPLES



LEAD FREE

We hereby certify that to the best of our knowledge and belief the CDA 230 alloy seamless Red Brass Pipe from which our nipples are produced meet the requirements of ASTM Specifications B43 and is free of mercury contamination. The chemical analysis is 85% copper, 15% Zinc and conforms to federal Specifications WWN-351. Our brass nipples meet ANSI/ASTM B687-96 and MS51846 for standard brass nipples, and MS51872 for extra heavy brass nipples.

Threads: Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-thread standard for Federal Services Handbook H-58. ANSI B1.20.1

This product is certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above.

- ASTM B43
- ANSI B1.20.1, WW-N-351
- ANSI/ ASTM B687-96
- NSF-61 Approved
- MS51846 STD Brass Nipples
- RoHS compliant

STANDARD RED BRASS 85%
PIPE WITH THREADED ENDS SPECIFICATIONS:

Pipe Size in Inches	Dimension in Inches		
	O.D.	I.D.	Wall Thickness
1/8"	.405	.281	.062
1/4"	.540	.376	.082
3/8"	.675	.495	.090
1/2"	.840	.626	.107
3/4"	1.050	.822	.114
1"	1.315	1.063	.126
1-1/4"	1.660	1.368	.146
1-1/2"	1.900	1.600	.150
2"	2.375	2.063	.156
2-1/2"	2.875	2.501	.187
3"	3.500	3.062	.219
3-1/2"	4.000	3.500	.250
4"	4.500	4.000	.250
4-1/2"	5.000	4.500	.250
5"	5.563	5.063	.250
6"	6.625	6.125	.250

Allowable Pressure POUNDS PER SQUARE INCH				
Standard Size (Inches)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
1/8"	370	370	320	140
1/4"	870	870	760	330
3/8"	890	890	780	340
1/2"	900	900	790	340
3/4"	810	810	710	310
1"	630	630	560	240
1-1/4"	690	690	610	260
1-1/2"	630	630	560	240
2"	540	540	480	210
2-1/2"	450	450	390	170
3"	510	510	450	190
3-1/2"	570	570	500	220
4"	510	510	440	190
5"	410	410	360	160
6"	340	340	300	130

No-Lead 125LB seamless Threaded Red Brass Nipples - 2200

LEAD FREE

LEAD FREE

SCH 40 SEAMLESS
NIPPLES AND FITTINGS

113RB



LEAD FREE

1/8" - 27

1/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40001	Close (3/4")	25/400	0.02	----
40002	x 1-1/2"	25/400	0.03	----
40003	x 2"	25/400	0.04	----
40004	x 2-1/2"	25/400	0.05	----
40005	x 3"	25/400	0.06	----
40006	x 3-1/2"	25/400	0.07	----
40007	x 4"	25/400	0.08	----
40008	x 4-1/2"	25/400	0.10	----
40009	x 5"	25/400	0.11	----
40010	x 5-1/2"	25/400	0.12	----
40011	x 6"	25/400	0.13	----
40012	x 7"	25/400	0.15	----
40013	x 8"	25/400	0.17	----
40014	x 9"	25/400	0.19	----
40015	x 10"	25/400	0.21	----
40017	x 12"	25/400	0.25	----
40018	x 14"	1/1	0.29	----
40019	x 16"	1/1	0.34	----



LEAD FREE

1/4"-18

1/4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40020	Close (7/8")	25/400	0.03	----
40021	x 1-1/2"	25/400	0.05	----
40022	x 2"	25/400	0.07	----
40023	x 2-1/2"	25/400	0.09	----
40024	x 3"	25/400	0.11	----
40025	x 3-1/2"	25/400	0.13	----
40026	x 4"	25/400	0.14	----
40027	x 4-1/2"	25/400	0.16	----
40028	x 5"	25/400	0.18	----
40029	x 5-1/2"	25/400	0.20	----
40030	x 6"	25/400	0.22	----
40031	x 7"	25/200	0.25	----
40032	x 8"	25/200	0.29	----
40033	x 9"	25/200	0.33	----
40034	x 10"	25/200	0.36	----
40035	x 11"	25/200	0.40	----
40036	x 12"	25/200	0.43	----

See page 7 for Yellow Brass Nipples



LEAD FREE

3/8"-18

3/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40040	Close (1")	25/400	0.05	----
40041	x 1-1/2"	25/400	0.08	----
40042	x 2"	25/400	0.10	----
40043	x 2-1/2"	25/400	0.13	----
40044	x 3"	25/400	0.16	----
40045	x 3-1/2"	25/400	0.18	----
40046	x 4"	25/400	0.21	----
40047	x 4-1/2"	25/300	0.23	----
40048	x 5"	25/300	0.26	----
40049	x 5-1/2"	25/300	0.29	----
40050	x 6"	25/300	0.31	----
40051	x 7"	25/200	0.36	----
40052	x 8"	25/150	0.42	----
40053	x 9"	25/150	0.47	----
40054	x 10"	25/100	0.52	----
40055	x 11"	25/100	0.57	----
40056	x 12"	25/100	0.62	----

113RB



LEAD FREE

1/2" - 14

1/2" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40060	Close (1-1/8")	25/400	0.09	----
40061	x 1-1/2"	25/400	0.12	----
40062	x 2"	25/400	0.16	----
40063	x 2-1/2"	25/300	0.20	----
40064	x 3"	25/300	0.23	----
40065	x 3-1/2"	25/300	0.27	----
40066	x 4"	25/200	0.31	----
40067	x 4-1/2"	25/200	0.35	----
40068	x 5"	25/200	0.39	----
40069	x 5-1/2"	25/200	0.43	----
40070	x 6"	25/200	0.47	----
40071	x 7"	25/100	0.55	----
40072	x 8"	25/100	0.62	----
40073	x 9"	25/100	0.70	----
40074	x 10"	25/75	0.78	----
40075	x 11"	25/75	0.86	----
40076	x 12"	25/75	0.94	----

SCH 40 SEAMLESS
NIPPLES AND FITTINGS



LEAD FREE

3/4" - 14

3/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40080	Close (1- 3/8")	25/400	0.15	----
40081	x 1-1/2"	25/400	0.16	----
40082	x 2"	25/300	0.21	----
40083	x 2-1/2"	25/300	0.27	----
40084	x 3"	25/200	0.32	----
40085	x 3-1/2"	25/200	0.37	----
40086	x 4"	25/150	0.43	----
40087	x 4-1/2"	25/150	0.48	----
40088	x 5"	25/100	0.53	----
40089	x 5-1/2"	25/100	0.59	----
40090	x 6"	25/100	0.64	----
40091	x 7"	25/75	0.75	----
40092	x 8"	25/75	0.85	----
40093	x 9"	25/75	0.96	----
40094	x 10"	25/50	1.06	----
40095	x 11"	25/50	1.17	----
40096	x 12"	25/50	1.28	----
40097	x 18"	1/1	1.92	----
40098	x 24"	1/1	2.56	----
40099	x 36"	1/1	3.84	----

113RB



LEAD FREE

1" - 11 1/2

1" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40100	Close (1-1/2")	25/200	0.23	----
40101	x 2"	25/200	0.30	----
40102	x 2-1/2"	25/150	0.38	----
40103	x 3"	25/150	0.45	----
40104	x 3-1/2"	25/100	0.53	----
40105	x 4"	25/100	0.60	----
40106	x 4-1/2"	25/100	0.68	----
40107	x 5"	25/75	0.75	----
40108	x 5-1/2"	25/75	0.83	----
40109	x 6"	25/50	0.94	----
40110	x 7"	25/50	1.05	----
40111	x 8"	25/50	1.20	----
40112	x 9"	25/50	1.35	----
40113	x 10"	25/50	1.50	----
40114	x 11"	25/50	1.65	----
40115	x 12"	20/40	1.80	----



LEAD FREE

1 1/4" - 11 1/2

1-1/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40120	Close (1-5/8")	25/100	0.36	----
40121	x 2"	25/100	0.44	----
40122	x 2-1/2"	25/100	0.56	----
40123	x 3"	25/100	0.67	----
40124	x 3-1/2"	25/100	0.78	----
40125	x 4"	25/50	0.89	----
40126	x 4-1/2"	25/50	1.00	----
40127	x 5"	25/50	1.11	----
40128	x 5-1/2"	25/50	1.22	----
40129	x 6"	25/50	1.33	----
40130	x 7"	25/50	1.56	----
40131	x 8"	25/50	1.78	----
40132	x 9"	25/50	2.00	----
40133	x 10"	25/50	2.22	----
40134	x 11"	25/50	2.45	----
40135	x 12"	25/50	2.67	----
40136	x 18"	1/1	4.00	----

113RB



LEAD FREE

1-1/2" - 11 1/2

1-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40140	Close (1-3/4")	25/100	0.46	----
40141	x 2"	25/100	0.53	----
40142	x 2-1/2"	25/50	0.66	----
40143	x 3"	25/50	0.79	----
40144	x 3-1/2"	25/50	0.93	----
40145	x 4"	25/50	1.06	----
40146	x 4-1/2"	25/50	1.19	----
40147	x 5"	20/40	1.32	----
40148	x 5-1/2"	20/40	1.46	----
40149	x 6"	20/40	1.59	----
40150	x 7"	20/40	1.85	----
40151	x 8"	20/40	2.12	----
40152	x 9"	20/40	2.38	----
40153	x 10"	20/40	2.65	----
40154	x 11"	1/40	2.91	----
40155	x 12"	1/15	3.18	----
40156	x 18"	1/1	4.77	----

SCH 40 SEAMLESS
NIPPLES AND FITTINGS



LEAD FREE

2" - 11 1/2

2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40160	Close (2")	25/50	0.69	----
40161	x 2-1/2"	25/50	0.86	----
40162	x 3"	25/50	1.03	----
40163	x 3-1/2"	25/50	1.20	----
40164	x 4"	1/25	1.37	----
40165	x 4-1/2"	1/25	1.54	----
40166	x 5"	1/25	1.72	----
40167	x 5-1/2"	1/25	1.89	----
40168	x 6"	1/25	2.06	----
40169	x 7"	1/20	2.40	----
40170	x 8"	1/18	2.74	----
40171	x 9"	1/18	3.09	----
40172	x 10"	1/18	3.43	----
40173	x 11"	1/18	3.77	----
40174	x 12"	1/14	4.12	----
40175	x 18"	1/1	6.18	----
40176	x 24"	1/1	8.24	----
40178	x 36"	1/1	12.36	----
40179	x 48"	1/1	16.48	----

113RB



LEAD FREE

2 1/2" - 8

2-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40180	Close (2-1/2")	1/36	1.26	----
40181	x 3"	1/36	1.51	----
40182	x 3-1/2"	1/30	1.76	----
40183	x 4"	1/30	2.02	----
40184	x 4-1/2"	1/30	2.27	----
40185	x 5"	1/20	2.52	----
40186	x 5-1/2"	1/20	2.77	----
40187	x 6"	1/20	3.03	----

We know what we are, but know not what we may be.

- William Shakespeare

See our Valve section for 2-1/2, 3 and 4" Valves



LEAD FREE

3" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
40200	Close (2-5/8")	1/24	1.89	----
40201	x 3"	1/20	2.16	----
40202	x 3-1/2"	1/18	2.52	----
40203	x 4"	1/18	2.88	----
40204	x 4-1/2"	1/18	3.24	----
40205	x 5"	1/18	3.60	----
40206	x 5-1/2"	1/18	3.96	----
40207	x 6"	1/12	4.32	----
40209	x 8"	1/1	5.76	----
40213	x 12"	1/1		

113RB



LEAD FREE

4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40220	Close (2-7/8)	1/20	2.40	----
40221	x 3"	1/10	2.72	----
40222	x 3-1/2"	1/10	3.18	----
40223	x 4"	1/10	3.71	----
40224	x 4-1/2"	1/5	4.24	----
40225	x 5"	1/5	4.77	----
40226	x 5-1/2"	1/5	5.30	----
40234	x 6"	1/5	6.36	----



LEAD FREE

6" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
40254	Close	1/1	4.94	----
40256	x 4"	1/1	6.54	----
40259	x 4-1/2"	1/1	7.12	----
40260	x 5"	1/1	7.91	----
40261	x 6"	1/1	9.49	----

CHROME PLATED
NIPPLES AND FITTINGS

113CP



LEAD FREE

3/8" DIAMETER CHROME PLATED

Part #	Size	Box/Case	Approx. Wt. Lbs.	
41040	X Close	5/25	0.05	--------
41041	x 1-1/2"	5/25	0.08	--------
41042	x 2"	5/25	0.10	--------
41043	x 2-1/2"	5/25	0.13	--------
41044	x 3"	5/25	0.16	--------
41045	x 3-1/2"	5/25	0.18	--------
41046	x 4"	5/25	0.21	--------
41047	x 4-1/2"	5/25	0.23	--------
41048	x 5"	5/25	0.26	--------
41049	x 5-1/2"	5/25	0.29	--------
41050	x 6"	5/25	0.31	--------



LEAD FREE

1/2" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41060	X Close	5/25	0.09	----
41061	x 1-1/2"	5/25	0.12	----
41062	x 2"	5/25	0.16	----
41063	x 2-1/2"	5/25	0.20	----
41064	x 3"	5/25	0.23	----
41065	x 3-1/2"	5/25	0.27	----
41066	x 4"	5/25	0.31	----
41067	x 4-1/2"	5/25	0.35	----
41068	x 5"	5/25	0.39	----
41069	x 5-1/2"	5/25	0.43	----
41070	x 6"	5/25	0.47	----
41074	x 10"	1/1	0.78	----



81300-12

LEAD FREE

3/4" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41080	Close (1- 3/8")	25/400	0.15	----
41081	x 1-1/2"	25/400	0.16	----
41082	x 2"	25/300	0.21	----
41083	x 2-1/2"	25/300	0.27	----
41084	x 3"	25/200	0.32	----
41085	x 3-1/2"	25/200	0.37	----
41086	x 4"	25/150	0.43	----
41087	x 4-1/2"	25/150	0.48	----
41088	x 5"	25/100	0.53	----
41089	x 5-1/2"	25/100	0.59	----
41090	x 6"	25/100	0.64	----



81300-16

LEAD FREE

1" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
41100	Close (1-1/2")	25/200	0.23	----
41101	x 2"	25/200	0.30	----
41102	x 2-1/2"	25/150	0.38	----
41103	x 3"	25/150	0.45	----
41104	x 3-1/2"	25/100	0.53	----
41105	x 4"	25/100	0.60	----
41106	x 4-1/2"	25/100	0.68	----
41107	x 5"	25/75	0.75	----
41108	x 5-1/2"	25/75	0.83	----
41109	x 6"	25/50	0.94	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRONZE FITTINGS



UL842, UL258, UL125,FM

Class 125 (150) For steam, water, gas, oil and air service

Standard specifications

- UL/ FM Approved
- 1S0 9001:2000
- Not Lead Free
- RoHS Compliant

Materials - ASTM B62-93 (85,5,5,5) C83600
Dimensions - ANSI B 16.15
Threads - ANSI B2.1 or BA 21 and Fed. WW-P-460C, MSS-SP-106, ANSI/ASME B1.20.1

Bronze threaded fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gauged to ensure a perfect fit with the pipe. All fittings are individually tested under water to ensure quality. Bronze provides a tighter seal and is easier to install than other metals. Can be used for water, plumbing, heating, pneumatic and marine applications, able to resist the harmful effects of corrosion when coming into contact with salt water or fresh water polluted with mineral acids or peaty soils.

LEAD FREE BRASS FITTINGS

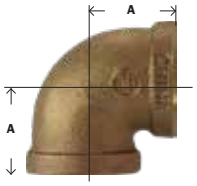


- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933
- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



100RB

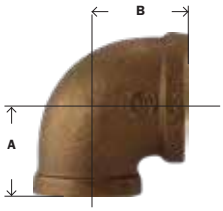
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LEAD FREE



90° ELBOWS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44100	----	0.08	50/600	1/8″	0.55	0.06	44-100LF	----
44101	----	0.12	35/420	1/4″	0.72	0.10	44-101LF	----
44102	----	0.17	90/360	3/8″	0.83	0.15	44-102LF	----
44103	----	0.24	50/200	1/2″	1.03	0.25	44-103LF	----
44104	----	0.34	35/105	3/4″	1.19	0.41	44-104LF	----
44105	----	0.61	20/60	1″	1.43	0.69	44-105LF	----
44106	----	0.95	20/40	1-1/4″	1.71	1.02	44-106LF	----
44107	----	1.30	15/30	1-1/2″	1.87	1.36	44-107LF	----
44108	----	2.07	8/16	2″	2.14	2.14	44-108LF	----
44109	----	3.80	1/12	2-1/2″	2.74	3.79	44-109LF	
44110	----	4.76	1/4	3″	3.10	5.21	44-110LF	----
44112	----	9.71	1/2	4″	3.80	8.59	44-112LF	



100RRB

738105

LEAD FREE

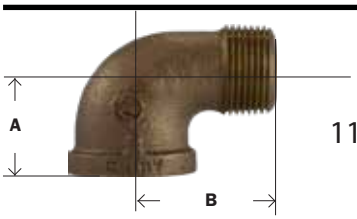


90° REDUCING ELBOWS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44120				1/4 x 1/8				44120LF	----
				3/8 x 1/8				44121LF	----
44122	----			3/8 x 1/4				44122LF	----
44123	----	0.44	60/240	1/2 x 1/4	0.93	0.90	0.19	44123LF	----
44124	----	0.58	60/240	1/2 x 3/8	0.93	0.90	0.22	44124LF	----
44125	----	0.80	40/160	3/4 x 1/4	1.08	1.11	0.31	44125LF	----
				3/4 x 3/8				44126LF	----
44127	----			3/4 x 1/2				44127LF	----
				1 x 1/4				44128LF	----
				1 x 3/8				44129LF	----
				1 x 1/2				44130LF	----
44131	----	1.07	50/100	1 x 3/4	1.30	1.31	0.56	44131LF	----
				1 1/4 x 1/2				44132LF	----
				1 1/4 x 3/4				44133LF	----
44134	----	0.80	25/50	1 1/4 x 1	1.52	1.60	0.81	44134LF	----
				1 1/2 x 1/2				44135LF	----
				1 1/2 x 3/4				44136LF	----
44137	----	1.07	10/40	1 1/2 x 1	1.56	1.72	1.02	44137LF	----
				1 1/2 x 1 1/4				44138LF	----
44140	----			2 x 1				44140LF	----
				2 x 1 1/4				44141LF	----
				2 x 1 1/2				44142LF	----
				2 1/2 x 2				44146LF	----
				3 x 2				44150LF	----

• Other sizes available online

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



116RB

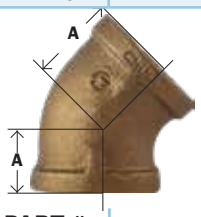
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LEAD FREE



90° STREET ELLS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44160	----	0.07	60/720	1/8″	0.55	0.92	0.06	44160LF	----
44161	----	0.11	35/420	1/4″	0.72	1.11	0.11	44161LF	----
44162	----	0.18	60/240	3/8″	0.83	1.24	0.16	44162LF	----
44163	----	0.24	60/180	1/2″	1.03	1.51	0.24	44163LF	----
44164	----	0.37	35/105	3/4″	1.19	1.66	0.38	44164LF	----
44165	----	0.67	45/90	1″	1.43	1.98	0.66	44165LF	----
44166	----	1.00	25/50	1-1/4″	1.71	2.26	0.99	44166LF	----
44167	----	1.37	9/27	1-1/2″	1.87	2.46	1.15	44167LF	----
44168	----	1.93	8/16	2″	2.14	2.98	2.07	44168LF	----
44169	----	4.05	5/10	2-1/2″	2.74	3.92	3.79	44169LF	----
44170	----	6.16	1/8	3″	3.10	4.45	6.38	44170LF	----



10045RB

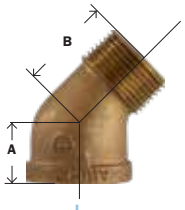
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LEAD FREE



45° ELBOWS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44180	----	0.08	50/600	1/8″	0.43	0.05	44180LF	----
44181	----	0.13	30/360	1/4″	0.55	0.09	44181LF	----
44182	----	0.17	75/300	3/8″	0.63	0.14	44182LF	----
44183	----	0.21	50/200	1/2″	0.79	0.19	44183LF	----
44184	----	0.32	40/120	3/4″	0.91	0.36	44184LF	----
44185	----	0.52	20/60	1″	1.07	0.59	44185LF	----
44186	----	0.86	20/40	1-1/4″	1.23	0.87	44186LF	----
44187	----	1.10	10/30	1-1/2″	1.31	1.13	44187LF	----
44188	----	1.71	12/24	2″	1.47	1.65	44188LF	----
44189	----	3.24	1/12	2-1/2"	1.95	2.69	44189LF	----
44190	----	4.12	1/10	3"	2.17	3.68	44190LF	----
				4"	2.60	7.49	44191LF	----



124RB

738124

LEAD FREE



45° STREET ELBOWS

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #	
44200	----	0.06	70/840	1/8″	0.26	0.43	0.06		
44201	----	0.11	100/400	1/4″	0.35	0.56	0.09	44201LF	----
44202	----	0.13	100/400	3/8″	0.37	0.63	0.12	44202LF	----
44203	----	0.18	75/225	1/2″	0.45	0.79	0.22	44203LF	----
44204	----	0.28	40/120	3/4″	0.52	0.91	0.31	44204LF	----
44205	----	0.52	25/75	1″	0.60	1.07	0.52	44205LF	----
44206	----	0.77	10/40	1-1/4″	0.67	1.23	0.72	44206LF	----
44207	----	0.97	10/30	1-1/2″	0.70	1.31	1.05	44207LF	----
44208	----	2.04	12/24	2″	0.76	1.47	2.04	44208LF	----

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



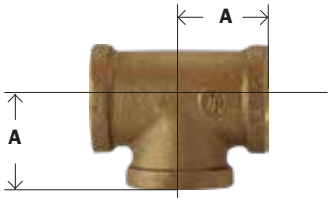
102RB

738102



CROSSES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44391	----	0.20	60/240	1/4″	0.72	0.15	44391LF	----
44392	----	0.15	50/150	3/8″	0.83	0.25	44392LF	----
44393	----	0.45	30/90	1/2″	1.03	0.38	44393LF	----
44394	----	0.76	20/60	3/4″	1.19	0.59	44394LF	----
44395	----	1.04	15/30	1″	1.19	0.94	44395LF	----
44396	----	1.63	10/20	1-1/4″	1.71	1.43	44396LF	----
44397	----	2.10	8/16	1-1/2″	1.87	1.89	44397LF	----
44398	----	3.28	5/10	2″	2.14	2.95	44398LF	----



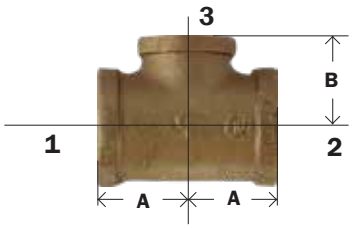
101RB



TEES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44250	----	0.11	120/480	1/8″	0.55	0.09	44250LF	----
44251	----	0.17	75/300	1/4″	0.72	0.13	44251LF	----
44252	----	0.25	45/180	3/8″	0.83	0.21	44252LF	----
44253	----	0.31	40/120	1/2″	1.03	0.35	44253LF	----
44254	----	0.50	35/70	3/4″	1.19	0.55	44254LF	----
44255	----	0.85	20/40	1″	1.43	0.92	44255LF	----
44256	----	1.29	14/28	1-1/4″	1.71	1.34	44256LF	----
44257	----	1.68	12/24	1-1/2″	1.87	1.82	44257LF	----
44258	----	2.70	8/16	2″	2.14	2.80	44258LF	----
44259	----	5.14	1/6	2-1/2″	2.74	4.70	44259LF	----
44260	----	7.59	1/6	3″	3.10	6.69	44260LF	----
				4"	3.18	11.92	44261LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



101RRB

738106

LEAD FREE



REDUCING TEES
REDUCING ON THE BRANCH

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE 1 X 2 X 3	A	B	APPROX. WT. LBS.	PART #	
				1/4 x 1/4 x 1/8				44270LF	----
				3/8 x 3/8 x 1/4				44273LF	----
44276	----	0.24	40/160	1/2 x 1/2 x 1/4	0.87	0.87	0.28	44276LF	----
				1/2 x 1/2 x 3/8				44279LF	----
44280	----	0.46	40/160	1/2 x 1/2 x 3/4	2.42	1.155	0.48	44280LF	----
44287	----			3/4 x 1/2 x 1/2				44287LF	----
				3/4 x 1/2 x 3/4				44288LF	----
44282	----	0.43	25/100	3/4 x 3/4 x 1/4	1.05	1.08	0.38	44282LF	----
44283	----	0.45	25/100	3/4 x 3/4 x 3/8	1.00	1.00	0.46	44283LF	----
44286	----	0.53	20/80	3/4 x 3/4 x 1/2	1.08	1.11	0.40	44286LF	----
				3/4 x 3/4 x 1				44288LF	----
				1 x 1/2 x 1/2				44292LF	----
				1 x 1/2 x 3/4				44293LF	----
44296	----			1 x 3/4 x 3/4				44296LF	----
				1 x 1 x 1/4				44268LF	----
				1 x 1 x 3/8				44290LF	----
44291	----	0.60	15/60	1 x 1 x 1/2	1.20	1.24	0.73	44291LF	----
44298	----	0.80	12/48	1 x 1 x 3/4	1.30	1.31	0.71	44298LF	----
				1 1/4 x 1/2x1 x 1 1/4				44314LF	----
44301	----	0.85	20/40	1 1/4 x 1 1/4 x 1/2	1.34	1.53	1.18	44301LF	----
44303	----	0.90	20/40	1 1/4 x 1 1/4 x 3/4	1.30	1.31	1.08	44303LF	----
44306	----	1.21	20/40	1 1/4 x 1 1/4 x 1	1.58	1.67	1.23	44306LF	----
				1 1/2 x 1 1/2 x 1/2				44315LF	----
				1 1/2 x 1 1/2 x 3/4				44316LF	----
				1 1/2 x 1 1/2 x 1				44318LF	----
				1 1/2 x 1 1/2 x 1 1/4				44322LF	----
				2 x 2 x 1/2				44327LF	----
				2 x 2 x 3/4				44328LF	----
				2 x 2 x 1			1.88	44330LF	----
				2 x 2 x 1 1/4			2.03	44334LF	----
				2 x 2 x 1 1/2				44336LF	----
				2 1/2 x 2 1/2 x 2				44344LF	----
				3 x 3 x 2				44351LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



103RB

738103

LEAD FREE



COUPLINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44410	----	0.12	70/840	1/8″	0.80	0.06	44410LF	----
44411	----	0.11	40/480	1/4″	0.80	0.09	44411LF	----
44412	----	0.15	40/480	3/8″	1.05	0.13	44412LF	----
44413	----	0.18	60/240	1/2″	1.29	0.21	44413LF	----
44414	----	0.28	50/150	3/4″	1.43	0.32	44414LF	----
44415	----	0.45	25/100	1″	1.68	0.53	44415LF	----
44416	----	0.63	16/64	1-1/4″	1.86	0.73	44416LF	----
44417	----	0.82	18/36	1-1/2″	1.92	0.97	44417LF	----
44418	----	1.38	12/24	2″	2.20	1.51	44418LF	----
44419	----	2.63	1	2-1/2"	2.88	2.20	44419LF	----
44420	----	3.80	1	3″	3.18	3.63	44420LF	----
				4"			44421LF	----



119RB

738119

LEAD FREE



REDUCING COUPLINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44430	----	0.08	70/840	1/4″ x 1/8″	0.88	0.08	44430LF	----
44431	----	0.11	35/420	3/8″ x 1/8″	0.92	0.10	44431LF	----
44432	----	0.13	30/360	3/8″ x 1/4″	0.92	0.11	44432LF	----
44433	----	0.16	75/300	1/2″ x 1/8″	1.17	0.14		
44434	----	0.16	75/300	1/2″ x 1/4″	1.17	0.16	44434LF	----
44435	----	0.18	60/240	1/2″ x 3/8″	1.17	0.17	44435LF	----
44436	----	0.23	45/180	3/4″ x 1/4″	1.35	0.20	44436LF	----
44437	----	0.24	45/180	3/4″ x 3/8″	1.35	0.23	44437LF	----
44438	----	0.23	60/180	3/4″ x 1/2″	1.35	0.26	44438LF	----
44440	----	0.40	30/120	1″ x 3/8″	1.56	0.40		
44441	----	0.33	30/120	1″ x 1/2″	1.56	0.38	44441LF	----
44442	----	0.44	25/100	1″ x 3/4″	1.56	0.43	44442LF	----
44444	----	0.62	25/75	1-1/4″ x 1/2″	1.77	0.60	44444LF	----
44445	----	0.64	25/75	1-1/4″ x 3/4″	1.77	0.57	44445LF	----
44446	----	0.54	15/60	1-1/4″ x 1″	1.77	0.65	44446LF	----
44447	----	0.80	20/60	1-1/2″ x 1/2″	1.80	0.77	44447LF	----
44448	----	0.83	15/60	1-1/2″ x 3/4″	1.80	0.74	44448LF	----
44449	----	0.68	25/50	1-1/2″ x 1″	1.80	0.83	44449LF	----
44450	----	0.99	12/48	1-1/2″ x 1-1/4″	1.80	0.87	44450LF	----
44458	----	1.28	12/36	2″ x 1/2″	2.03	1.07		
44451	----	0.97	12/36	2″ x 3/4″	2.03	1.25	44451LF	----
44452	----	1.40	12/36	2″ x 1″	2.03	1.19	44452LF	----
44453	----	1.09	9/27	2″ x 1-1/4″	2.03	1.22	44453LF	----
44454	----	3.60	9/27	2″ x 1-1/2″	2.03	1.28	44454LF	----
44461	----	1.26	1	2-1/2″ x 1-1/2″	3.15	1.94		
44462	----	2.29	1	2-1/2″ x 2″	3.15	2.37	44462LF	----
44456	----	2.49	1	3″ x 2″	3.69	2.46		
44463	----	3.92	1	3″ x 2-1/2″	3.69	3.82		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



108RB

738108

LEAD FREE



CAPS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44470	----	0.04	80/160	1/8″	0.53	0.03	44470LF	----
44471	----	0.06	80/960	1/4″	0.58	0.06	44471LF	----
44472	----	0.10	60/720	3/8″	0.66	0.09	44472LF	----
44473	----	0.13	75/300	1/2″	0.75	0.13	44473LF	----
44474	----	0.19	40/160	3/4″	0.87	0.21	44474LF	----
44475	----	0.30	25/100	1″	1.03	0.35	44475LF	----
44476	----	0.51	20/80	1-1/4″	1.10	0.52	44476LF	----
44477	----	0.66	18/54	1-1/2″	1.12	0.65	44477LF	----
44478	----	1.00	12/36	2″	1.35	1.14	44478LF	----
44479				2-1/2"	1.69	1.83	44479LF	----
44480	----	2.74	1	3″	1.83	2.64	44480LF	----
				4"	2.09	4.21	44481LF	----



104RB

738104

LEAD FREE



UNIONS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44600	----	0.17	40/160	1/8″	1.18	0.13	44600LF	----
44601	----	0.25	40/160	1/4″	1.26	0.27	44601LF	----
44602	----	0.37	40/160	3/8″	1.50	0.39	44602LF	----
44603	----	0.52	50/100	1/2″	1.57	0.44	44603LF	----
44604	----	0.78	35/70	3/4″	1.89	0.59	44604LF	----
44605	----	1.18	20/40	1″	2.13	0.90	44605LF	----
44606	----	1.64	15/30	1-1/4″	2.36	1.33	44606LF	----
44607	----	2.08	10/20	1-1/2″	2.68	1.80	44607LF	----
44608	----	3.24	6/12	2″	2.99	2.66	44608LF	----
44609	----	5.31	4/8	2-1/2″	3.35	4.80	44609LF	----
44610	----	6.94	4/8	3″	3.74	6.49	44610LF	----
				4"	3.86	9.56	44611LF	----



• Straight Thread

111RB

738111

LEAD FREE



HEX LOCKNUTS

PART #	BOX/ CASE	SIZE	A	THICKNESS	APPROX. WT. LBS.		
44-700	180/720	1/8″	0.50	0.19	0.01	44700LF	----
44-701	90/540	1/4″	0.66	0.25	0.03	44701LF	----
44-702	90/540	3/8″	0.77	0.28	0.04	44702LF	----
44-703	90/360	1/2″	0.97	0.31	0.09	44703LF	----
44-704	90/360	3/4″	1.23	0.34	0.10	44704LF	----
44-705	50/150	1″	1.50	0.38	0.17	44705LF	----
44-706	45/180	1-1/4″	1.86	0.42	0.22	44706LF	----
44-707	45/135	1-1/2″	2.12	0.47	0.29	44707LF	----
44-708	25/75	2″	2.63	0.53	0.45	44708LF	----

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BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



Hex

110RB

738110

LEAD FREE



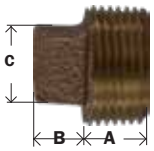
HEX BUSHINGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	HEX	APPROX. WT. LBS.	PART #	
44500	----	0.02	120/1440	1/4″ x 1/8″	0.58	0.66	0.03	44500LF	----
44501	----	0.06	75/900	3/8″ x 1/8″	0.64	0.72	0.06	44501LF	----
44502	----	0.04	75/900	3/8″ x 1/4″	0.64	0.75	0.04	44502LF	----
44503	----	0.10	150/600	1/2″ x 1/8″	0.75	0.92	0.09	44503LF	----
44504	----	0.09	150/600	1/2″ x 1/4″	0.75	0.93	0.10	44504LF	----
44505	----	0.08	150/600	1/2″ x 3/8″	0.75	0.92	0.08	44505LF	----
44506	----	0.17	75/300	3/4″ x 1/8″	0.87	1.15	0.17	44506LF	----
44507	----	0.15	75/300	3/4″ x 1/4″	0.85	1.14	0.18	44507LF	----
44508	----	0.14	75/300	3/4″ x 3/8″	0.85	1.14	0.17	44508LF	----
44509	----	0.14	75/300	3/4″ x 1/2″	0.85	1.15	0.14	44509LF	----
44557	----	0.24	50/200	1" x 1/8"	1.05	1.43			
44510*	----	0.23	50/200	1″ x 1/4″	1.05	1.43	0.28	44510LF*	----
44511*	----	0.22	50/200	1″ x 3/8″	1.05	1.50	0.26	44511LF	----
44512	----	0.25	50/200	1″ x 1/2″	1.00	1.40	0.30	44512LF	----
44513	----	0.21	50/200	1″ x 3/4″	1.00	1.43	0.21	44513LF	----
44514	----	0.34	30/120	1-1/4″ x 1/4″	1.22	1.10	0.34	44514LF	----
44515	----	0.35	30/120	1-1/4″ x 3/8″	1.19	1.84	0.29	44515LF	----
44516*	----	0.34	30/120	1-1/4″ x 1/2″	1.14	1.33	0.39	44516LF*	----
44517	----	0.40	30/120	1-1/4″ x 3/4″	1.08	1.75	0.43	44517LF	----
44518	----	0.33	30/120	1-1/4″ x 1″	1.08	1.76	0.42	44518LF	----
44519*	----	0.47	25/75	1-1/2″ x 1/4″	1.09	2.12	0.29	44519LF	----
44520*	----	0.45	25/75	1-1/2″ x 3/8″	1.35	2.16	0.44	44520LF	----
44521*	----	0.44	25/75	1-1/2″ x 1/2″	1.20	2.10	0.51	44521LF*	----
44522*	----	0.48	25/75	1-1/2″ x 3/4″	1.20	2.12	0.54	44522LF*	----
44523	----	0.53	25/75	1-1/2″ x 1″	1.14	2.08	0.57	44523LF	----
44524	----	0.45	25/75	1-1/2″ x 1-1/4″	1.14	2.12	0.46	44524LF	----
44527*	----	0.67	20/60	2″ x 1/2″	1.27	1.32	1.10	44527LF	----
44528*	----	0.74	20/60	2″ x 3/4″	1.27	1.62	0.77	44528LF	----
44529*	----	0.76	20/60	2″ x 1″	1.29	1.95	0.77	44529LF*	----
44530	----	0.86	20/60	2″ x 1-1/4″	1.22	2.47	0.88	44530LF	----
44531	----	0.83	20/60	2″ x 1-1/2″	1.22	2.50	0.71	44531LF	----
44532	----	1.16	15/30	2-1/2″ x 1″	1.53	1.94	1.19	44532LF	----
			15/30	2-/1/2" x 1-1/4"		1.50	1.24	44533LF	----
44534	----	1.36	15/30	2-1/2″ x 1-1/2″	1.50	2.38	1.15	44534LF	----
44535	----	1.13	15/30	2-1/2″ x 2″	1.43	2.97	1.12	44535LF	----
44537	----	1.82	12/24	3″ x 1-1/2″	1.61	2.68	2.44	44537LF	----
44538	----	2.33	12/24	3″ x 2″	1.61	3.70	1.82	44538LF	----
44539	----	2.19	12/24	3″ x 2-1/2″	1.53	3.70	2.11	44539LF	----
44541	----	3.51	5/10	4" x 2"	1.81	4.62	3.86	44541LF	----
			5/10	4" x 2-1/2"	1.81	4.62	3.48	44542LF	----
44543	----	4.22	12/24	4" x 3"	2.01	4.62	3.56	44543LF	----



* INSIDE HEX

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109RB 738109

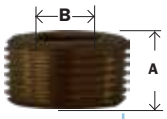
LEAD FREE



CORED SQUARE HEAD PLUGS

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	B	C	APPROX. WT. LBS.	PART #	
44650*	----	0.02	300/3600	1/8″	0.27	0.24	0.28	0.02	44650LF	----
44651*	----	0.04	150/1800	1/4″	0.41	0.28	0.37	0.04	44651LF	----
44652*	----	0.06	100/1200	3/8″	0.41	0.31	0.43	0.06	44652LF	----
44653	----	0.10	50/600	1/2″	0.54	0.38	0.56	0.10	44653LF	----
44654	----	0.13	30/360	3/4″	0.55	0.44	0.62	0.13	44654LF	----
44655	----	0.25	20/240	1″	0.69	0.50	0.81	0.22	44655LF	----
44656	----	0.39	40/120	1-1/4″	0.71	0.56	0.93	0.32	44656LF	----
44657	----	0.57	30/90	1-1/2″	0.73	0.62	1.12	0.47	44657LF	----
44658	----	0.77	20/60	2″	0.76	0.68	1.31	0.68	44658LF	----
44659	----	1.25	16/32	2-1/2″	1.07	0.74	1.50	1.26	44659LF	----
44660	----	2.02	16/32	3″	1.13	0.80	1.68	1.49	44660LF	----
44662	----	3.20	6/12	4″	1.22	0.92	2.25	3.20	44662LF	----

* solid

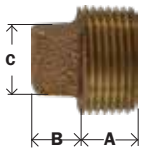


109ALRB **SQUARE DRIVE** 738115

BRONZE COUNTERSUNK PLUGS



PART #	A	SOCKET SIZE	SIZE	BOX/CASE	APPROX. WT. LBS.	SIZE	
			1/8"			44630LF	----
			1/4"			44631LF	----
			3/8"			44632LF	----
44633	0.57	0.43	1/2″	120/1440	0.06	44633LF	----
44634	0.58	0.47	3/4″	70/840	0.11	44634LF	----
44635	0.75	0.59	1″	20/240	0.22	44635LF	----
44636	0.74	0.72	1-1/4″	40/120	0.33	44636LF	----
44637	0.79	0.72	1-1/2″	30/90	0.50	44637LF	----
44638	0.80	0.85	2″	20/60	0.88	44638LF	----
44639	1.08	1.25	2-1/2"	1/1	1.56	44639LF	----
44640	1.13	1.38	3"	1/1	2.47	44640LF	----
44641	1.22	2.12	4"	1/1	3.21	44641LF	----



109SRB 738114



SOLID SQUARE HEAD PLUGS

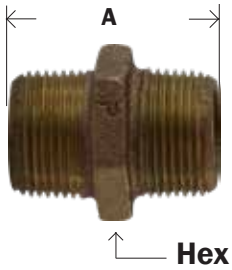
PART #		A	B	C	SIZE	BOX/CASE	APPROX. WT. LBS.	PART #	
44670	----	0.27	0.24	0.28	1/8″	400/4800	0.02	44670LF	----
44671	----	0.41	0.28	0.37	1/4″	150/1800	0.04	44671LF	----
44672	----	0.41	0.31	0.43	3/8″	120/1440	0.06	44672LF	----
44673	----	0.54	0.38	0.56	1/2″	50/600	0.12	44673LF	----
44674	----	0.55	0.44	0.62	3/4″	35/420	0.18	44674LF	----
44675	----	0.69	0.50	0.81	1″	20/240	0.36	44675LF	----
44676	----	0.71	0.56	0.93	1-1/4″	30/120	0.63	44676LF	----
44677	----	0.73	0.62	1.12	1-1/2″	30/90	0.84	44677LF	----
44678	----	0.76	0.68	1.31	2″	10/60	1.27	44678LF	----
					2-1/2"			44679LF	----
					3"			44680LF	----
					4"			44681LF	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

HEX NIPPLES



PART #	SIZE	A	HEX	BOX/CASE	APPROX. WT. LBS.	
44720	1/8″	1.25	0.50	400/4800	0.05	----
44721	1/4″	1.25	0.61	150/1800	0.06	----
44722	3/8"	1.55	0.68	120/1440	0.11	----
44723	1/2″	1.65	1.03	240/480	0.18	----
44724	3/4″	1.77	1.21	80/320	0.24	----
44725	1″	2.06	1.46	50/150	0.36	----
44726	1-1/4″	2.12	1.81	50/100	0.47	----
44727	1-1/2″	2.25	2.07	35/70	0.76	----
44728	2″	2.50	2.41	20/40	1.50	----
44729	2-1/2″	2.80	3.10	1	2.10	----
44730M	3"	3.58	3.88	4/8	2.53	----

REDUCING HEX NIPPLES



PART #	SIZE	BOX/CASE	APPROX. WT. LBS.	
44740	1/4" x 1/8"	1/1	0.06	----
44742	1/2" x 3/8"	1/1	0.16	----
44750	1-1/2" x 1"	1/1	0.64	----
44753	1-1/2" x 1-1/4"	1/1	0.68	----

See page 239 for Stainless Steel Reducing Hex Nipples

FLANGE THREADED COMPANION LEAD-FREE



PART #	SIZE	STD. PACK.	WT. PER 100	
44790LF	1/2" x 3-1/2"	1	95	----
44791LF	3/4" x 3-7/8"	1	124	----
44792LF	1" x 4-1/4"	1	168	----
44793LF	1-1/4" x 4-5/8"	1	224	----
44794LF	1-1/2" x 5"	1	251	----
44795LF	2" x 6"	1	454	----
44796LF	2-1/2" x 7"	1	673	----
44797LF	3" x 7-1/2"	1	864	----
44798LF	4" x 9"	1	1227	----
44799LF	5" x 10"	1	1495	----
44800LF	6" x 11"	1	1801	----

FLANGE SWEAT COMPANION LEAD FREE



PART #	SIZE	STD. PACK.	WT. PER 100	
44827LF	1-1/2" x 5"	1	176	----
44828LF	2" x 6"	1	291	----
44829LF	2-1/2" x 7"	1	405	----
44830LF	3" x 7-1/2"	1	520	----
44831LF	4" x 9"	1	798	----

FLANGE FLOOR LEAD FREE



PART #	SIZE	STD. PACK.	WT. PER 100	
44780LF	1/2"	1	35	----
44781LF	3/4"	1	44	----
44782LF	1"	1	59	----
44783LF	1-1/4"	1	87	----
44784LF	1-1/2"	1	105	----
44785LF	2"	1	150	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRONZE FITTINGS

CHROME PLATED 90° ELBOW



LEAD FREE

781100

PART #	SIZE	
45102LF	3/8"	----
45103LF	1/2"	----
45104LF	3/4"	----
45105LF	1"	----

CHROME PLATED COUPLING



LEAD FREE

781103

PART #	SIZE	
45412LF	3/8"	----
45413LF	1/2"	----
45435LF	1/2" x 3/8"	----

90° ELBOW



81100

PART #	SIZE	APPROX. WT. LBS.	
45100	1/8″	0.08	----
45101	1/4″	0.12	----
45102	3/8″	0.17	----
45103	1/2″	0.24	----
45104	3/4″	0.34	----
45105	1″	0.61	----
45124	1/2″ x 3/8″	0.58	----
45127	3/4″ x 1/2″	0.80	----

90° STREET ELLS



81116

PART #	SIZE	APPROX. WT. LBS.	
45160	1/8″	0.07	----
45161	1/4″	0.11	----
45162	3/8″	0.18	----
45163	1/2″	0.24	----
45164	3/4″	0.37	----
45165	1"		----

CHROME PLATED 90° ELBOW



LEAD FREE

781116

PART #	SIZE	
45163LF	1/2"	----
45164LF	3/4"	----

CHROME PLATED TEE



LEAD FREE

781101

PART #	SIZE	
45252LF	3/8"	----
45253LF	1/2"	----

45° ELBOW



81124

PART #	SIZE	APPROX. WT. LBS.	
45200	1/8″	0.06	----
45201	1/4″	0.11	----
45202	3/8″	0.13	----
45203	1/2″	0.18	----
45204	3/4″	0.28	----

CROSSES



81102

PART #	SIZE	APPROX. WT. LBS.	
45393	1/2″	0.45	----
45394	3/4″	0.76	----

CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

45° ELBOWS



81107

PART #	SIZE	APPROX. WT. LBS.	
45180	1/8″	0.08	----
45181	1/4″	0.13	----
45182	3/8″	0.17	----
45183	1/2″	0.21	----
45184	3/4″	0.32	----
45185	1″	0.52	----

TEES



81101

PART #	SIZE	APPROX. WT. LBS.	
45250	1/8″	0.11	----
45251	1/4″	0.17	----
45252	3/8″	0.25	----
45253	1/2″	0.31	----
45254	3/4″	0.50	----
45255	1″	0.85	----

COUPLINGS



81103

PART #	SIZE	APPROX. WT. LBS.	
45410	1/8″	0.12	----
45411	1/4″	0.11	----
45412	3/8″	0.15	----
45413	1/2″	0.18	----
45414	3/4″	0.28	----
45415	1″	0.45	----
45432	3/8″ x 1/4″	0.13	----
45435	1/2″ x 3/8″	0.18	----
45438	3/4″ x 1/2″	0.23	----
45439	1″ x 3/4″	0.44	----

CAPS



81108

PART #	SIZE	APPROX. WT. LBS.	
45470	1/8″	0.04	----
45471	1/4″	0.06	----
45472	3/8″	0.10	----
45473	1/2″	0.13	----
45474	3/4″	0.19	----
45475	1"		----

UNIONS



81104

PART #	SIZE	APPROX. WT. LBS.	
45600	1/8″	0.17	----
45601	1/4″	0.25	----
45602	3/8″	0.37	----
45603	1/2″	0.52	----
45604	3/4″	0.78	----
45605	1″	1.18	----
45606	1-1/4″	1.64	----

HEX BUSHINGS



81110

PART #	SIZE	APPROX. WT. LBS.	
45502	3/8″ x 1/4″	0.04	----
45504	1/2″ x 1/4″	0.09	----
45505	1/2″ x 3/8″	0.08	----
45509	3/4″ x 1/2″	0.14	----
45513	1″ x 3/4″	0.21	----

PLUGS



PART #	SIZE	APPROX. WT. LBS.	
45652	3/8″	0.06	----
45653	1/2″	0.10	----
45654	3/4″	0.13	----
45655	1″	0.25	----
45657	1-1/2″	0.57	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

90° ELBOWS



PART #	SIZE	LBS.	
44100DLF	1/8"	0.06	----
44101DLF	1/4"	0.10	----
44102DLF	3/8"	0.15	----
44103DLF	1/2"	0.25	----
44104DLF	3/4"	0.41	----
44105DLF	1"	0.69	----
44106DLF	1-1/4"	1.02	----
44107DLF	1-1/2"	1.36	----
44108DLF	2"	2.14	----
44109DLF	2-1/2"	3.79	----
44110DLF	3"	5.21	----
44112DLF	4"	8.59	----

90° REDUCING ELBOWS



PART #	SIZE	LBS.	
44120DLF	1/4 x 1/8	0.09	----
44121DLF	3/8 x 1/8	0.13	----
44122DLF	3/8 x 1/4	0.13	----
44123DLF	1/2 x 1/4	0.19	----
44124DLF	1/2 x 3/8	0.22	----
44125DLF	3/4 x 1/4	0.31	----
44126DLF	3/4 x 3/8	0.29	----
44127DLF	3/4 x 1/2	0.31	----
44128DLF	1 x 1/4	0.41	----
44129DLF	1 x 3/8	0.39	----
44130DLF	1 x 1/2	0.45	----
44131DLF	1 x 3/4	0.56	----
44132DLF	1 1/4 x 1/2	0.72	----
44133DLF	1 1/4 x 3/4	0.68	----
44134DLF	1 1/4 x 1	0.81	----
44135DLF	1 1/2 x 1/2	0.94	----
44136DLF	1 1/2 x 3/4	0.88	----
44137DLF	1 1/2 x 1	1.02	----
44138DLF	1 1/2 x 1 1/4	1.00	----
44140DLF	2 x 1	1.46	----
44141DLF	2 x 1 1/4	1.48	----
44142DLF	2 x 1 1/2	1.73	----

90° DROP ELBOWS



PART #	SIZE	LBS.	
44839DLF	3/8"	0.25	----
44840DLF	1/2"	0.37	----

90° STREET ELBOWS



PART #	SIZE	LBS.	
44160DLF	1/8"	0.06	----
44161DLF	1/4"	0.11	----
44162DLF	3/8"	0.16	----
44163DLF	1/2"	0.24	----
44164DLF	3/4"	0.38	----
44165DLF	1"	0.66	----
44166DLF	1-1/4"	0.99	----
44167DLF	1-1/2"	1.15	----
44168DLF	2"	2.07	----
44169DLF	2-1/2"	3.79	----
44170DLF	3"	6.38	----

45° ELBOWS



PART #	SIZE	LBS.	
44180DLF	1/8"	0.05	----
44181DLF	1/4"	0.09	----
44182DLF	3/8"	0.14	----
44183DLF	1/2"	0.19	----
44184DLF	3/4"	0.36	----
44185DLF	1"	0.59	----
44186DLF	1-1/4"	0.87	----
44187DLF	1-1/2"	1.13	----
44188DLF	2"	1.65	----
44189DLF	2-1/2"	2.69	----
44190DLF	3"	3.68	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

45° STREET ELBOWS



PART #	SIZE	LBS.	
44201DLF	1/4"	0.09	----
44202DLF	3/8"	0.12	----
44203DLF	1/2"	0.22	----
44204DLF	3/4"	0.31	----
44205DLF	1"	0.52	----
44206DLF	1-1/4"	0.72	----
44207DLF	1-1/2"	1.05	----
44208DLF	2"	2.04	----

CROSSES



PART #	SIZE	LBS.	
44391DLF	1/4"	0.15	----
44392DLF	3/8"	0.25	----
44393DLF	1/2"	0.38	----
44394DLF	3/4"	0.59	----
44395DLF	1"	0.94	----
44396DLF	1-1/4"	1.43	----
44397DLF	1-1/2"	1.89	----
44398DLF	2"	2.95	----

If a man does not keep pace with his companions, perhaps it is because he hears a different drummer. Let him step to the music which he hears, however measured or far away.

- Henry David Thoreau

TEES



PART #	SIZE	LBS.	
44250DLF	1/8"	0.09	----
44251DLF	1/4"	0.13	----
44271DLF	1/4" x 1/4" x 3/8"	0.17	----
44270DLF	1/4" x 1/4" x 1/8"	0.12	----
44252DLF	3/8"	0.21	----
44281DLF	3/8" x 3/8" x 1/2"	0.24	----
44273DLF	3/8" x 3/8" x 1/4"	0.17	----
44253DLF	1/2"	0.35	----
44280DLF	1/2" x 1/2" x 3/4"	0.38	----
44276DLF	1/2" x 1/2" x 1/4"	0.23	----
44254DLF	3/4"	0.55	----
44289DLF	3/4" x 3/4" x 1"	0.55	----
44286DLF	3/4" x 3/4" x 1/2"	0.41	----
44283DLF	3/4" x 3/4" x 3/8"	0.40	----
44282DLF	3/4" x 3/4" x 1/4"	0.35	----
44288DLF	3/4" x 1/2" x 3/4"	0.42	----
44287DLF	3/4" x 1/2" x 1/2"	0.40	----
44255DLF	1"	0.92	----
44298DLF	1" x 1" x 3/4"	0.58	----
44291DLF	1" x 1" x 1/2"	0.56	----
44295DLF	1" x 1" x 1/4"	0.69	----
44297DLF	1" x 3/4" x 1"	0.58	----
44296DLF	1" x 3/4" x 3/4"	0.46	----
44294DLF	1" x 1/2" x 1"	0.51	----
44256DLF	1-1/4"	1.34	----
44306DLF	1-1/4" x 1-1/4" x 1"	0.91	----
44303DLF	1-1/4" x 1-1/4" x 3/4"	0.93	----
44300DLF	1-1/4" x 1-1/4" x 1/2"	0.93	----
44310DLF	1-1/4" x 1" x 1-1/4"	0.94	----
44302DLF	1-1/4" x 3/4" x 3/4"	0.92	----
44257DLF	1-1/2"	1.82	----
44318DLF	1-1/2" x 1-1/2" x 1"	1.20	----
44316DLF	1-1/2" x 1-1/2" x 3/4"	1.12	----
44258DLF	2"	2.80	----
44334DLF	2" x 2 x 1-1/4"	1.91	----
44330DLF	2" x 2" x 1"	1.70	----
44328DLF	2" x 2" x 3/4"	1.67	----
44259DLF	2-1/2"	4.70	----
44260DLF	3"	6.69	----
44350DLF	3" x 2" x 2"	3.40	----
44261DLF	4"	11.35	----

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

STREET TEES



PART #	SIZE	LBS.	
44364DLF	3/4"	0.46	----

45° Y-BRANCHES



PART #	SIZE	LBS.	
44963DLF	1/2"	0.30	----
44964DLF	3/4"	0.65	----
44965DLF	1"	0.97	----

COUPLINGS



PART #	SIZE	LBS.	
44410DLF	1/8"	0.06	----
44411DLF	1/4"	0.09	----
44412DLF	3/8"	0.13	----
44413DLF	1/2"	0.21	----
44414DLF	3/4"	0.32	----
44415DLF	1"	0.53	----
44416DLF	1-1/4"	0.73	----
44417DLF	1-1/2"	0.97	----
44418DLF	2"	1.51	----
44419DLF	2-1/2"	2.20	----
44420DLF	3"	3.63	----

REDUCING COUPLINGS



PART #	SIZE	LBS.	
44430DLF	1/4" x 1/8"	0.08	----
44431DLF	3/8" x 1/8"	0.10	----
44432DLF	3/8" x 1/4"	0.11	----
44433DLF	1/2" x 1/8"	0.14	----
44434DLF	1/2" x 1/4"	0.16	----
44435DLF	1/2" x 3/8"	0.17	----
44436DLF	3/4" x 1/4"	0.20	----
44437DLF	3/4" x 3/8"	0.23	----
44438DLF	3/4" x 1/2"	0.26	----
44440DLF	1" x 3/8"	0.40	----
44441DLF	1" x 1/2"	0.38	----
44442DLF	1" x 3/4"	0.43	----
44444DLF	1-1/4" x 1/2"	0.60	----
44445DLF	1-1/4" x 3/4"	0.57	----
44446DLF	1-1/4" x 1"	0.65	----
44447DLF	1-1/2" x 1/2"	0.77	----
44448DLF	1-1/2" x 3/4"	0.74	----
44449DLF	1-1/2" x 1"	0.83	----
44450DLF	1-1/2" x 1-1/4"	0.87	----
44458DLF	2" x 1/2"	2.03	----
44451DLF	2" x 3/4"	1.25	----
44452DLF	2" x 1"	1.19	----
44453DLF	2" x 1-1/4"	1.22	----
44454DLF	2" x 1-1/2"	1.28	----
44461DLF	2-1/2" x 1-1/2"	1.94	----
44462DLF	2-1/2" x 2"	2.37	----
44456DLF	3" x 2"	2.46	----
44463DLF	3" x 2-1/2"	3.82	----

Health is the greatest gift, contentment the greatest wealth, faithfulness the best relationship.

- Buddha

USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

CAPS



PART #	SIZE	LBS.	
44470DLF	1/8"	0.03	----
44471DLF	1/4"	0.06	----
44472DLF	3/8"	0.09	----
44473DLF	1/2"	0.13	----
44474DLF	3/4"	0.21	----
44475DLF	1"	0.35	----
44476DLF	1-1/4"	0.52	----
44477DLF	1-1/2"	0.65	----
44478DLF	2"	1.14	----
44480DLF	3"	2.64	----

STANDARD UNIONS



PART #	SIZE	LBS.	
44601DLF	1/4"	0.27	----
44602DLF	3/8"	0.39	----
44603DLF	1/2"	0.44	----
44604DLF	3/4"	0.59	----
44605DLF	1"	0.90	----
44606DLF	1-1/4"	1.33	----
44607DLF	1-1/2"	1.80	----

Keep your face always toward the sunshine - and shadows will fall behind you.

- Walt Whitman

HEX BUSHINGS



PART #	SIZE	LBS.	
44510DLF	1" x 1/4"	0.28	----
44511DLF	1" x 3/8"	0.26	----
44512DLF	1" x 1/2"	0.30	----
44513DLF	1" x 3/4"	0.21	----
44514DLF	1-1/4" x 1/4"	0.34	----
44515DLF	1-1/4" x 3/8"	0.29	----
44516DLF	1-1/4" x 1/2"	0.39	----
44517DLF	1-1/4" x 3/4"	0.43	----
44518DLF	1-1/4" x 1"	0.42	----
44519DLF	1-1/2" x 1/4"	0.29	----
44520DLF	1-1/2" x 3/8"	0.44	----
44521DLF	1-1/2" x 1/2"	0.51	----
44522DLF	1-1/2" x 3/4"	0.54	----
44523DLF	1-1/2" x 1"	0.57	----
44524DLF	1-1/2" x 1-1/4"	0.46	----
44527DLF	2" x 1/2"	1.10	----
44528DLF	2" x 3/4"	0.77	----
44529DLF	2" x 1"	0.77	----
44530DLF	2" x 1-1/4"	0.88	----
44531DLF	2" x 1-1/2"	0.71	----
44532DLF	2-1/2" x 1"	1.19	----
44534DLF	2-1/2" x 1-1/2"	1.15	----
44535DLF	2-1/2" x 2"	1.12	----
44538DLF	3" x 2"	1.82	----
44539DLF	3" x 2-1/2"	2.11	----
44541DLF	4" x 2"	3.86	----

COUNTERSUNK PLUGS



PART #	SIZE	LBS.	
44633DLF	1/2"	0.06	----
44634DLF	3/4"	0.11	----
44635DLF	1"	0.22	----
44636DLF	1-1/4"	0.33	----
44637DLF	1-1/2"	0.50	----
44638DLF	2"	0.88	----
44639DLF	2-1/2"	1.56	----
44640DLF	3"	2.47	----
44641DLF	4"	3.21	----

REGULAR PLUGS



PART #	SIZE	LBS.	
44653DLF	1/2"	0.10	----
44654DLF	3/4"	0.13	----
44655DLF	1"	0.22	----
44656DLF	1-1/4"	0.32	----
44657DLF	1-1/2"	0.47	----
44658DLF	2"	0.68	----
44659DLF	2-1/2"	1.26	----
44660DLF	3"	1.49	----
44662DLF	4"	3.20	----

SOLID PLUGS



PART #	SIZE	LBS.	
44672DLF	3/8"	0.06	----
44673DLF	1/2"	0.12	----
44674DLF	3/4"	0.18	----
44675DLF	1"	0.36	----
44676DLF	1-1/4"	0.63	----
44677DLF	1-1/2"	0.84	----
44678DLF	2"	1.27	----

Once I knew only darkness and stillness... my life was without past or future... but a little word from the fingers of another fell into my hand that clutched at emptiness, and my heart leaped to the rapture of living.

- Helen Keller

USA EXTRA HEAVY FITTINGS

EXTRA HEAVY ELBOWS



PART #	SIZE	LBS.	
43101	1/4"	0.17	----
43102	3/8"	0.29	----
43103	1/2"	0.47	----
43104	3/4"	0.67	----
43105	1"	1.31	----
43106	1-1/4"	1.81	----
43107	1-1/2"	2.60	----
43108	2"	3.54	----
43110	2-1/2"	5.58	----
43109	3"	8.20	----

EXTRA HEAVY STREET ELBOWS



PART #	SIZE	LBS.	
43165	1"	0.85	----
43167	1-1/2"	2.10	----

EXTRA HEAVY 45° ELBOWS



PART #	SIZE	LBS.	
43183	1/2"	0.40	----
43184	3/4"	0.61	----
43185	1"	0.96	----
43186	1-1/4"	1.54	----
43187	1-1/2"	2.10	----
43188	2"	3.21	----
43189	2-1/2"	5.00	----
43190	3"	7.25	----

USA EXTRA HEAVY BRONZE FITTINGS

NIPPLES AND FITTINGS

EXTRA HEAVY TEES



PART #	SIZE	LBS.	
43251	1/4″	0.21	----
43252	3/8″	0.35	----
43253	1/2″	0.64	----
43276	1/2" x 1/2" x 1/4"	0.51	----
43254	3/4″	1.05	----
43255	1″	1.56	----
43298	1" x 1" x 3/4"	1.30	----
43291	1" x 1" x 1/2	1.16	----
43256	1-1/4″	2.43	----
43257	1-1/2″	3.15	----
43258	2″	5.05	----
43259	3″	7.55	----

EXTRA HEAVY COUPLINGS



PART #	SIZE	LBS.	
43411	1/4″	0.15	----
43412	3/8″	0.24	----
43413	1/2″	0.36	----
43414	3/4″	0.57	----
43438	3/4" x 1/2"	0.45	----
43415	1″	0.91	----
43442	1" x 3/4"	0.70	----
43441	1" x 1/2"	0.75	----
43416	1-1/4"	1.37	----
43446	1-1/4" x 1"	1.22	----
43417	1-1/2"	1.79	----
43450	1-1/2" x 1-1/4"	1.67	----
43449	1-1/2" x 1"	1.45	----
43418	2"	2.76	----
43454	2" x 1-1/2"	2.30	----
43419	2-1/2"	4.10	----

EXTRA HEAVY CROSSES



PART #	SIZE	LBS.	
43393	1/2″	0.71	----
43394	3/4″	1.24	----
43395	1″	1.95	----
43396	1-1/4″	2.92	----
43397	1-1/2″	4.06	----
43398	2″	5.75	----

EXTRA HEAVY CAPS



PART #	SIZE	LBS.	
43473	1/2″	0.23	----
43474	3/4″	0.37	----
43475	1″	0.60	----
43476	1-1/4″	1.05	----
43477	1-1/2″	1.24	----
43478	2″	2.09	----

EXTRA HEAVY UNIONS



PART #	SIZE	LBS.	
43601	1/4"	0.35	----
43602	3/8"	0.50	----
43603	1/2"	0.66	----
43604	3/4"	1.05	----
43605	1"	1.65	----
43606	1-1/4"	2.36	----
43607	1-1/2"	2.95	----
43608	2"	3.95	----
43609	2-1/2"	5.65	----
43610	3"	8.80	----

CLEANOUT PLUGS/ DROP EAR ELBOWS

NIPPLES AND FITTINGS



• Southern Code

CAST BRASS SQUARE HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	
970300	1-1/2"	100/200	----
970301	2"	100/200	----
970302	2-1/2"	50/200	----
970303	3"	20/160	----
970304	3-1/2"	20/120	----
970305	4"	10/80	----
970330	5"	10/60	----
970331	6"	10/40	----
970332	8"	5/20	----
970333	10"	1/1	----



• Southern Code

CAST BRASS COUNTERSUNK HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE	
970306	1-1/2"	100/200	----
970307	2"	100/200	----
970308	2-1/2"	100/200	----
970309	3"	50/200	----
970310	3-1/2"	20/160	----
970311	4"	20/120	----
970312	5"	10/60	----
970313	6"	10/40	----
970314	8"	5/20	----



CAST BRASS COUNTERSUNK CLEANOUT W 1/4-20 TAP

PART #	SIZE	BOX/CASE	
970700	1-1/2"	1/1	----
970701	2"	1/1	----
970702	2-1/2"	1/1	----
970703	3"	1/1	----
970704	3-1/2"	1/1	----
970705	4"	1/1	----
970706	5"	1/1	----
970707	6"	1/1	----

DROP EAR ELBOWS

• Lead Free Brass



• Lead Free Bronze



PART #	SWT X FIP	
44840LF	1/2 x 1/2 Bronze	----
44841LF	1/2 x 1/2 Brass	----
44842LF	3/4 x 1/2 Brass	----
44843LF	3/4 x 3/4 Brass	----

• Lead Free Brass



PART #	SWT X SWT	
44844LF	1/2 x 1/2	----



• Lead Free Bronze

PART #	PEX X FIP	
44845LF	1/2 x 1/2	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ STEEL INSERT FITTINGS

NIPPLES AND FITTINGS

BRONZE INSERT FITTINGS

150 PSI Genuine red brass - for plastic pipe

• Not Lead Free

HEX MALE ADAPTERS



(Barb x Male Pipe)

PART #	BARB X MALE	
973925	3/4" x 3/4"	----
973927	1" x 1"	----
973930	1" x 1-1/4"	----
973929	1-1/4" x 1"	----
973928	1-1/4" x 1-1/4"	----
973948	1-1/2" x 1-1/2"	----
973949	2" x 2"	----

BRONZE TEES ALL BARB



PART #	SIZE	
973965	3/4"	----
973966	1"	----
973967	1-1/4"	----

ELBOWS



(Barb x Male Pipe)

PART #	SIZE	
973980	3/4" x 3/4"	----
973981	1" x 3/4"	----
973982	1" x 1"	----

ELBOWS



(Barb x Barb)

PART #	HOSE SIZE	
973975	3/4"	----
973976	1"	----
973977	1-1/4" x 1"	----
973978	1-1/4"	----
973979	1-1/2"	----

STEEL INSERT FITTINGS FOR PLASTIC PIPE

MALE ADAPTER

• Galvanized



(Barb x Male Pipe)

PART #	SIZE	BOX/CASE	
973906	1/2"	25/100	----
973907	3/4"	25/10	----
973908	1"	16/48	----
973909	1-1/4"	12/36	----
973910	1-1/2"	6/36	----
973911	2"	5/25	----
973912	2-1/2"	1/3	----
973913	3"	1/3	----
973914	4"	1/3	----



(Insert x NPT)

PART #	SIZE	
974264	3/4 x 1/2	----
974265	1 x 3/4	----
974266	1-1/4 x 1	----
974267	1-1/2 x 1-1/4	----

COUPLINGS



PART #	SIZE	BOX/CASE	
973900	1/2	30/120	----
973901	3/4	20/100	----
973902	1	20/100	----
973903	1-1/4	16/64	----
973904	1-1/2	12/48	----
973905	2	5/25	----

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STAINLESS STEEL #304



#304 INSERT X MALE PIPE

- For coiled plastic pipe to submersible pump

PART #	SIZE	
973947SS	1/2 x 1/2	----
973925SS	3/4 x 3/4	----
973926SS	1 x 3/4	----
973927SS	1 x 1	----
973930SS	1 x 1-1/4	----
973928SS	1-1/4 x 1-1/4	----
973948SS	1-1/2 x 1-1/2	----
973949SS	2 x 2	----



#304 INSERT X MIP ELBOW

- Hydrant elbow

PART #	SIZE	
973980SS	3/4 x 3/4	----
973982SS	1 x 1	----
973985SS	1-1/4 x 1-1/4	----

LEAD FREE BRONZE INSERT FITTINGS

- NSF Approved
- ANSI 61-8



INSERT X INSERT

PART #	SIZE	
973960LF	1/2	----
973961LF	3/4	----
973962LF	1	----
973963LF	1-1/4	----

- NSF Approved
- ANSI 61-8



INSERT TEE

PART #	SIZE	
973965LF	3/4	----
973966LF	1	----
973967LF	1-1/4	----

- NSF Approved
- ANSI 61-8



INSERT X MALE BRANCH TEE

PART #	SIZE	
973969LF	3/4	----
973970LF	1 x 3/4	----
973971LF	1	----

- NSF Approved
- ANSI 61-8



INSERT X INSERT ELBOW

PART #	SIZE	
973975LF	3/4	----
973976LF	1	----

WELL COUPLINGS



304 SS DROP WELL COUPLINGS STANDARD

PART #	SIZE	
62415DC	1	----
62416DC	1-1/4	----
62417DC	1-1/2	----
62418DC	2	----



HEAVY WALLED SS 304 DROP WELL COUPLINGS

PART #	SIZE	
62415HDDC	1	----
62416HDDC	1-1/4	----
62417HDDC	1-1/2	----
62418HDDC	2	----



#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	
61775	1	----
61776	1-1/4	----
61777	1-1/2	----
61778	2	----

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SCH 40 STAINLESS STEEL NIPPLES

STAINLESS STEEL NIPPLES





SCHEDULE 40 WELDED

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/ SA312.

All stainless steel nipples conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1.

SCHEDULE 80 SEAMLESS

- **SEAMLESS FOR UNRESTRICTED FLOW**
- **USE WITH AIR, WATER, OIL, NATURAL GAS, STEAM**
- **FITTINGS: USE THREADED CLASS 3000 HIGH-PRESSURE STAINLESS STEEL.**
- **ASTM A733** • **ASTM A312** • **ANSI/ ASME B1.20.1**
- **PSI 3000**

304

The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead. must be cold worked to obtain higher tensile strengths.

Because of its ability to withstand the corrosive action of various acids found in fruits, meats, milk, and vegetables,
Type 304 is especially suited for all types of dairy equipment piping and valves, the brewing industry, the citrus and fruit juice industry, and in food processing applications. Also used for the dye tanks, pipelines buckets, dippers, etc. that come in contact with the lormic, acetic, and other organic acids used in the dyeing industry.

In the marine environment, because of it slightly higher strength and wear resistance than type 316 it is also used for nuts, bolts, screws, and other fasteners. It is also used for springs, cogs, and other components where both wear and corrosion resistance is needed.

Both #304 and #316 nipples are NSF/ANSI 372 and NSF/ANSI 61 compliant.

316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304 | #316

1/8" - 27



1/8" DIAMETER
SCH 40 WELDED



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48001	----	X Close (3/4")	25	0.01	49001	----
48002	----	x 1-1/2"	25	0.03	49002	----
48003	----	x 2"	25	0.04	49003	----
48004	----	x 2-1/2"	25	0.05	49004	----
48005	----	x 3"	25	0.06	49005	----
48006	----	x 3-1/2"	25	0.07	49006	----
48007	----	x 4"	25	0.07	49007	----
48008	----	x 4-1/2"	25	0.09	49008	----
48009	----	x 5"	25	0.10	49009	----
48010	----	x 5-1/2"	25	0.11	49010	----
48011	----	x 6"	25	0.12	49011	----
48015	----	x 10"	1	0.19		
		x 12"	1	0.24	49017	----

1/4"-18



1/4" DIAMETER
SCH 40 WELDED



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48020	----	X Close (7/8")	25	0.02	49020	----
48021	----	x 1-1/2"	25	0.04	49021	----
48022	----	x 2"	25	0.06	49022	----
48023	----	x 2-1/2"	25	0.07	49023	----
48024	----	x 3"	25	0.09	49024	----
48025	----	x 3-1/2"	25	0.11	49025	----
48026	----	x 4"	25	0.13	49026	----
48027	----	x 4-1/2"	25	0.14	49027	----
48028	----	x 5"	25	0.16	49028	----
48029	----	x 5-1/2"	25	0.18	49029	----
48030	----	x 6"	25	0.19	49030	----
48031	----	x 7"	1	0.22	49031	----
48032	----	x 8"	1	0.25	49032	----
		x 9"	1	0.31	49033	----
48034	----	x 10"	1	0.35	49034	----
		x 11"	1	0.40	49035	----
48036	----	x 12"	1	0.44	49036	----
		x 14"	1	0.46	49037	----
		x 16"	1	0.47	49038	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304



3/8"-18

3/8" DIAMETER
SCH 40 WELDED

#316



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48040	----	X Close (1")	25	0.03	49040	----
48041	----	x 1-1/2"	25	0.06	49041	----
48042	----	x 2"	25	0.07	49042	----
48043	----	x 2-1/2"	25	0.10	49043	----
48044	----	x 3"	25	0.12	49044	----
48045	----	x 3-1/2"	25	0.15	49045	----
48046	----	x 4"	25	0.17	49046	----
48047	----	x 4-1/2"	25	0.19	49047	----
48048	----	x 5"	25	0.22	49048	----
48049	----	x 5-1/2"	25	0.23	49049	----
48050	----	x 6"	25	0.26	49050	----
48052	----	x 8"	1	0.34	49052	----
48053	----	x 9"	1			
48054	----	x 10"	1	0.43	49054	----
48056	----	x 12"	1			



1/2" - 14

1/2" DIAMETER
SCH 40 WELDED



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48060	----	X Close 1-1/8"	25	0.05	49060	----
48061	----	x 1-1/2"	25	0.07	49061	----
48062	----	x 2"	25	0.10	49062	----
48063	----	x 2-1/2"	25	0.14	49063	----
48064	----	x 3"	25	0.18	49064	----
48065	----	x 3-1/2"	25	0.20	49065	----
48066	----	x 4"	25	0.25	49066	----
48067	----	x 4-1/2"	25	0.28	49067	----
48068	----	x 5"	25	0.31	49068	----
48069	----	x 5-1/2"	25	0.34	49069	----
48070	----	x 6"	25	0.39	49070	----
48071	----	x 7"	1	0.41		
48072	----	x 8"	1	0.52	49072	----
48073	----	x 9"	1	0.54		
48074	----	10"	1	0.58	49074	----
48075	----	x 11"	1	0.64		
48076	----	x 12"	1	0.69		

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For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304



3/4" - 14

3/4" DIAMETER
SCH 40 WELDED

#316



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48080	----	X Close (1-3/8")	25	0.08	49080	----
48081	----	x 1-1/2"	25	0.13	49081	----
48082	----	x 2"	25	0.14	49082	----
48083	----	x 2-1/2"	25	0.17	49083	----
48084	----	x 3"	25	0.22	49084	----
48085	----	x 3-1/2"	25	0.27	49085	----
48086	----	x 4"	25	0.32	49086	----
48087	----	x 4-1/2"	25	0.38	49087	----
48088	----	x 5"	25	0.40	49088	----
48089	----	x 5-1/2"	25	0.42	49089	----
48090	----	x 6"	25	0.48	49090	----
48091	----	x 7"	1	0.45		
48092	----	x 8"	1	0.67	49092	----
48094	----	x 10"	1	0.94	49094	----
48096	----	x 12"	1	1.03		



1" - 11 1/2

1" DIAMETER
SCH 40 WELDED



PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48100	----	X Close (1-1/2")	25	0.13	49100	----
48101	----	x 2"	25	0.20	49101	----
48102	----	x 2-1/2"	25	0.25	49102	----
48103	----	x 3"	25	0.33	49103	----
48104	----	x 3-1/2"	25	0.40	49104	----
48105	----	x 4"	25	0.47	49105	----
48106	----	x 4-1/2"	25	0.53	49106	----
48107	----	x 5"	25	0.55	49107	----
48108	----	x 5-1/2"	25	0.60	49108	----
48109	----	x 6"	25	0.71	49109	----
48110	----	x 7"	1	0.57	49110	----
48111	----	x 8"	1	1.02	49111	----
48113	----	x 10"	1	1.16	49113	----
48115	----	x 12"	1	1.31		

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SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS



1 1/4" - 11 1/2



1-1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48120	----	X Close (1-5/8")	10	0.17	49120	----
48121	----	x 2"	10	0.23	49121	----
48122	----	x 2-1/2"	10	0.35	49122	----
48123	----	x 3"	10	0.46	49123	----
48124	----	x 3-1/2"	10	0.52	49124	----
48125	----	x 4"	10	0.65	49125	----
48126	----	x 4-1/2"	10	0.53	49126	----
48127	----	x 5"	10	0.60	49127	----
48128	----	x 5-1/2"	10	0.61	49128	----
48129	----	x 6"	10	0.71	49129	----
48131	----	x 8"	1	1.34		
48135	----	x 12"	1	1.54		



1-1/2" - 11 1/2



1-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48140	----	X Close x 1-3/4"	10	0.25	49140	----
48141	----	x 2"	10	0.32	49141	----
48142	----	x 2-1/2"	10	0.41	49142	----
48143	----	x 3"	10	0.52	49143	----
48144	----	x 3-1/2"	10	0.62	49144	----
48145	----	x 4"	10	0.73	49145	----
48146	----	x 4-1/2"	10	0.86	49146	----
48147	----	x 5"	10	0.95	49147	----
48148	----	x 5-1/2"	10	1.01	49148	----
48149	----	x 6"	10	1.19	49149	----
48151	----	x 8"	1	1.63	49151	----
48152	----	x 9"	1	1.88		
48153	----	x 10"	1	2.28	49153	----
48155	----	x 12"	1	2.43		

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS





2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48160	----	X Close (2")	10	0.37	49160	----
48161	----	x 2-1/2"	10	0.54	49161	----
48162	----	x 3"	10	0.65	49162	----
48163	----	x 3-1/2"	10	0.88	49163	----
48164	----	x 4"	10	1.02	49164	----
48165	----	x 4-1/2"	10	1.16	49165	----
48166	----	x 5"	10	1.29	49166	----
48167	----	x 5-1/2"	10	1.46	49167	----
48168	----	x 6"	10	1.57	49168	----
48169	----	x 7"	1	1.92	49169	----
48170	----	x 8"	1	2.01	49170	----
48171	----	x 9"	1	2.55		
48172	----	x 10"	1	2.69		
48174	----	x 12"	1	2.89		

2-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	
48180	X Close (2-1/2")	10	0.64	----
48181	x 3"			----
48187	x 6"	1	2.37	----
48193	x 12"	1	4.85	----



3" DIAMETER
SCH 40 WELDED

PART # 304 S.S.		LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
48200	----	X Close (2-5/8")	10	0.95	49200	----
48201	----	x 3"	10	1.32	49201	----
48203	----	x 4"	10	1.66	49203	----
48205	----	x 5"	5	1.72	49205	----
48207	----	x 6"	5	1.88	49207	----
48209	----	x 8"	1	1.91	49209	----
48213	----	x 12"	1	2.12	49213	----



4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48220	----	X Close (2-7/8")	8	1.15	49220	----
		x 4"	1	2.98	49223	----
48227	----	x 6"	1	4.10	49234	----
		x 8"	1	5.95	49236	----
		x 12"	1	9.25	49240	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL FITTINGS



150# 304 & 316 Stainless Steel Fittings

Our high quality standard pattern 150lb rated stainless steel threaded fittings are manufactured to the highest standards. All stainless steel fittings are monitored by our quality control personnel for strict compliance with applicable standards and specifications.

These stainless steel pipe fittings are excellent for uses that involve chemicals or liquids that may be corrosive. Along with fighting corrosion, a stainless steel pipe fitting will prevent contamination making it useful to many professionals.

- Use with air, water, oil, natural gas, steam
- NPT and FNPT threads conform to ASME B1.20.1
- Maximum Pressure: 300 psi @ 72 F;150 psi @ 366 F for steam
- Maximum Steam Pressure: 150 psi
- Material Conforms to ASTM A-351. Class 150 Pressure Ratings
- Manufacturing facility is ISO 9001:2008
- 304 Stainless Steel is economically priced, chromium-nickel material that offers very good corrosion resistance. 316 Stainless Steel has higher nickel content and contains molybdenum for even better corrosion resistance.

HIGH PRESSURE 1000# BARSTOCK



1000#

- Stainless bar stock dimensions conform to MSS SP-114
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

HIGH PRESSURE 3000# FORGED

A182 and ANSI/ASME B16.11.



3000#

- Use with air, water, oil, natural gas, steam
- Maximum Pressure:

Type 304 SS: 2,570 psi @ 72°F;
1,965 psi @ 350°F for steam
Type 316 SS: 3,000 psi @ 72°F
2810 psi @ 350°F for steam

- Pipe Nipples and Pipe: Use threaded Schedule 80 thickwall stainless steel

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

90° ELBOW
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62100	----	1/8"	25	0.06	63100	----
62101	----	1/4"	25	0.06	63101	----
62102	----	3/8"	25	0.11	63102	----
62103	----	1/2"	25	0.13	63103	----
62104	----	3/4"	25	0.20	63104	----
62105	----	1"	10	0.33	63105	----
62106	----	1-1/4"	10	0.55	63106	----
62107	----	1-1/2"	5	0.77	63107	----
62108	----	2"	5	1.10	63108	----
62109	----	2-1/2"	1	2.09	63109	----
62110	----	3"	1	2.84	63110	----
62112	----	4"	1	5.00	63112	----

90° STREET ELBOW
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62160	----	1/8"	25	0.04	63160	----
62161	----	1/4"	25	0.07	63161	----
62162	----	3/8"	25	0.09	63162	----
62163	----	1/2"	25	0.15	63163	----
62164	----	3/4"	25	0.24	63164	----
62165	----	1"	10	0.31	63165	----
62166	----	1-1/4"	10	0.51	63166	----
62167	----	1-1/2"	5	0.84	63167	----
62168	----	2"	5	1.26	63168	----
62169	----	3"	1	4.16	63170	----
		4"	1	7.61	63171	----

45° ELBOW
304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62180	----	1/8"	25	0.04	63180	----
62181	----	1/4"	25	0.07	63181	----
62182	----	3/8"	25	0.09	63182	----
62183	----	1/2"	25	0.13	63183	----
62184	----	3/4"	25	0.20	63184	----
62185	----	1"	10	0.33	63185	----
62186	----	1-1/4"	10	0.49	63186	----
62187	----	1-1/2"	5	0.66	63187	----
62188	----	2"	5	1.14	63188	----
62189	----	2-1/2"	1	2.82		
62190	----	3"	1	2.91	63190	----
62191	----	4"	1	5.05	63192	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

TEE
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62250	----	1/8"	25	0.07	63250	----
62251	----	1/4"	25	0.07	63251	----
62252	----	3/8"	25	0.11	63252	----
62253	----	1/2"	25	0.20	63253	----
62254	----	3/4"	25	0.29	63254	----
62255	----	1"	10	0.42	63255	----
62256	----	1-1/4"	5	0.66	63256	----
62257	----	1-1/2"	5	0.99	63257	----
62258	----	2"	3	1.43	63258	----
62259	----	2-1/2"	1	1.43		
62260	----	3"	1	3.66	63260	----
		4"	1	7.19	63261	----

CROSS
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
		1/8"	25	0.06	63390	----
62391	----	1/4"	25	0.09	63391	----
62392	----	3/8"	25	0.13	63392	----
62393	----	1/2"	25	0.29	63393	----
62394	----	3/4"	10	0.44	63394	----
62395	----	1"	10	0.74	63395	----
62396	----	1-1/4"	5	1.25	63396	----
62397	----	1-1/2"	5	1.53	63397	----
62398	----	2"	1	2.28	63398	----
		3"	1	5.46	63400	----
		4"	1	9.41	63401	----

HEX NIPPLE
304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62720	----	1/8"	1	0.02	63720	----
62721	----	1/4"	1	0.04	63721	----
62722	----	3/8"	1	0.07	63722	----
62723	----	1/2"	1	0.11	63723	----
62724	----	3/4"	1	0.18	63724	----
62725	----	1"	1	0.22	63725	----
62726	----	1-1/4"	1	0.37	63726	----
62727	----	1-1/2"	1	0.46	63727	----
62728	----	2"	1	0.61	63728	----

REDUCING HEX NIPPLE
304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62740	----	1/4" x 1/8"	1	0.04	63740	----
62741	----	3/8" x 1/8"	1	0.07	63741	----
62742	----	3/8" x 1/4"	1	0.07	63742	----
62744	----	1/2" x 1/4"	1	0.09	63744	----
62745	----	1/2" x 3/8"	1	0.11	63745	----
62747	----	3/4" x 1/4"	1	0.15	63747	----
62748	----	3/4" x 3/8"	1	0.15	63748	----
62749	----	3/4" x 1/2"	1	0.15	63749	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

COUPLING
304 & 316 150#



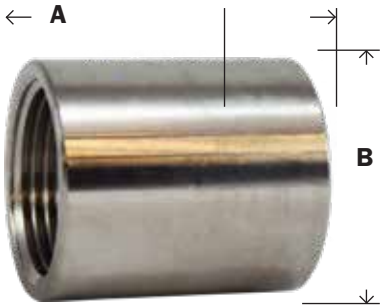
PART # 304 S.S		SIZE*	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62410	----	1/8"	25	0.03	63410	----
62411	----	1/4"	25	0.06	63411	----
62412	----	3/8"	25	0.07	63412	----
62413	----	1/2"	25	0.13	63413	----
62414	----	3/4"	25	0.18	63414	----
62415	----	1"	25	0.24	63415	----
62416	----	1-1/4"	10	0.44	63416	----
62417	----	1-1/2"	10	0.51	63417	----
62418	----	2"	5	0.79	63418	----
62419	----	2-1/2"	1	1.28	63419	----
62420	----	3"	1	1.87	63420	----
62421	----	4"	1	2.80	63421	----

REDUCING COUPLING
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62430	----	1/4" x 1/8"	25	0.04	63430	----
62431	----	3/8" x 1/8"	25	0.04	63431	----
62432	----	3/8" x 1/4"	25	0.04	63432	----
62433	----	1/2" x 1/8"	25	0.09	63433	----
62434	----	1/2" x 1/4"	25	0.09	63434	----
62435	----	1/2" x 3/8"	25	0.09	63435	----
62455	----	3/4" x 1/8"	25	0.13	63455	----
62436	----	3/4" x 1/4"	25	0.11	63436	----
62437	----	3/4" x 3/8"	25	0.13	63437	----
62438	----	3/4" x 1/2"	25	0.15	63438	----
		1" x 1/4"	25	0.25	63459	----
62440	----	1" x 3/8"	25	0.22	63440	----
62441	----	1" x 1/2"	25	0.24	63441	----
62442	----	1" x 3/4"	25	0.24	63442	----
62445	----	1-1/4" x 3/4"	10	0.33	63445	----
62446	----	1-1/4" x 1"	10	0.35	63446	----
62447	----	1-1/2" x 1/2"	10	0.40	63447	----
62448	----	1-1/2" x 3/4"	10	0.42	63448	----
62449	----	1-1/2" x 1"	10	0.44	63449	----
62450	----	1-1/2" x 1-1/4"	10	0.46	63450	----
62451	----	2" x 3/4"				
62452	----	2" x 1"	5	0.57	63452	----
62453	----	2" x 1-1/4"	5	0.62	63453	----
62454	----	2" x 1-1/2"	5	0.62	63454	----
62428	----	3" x 1"	1	1.82		
62456	----	3" x 2"	1	2.25		

OD MACHINED COUPLING
304 & 316 150#



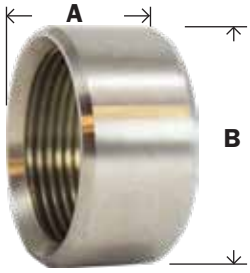
PART # 304 S.S	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62410B	----	1/8"	0.76	0.56	25	0.04	63410B	----
62411B	----	1/4"	0.94	0.71	25	0.04	63411B	----
62412B	----	3/8"	0.98	0.84	25	0.07	63412B	----
62413B	----	1/2"	1.33	1.01	25	0.09	63413B	----
62414B	----	3/4"	1.41	1.27	25	0.16	63414B	----
62415B	----	1"	1.69	1.54	10	0.21	63415B	----
62416B	----	1-1/4"	1.93	1.90	10	0.31	63416B	----
62417B	----	1-1/2"	1.93	2.16	5	0.41	63417B	----
62418B	----	2"	1.96	2.66	5	0.68	63418B	----
62420B	----	3"	3.23	3.76	1			

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304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HALF COUPLING
304 & 316 150#



PART # 304 S.S	LIST	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62770		1/8"						
62771	----	1/4"	0.39	0.70	25	0.02	63771	----
62772	----	3/8"	0.45	0.82	25	0.02	63772	----
62773	----	1/2"	0.57	1.02	25	0.09	63773	----
62774	----	3/4"	0.67	1.22	25	0.11	63774	----
62775	----	1"	0.79	1.47	25	0.13	63775	----
62776	----	1-1/4"	0.86	1.88	10	0.24	63776	----
62777	----	1-1/2"	0.94	2.10	10	0.26	63777	----
62778	----	2"	1.06	2.60	5	0.44	63778	----

UNION
304 & 316 150#

- Stainless Steel Seat



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62600	----	1/8"	25	0.09	63600	----
62601	----	1/4"	25	0.13	63601	----
62602	----	3/8"	25	0.22	63602	----
62603	----	1/2"	25	0.26	63603	----
62604	----	3/4"	25	0.46	63604	----
62605	----	1"	10	0.60	63605	----
62606	----	1-1/4"	5	0.90	63606	----
62607	----	1-1/2"	5	1.10	63607	----
62608	----	2"	1	1.81	63608	----
62610	----	3"	1	3.40	63610	----

CAP - CAST
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62470	----	1/8"	25	0.02	63470	----
62471	----	1/4"	25	0.02	63471	----
62472	----	3/8"	25	0.04	63472	----
62473	----	1/2"	25	0.07	63473	----
62474	----	3/4"	25	0.11	63474	----
62475	----	1"	10	0.18	63475	----
62476	----	1-1/4"	10	0.29	63476	----
62477	----	1-1/2"	10	0.40	63477	----
62478	----	2"	10	0.60	63478	----
62480	----	3"	1	1.28	63480	----
62481	----	4"	1	1.54		

HEX CAP - BARSTOCK
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62075	----	1/8"	25	0.04	63075	----
62076	----	1/4"	25	0.09	63076	----
62077	----	3/8"	25	0.11	63077	----
62078	----	1/2"	25	0.13	63078	----
62079	----	3/4"	25	0.22	63079	----
62080	----	1"	10	0.22	63080	----
62081	----	1-1/4"	10	0.29	63081	----
62082	----	1-1/2"	5	0.40	63082	----
62083	----	2"	5	0.49	63083	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HEX BUSHING
304 & 316 150#



PART # 304 S.S		SIZE M X F	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62500	----	1/4″ x 1/8″	25	0.04	63500	----
62501	----	3/8″ x 1/8″	25	0.04	63501	----
62502	----	3/8″ x 1/4″	25	0.04	63502	----
62503	----	1/2″ x 1/8″	25	0.09		
62504	----	1/2″ x 1/4″	25	0.09	63504	----
62505	----	1/2″ x 3/8″	25	0.11	63505	----
62506	----	3/4" x 1/8"	25	0.13	63506	----
62507	----	3/4″ x 1/4″	25	0.15	63507	----
62508	----	3/4″ x 3/8″	25	0.15	63508	----
62509	----	3/4″ x 1/2″	25	0.15	63509	----
62557	----	1" x 1/8"	25	0.27		
62510	----	1" x 1/4"	25	0.22	63510	----
62511	----	1" x 3/8"	25	0.24	63511	----
62512	----	1″ x 1/2″	25	0.24	63512	----
62513	----	1″ x 3/4″	25	0.24	63513	----
62515	----	1-1/4″ x 3/8″	25	0.37		
62516	----	1-1/4″ x 1/2″	25	0.37	63516	----
62517	----	1-1/4″ x 3/4″	25	0.37	63517	----
62518	----	1-1/4″ x 1″	25	0.37	63518	----
62521	----	1-1/2″ x 1/2″	25	0.44	63521	----
62522	----	1-1/2″ x 3/4″	25	0.46	63522	----
62532	----	1-1/2″ x 1″	25	0.49	63523	----
62524	----	1-1/2″ x 1-1/4″	25	0.46	63524	----
62559	----	2" x 1/4"	10	0.95		
62527	----	2″ x 1/2″	10	0.66	63527	----
62528	----	2″ x 3/4″	10	0.66	63528	----
62529	----	2″ x 1″	10	0.66	63529	----
62530	----	2″ x 1-1/4″	10	0.68	63530	----
62531	----	2″ x 1-1/2″	10	0.68	63531	----
62536	----	2-1/2" x 1"	5	1.70		
62534	----	2-1/2″ x 1-1/2″	5	1.23	63534	----
62535	----	2-1/2″ x 2″	5	1.21	63535	----
		3" x 1"	5	2.20	63550	----
62537	----	3" x 1-1/2"	5	1.97	63537	----
62538	----	3″ x 2″	5	1.72	63538	----
62539	----	3″ x 2-1/2″	5	1.81		
		4" x 1-1/2"	5	3.92	63540	----
		4" x 2"	1	3.72	63541	----
62543	----	4″ x 3″	1	2.43	63543	----

• SEE PAGE 13 FOR STAINLESS STEEL BULKHEAD FITTINGS

• SEE PAGE 268 FOR STAINLESS STEEL:

- BARBED FOR PLASTIC PIPE
- WELL COUPLINGS
- MERCHANT COUPLINGS

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

HEX LOCKNUT
304 & 316 150#

• Straight Thread



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62700	----	1/8"	25	0.02		
62701	----	1/4"	25	0.05	63701	----
62702	----	3/8"	25	0.06	63702	----
62703	----	1/2"	25	0.07	63703	----
62704	----	3/4"	25	0.11	63704	----
62705	----	1"	25	0.15	63705	----
62706	----	1-1/4"	25	0.22	63706	----
62707	----	1-1/2"	25	0.29	63707	----
62708	----	2"	10	0.35	63708	----

CORED SQUARE HEAD PLUG
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62670	----	1/8"	25	0.02	63670	----
62671	----	1/4"	25	0.03	63671	----
62672	----	3/8"	25	0.04	63672	----
62653	----	1/2"	25	0.06	63653	----
62654	----	3/4"	25	0.13	63654	----
62655	----	1"	25	0.20	63655	----
62656	----	1-1/4"	25	0.32	63656	----
62657	----	1-1/2"	10	0.41	63657	----
62658	----	2"	10	0.65	63658	----
62659	----	2-1/2"	1	1.04		
62660	----	3"	1	0.88		

CORED HEX HEAD PLUG
304 & 316 150#



PART # 304 S.S		SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
62630	----	1/8"	25	0.02	63630	----
62631	----	1/4"	25	0.02	63631	----
62632	----	3/8"	25	0.04	63632	----
62633	----	1/2"	25	0.07	63633	----
62634	----	3/4"	25	0.11	63634	----
62635	----	1"	25	0.20	63635	----
62636	----	1-1/4"	25	0.31	63636	----
62637	----	1-1/2"	10	0.44	63637	----
62638	----	2"	10	0.65	63638	----
		4"	1	2.77	63641	----

HOSE NIPPLE
304 & 316 150#



HOSE BARB X MALE PIPE

PART # 304 S.S		HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	
73951	----	1/4"	1	0.04	973951	----
73952	----	3/8"	1	0.07	973952	----
73953	----	1/2"	1	0.13	973953	----
73954	----	3/4"	1	0.20	973954	----
73955	----	1"	1	0.33	973955	----
73956	----	1-1/4"	1	0.47	973956	----
73957	----	1-1/2"	1	0.67	973957	----
73958	----	2"	1	0.88	973958	----
73959	----	2-1/2"	1	1.45	973959	----
73960	----	3"	1	1.94	973990	----
73961	----	4"	1	3.57	973991	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

REDUCING HOSE NIPPLE
304 150#



HOSE BARB X MALE PIPE

PART # 304 S.S	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	
73970	1/4" x 1/8"	1	0.04	----
73971	3/8" x 1/4"	1	0.07	----
73972	1/2" x 3/8"	1	0.13	----
73973	1/2" x 1/4"	1	0.13	----
73974	3/4" x 1/2"	1	0.20	----
73975	1" x 3/4"	1	0.33	----
73976	1" x 1/2"	1	0.33	----
73977	1-1/4" x 1"	1	0.46	----
73979	1-1/2" x 1-1/4"	1	0.66	----
73980	1-1/2" x 1"	1	0.66	----
73981	2" x 1-1/2"	1	0.88	----
73982	2" x 1-1/4"	1	0.88	----

SOLID HEX HEAD PLUG
316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63660	1/8"	25	0.04	----
63661	1/4"	25	0.06	----
63662	3/8"	25	0.08	----
63663	1/2"	25	0.12	----
63664	3/4"	25	0.15	----
63665	1"	25	0.24	----

HEX SOCKET PLUG - BARSTOCK
316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63759	1/16"	1	0.03	----
63760	1/8 "	1	0.05	----
63761	1/4 "	1	0.07	----
63762	3/8 "	1	0.10	----
63763	1/2 "	1	0.14	----
63764	3/4 "	1	0.21	----
63765	1"	1	0.24	----

SOLID SQUARE HEAD PLUG
316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	
63680	1/8"	25	0.04	----
63681	1/4"	25	0.04	----
63682	3/8"	25	0.05	----
63683	1/2"	25	0.06	----
63684	3/4"	25	0.12	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED STEEL NIPPLES

Product Specifications

Welded steel pipe nipples both galvanized and black in diameters ranging from 1/8" up to 4" in lengths from close to 12" and cut-pipe up to 120". -200°-150° Temp Rating.

Technical Specifications

Standards: Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe: Complies with ASTM A-53 mill tested schedule 40 and 80 for both Welded & Seamless Meets ANSI B36.1.

Galvanized: Zinc coating applied by hot dipped. Galvanized complying with ASTM A-123, NSF approved, RoHS compliant.

Black: Protected against oxidation with varnish coating.

Cutting Procedure: All pipe is roller cut. A visual inspection of seams, excessive galvanizing, mid-welds, poor galvanizing, bends, roundness, under and over weight of the pipe is made at the time it is cut. This is done for every length of pipe. Pipe lengths are cut to a tolerance of + or - 1/16" of the actual length.

Threading Procedure:

All pipe is chaser thread cut to American Standard Tapered Pipe Thread standards. This is 3/4" taper per foot. Pipe is visually inspected for roundness of threads and other visual faults as it is removed from the threading machine.

SCHEDULE 80 XXS SEAMLESS



XXS SEAMLESS



- ASTM A106 Grade B Seamless Pipe
- ASTM A 53
- WWN 351
- Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 Specification

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39



1/8" DIAMETER
SCH 40 WELDED



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56001	----	X Close (3/4")	50/600	0.02	57001	----
56002	----	x 1-1/2"	50/600	0.03	57002	----
56003	----	x 2"	50/500	0.04	57003	----
56004	----	x 2-1/2"	100/400	0.06	57004	----
56005	----	x 3	50/300	0.07	57005	----
56006	----	x 3-1/2"	50/300	0.08	57006	----
56007	----	x 4"	50/300	0.09	57007	----
56008	----	x 4-1/2"	50/300	0.10	57008	----
56009	----	x 5"	50/300	0.11	57009	----
56010	----	x 5-1/2"	50/300	0.12	57010	----
56011	----	x 6"	50/300	0.13	57011	----
56012	----	x 7"	50/300	0.15	57012	----
56013	----	x 8"	50/300	0.18	57013	----
56014	----	x 9"	50/300	0.21	57014	----
56015	----	x 10"	50/300	0.25	57015	----
56017	----	x 12"	50/300	0.29	57017	----

1/4"-18

Wall Thickness 0.068 - GradeB - Test Pressure 700 PSI - Thread Length 0.39



1/4" DIAMETER
SCH 40 WELDED



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56020	----	X Close (7/8")	50/600	0.04	57020	----
56021	----	x 1-1/2"	125/500	0.06	57021	----
56022	----	x 2"	125/500	0.06	57022	----
56023	----	x 2-1/2"	100/400	0.08	57023	----
56024	----	x 3	50/300	0.10	57024	----
56025	----	x 3-1/2"	50/300	0.12	57025	----
56026	----	x 4"	50/300	0.14	57026	----
56027	----	x 4-1/2"	50/300	0.17	57027	----
56028	----	x 5"	50/300	0.19	57028	----
56029	----	x 5-1/2"	50/300	0.21	57029	----
56030	----	x 6"	50/300	0.23	57030	----
56031	----	x 7"	50/100	0.27	57031	----
56032	----	x 8"	50/100	0.31	57032	----
56033	----	x 9"	50/100	0.35	57033	----
56034	----	x 10"	50/100	0.40	57034	----
56035	----	x 11"	50/100	0.44	57035	----
56036	----	x 12"	50/100	0.48	57036	----
56038	----	x 18"	50/100	0.54		

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS



3/8" DIAMETER

SCH 40 WELDED

Wall Thickness 0.091 - Grade B - Test Pressure 700 PSI - Thread Length 0.6



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56040	----	X Close (1")	50/600	0.05	57040	----
56041	----	x 1-1/2"	125/500	0.07	57041	----
56042	----	x 2"	125/500	0.08	57042	----
56043	----	x 2-1/2"	100/400	0.11	57043	----
56044	----	x 3"	50/300	0.13	57044	----
56045	----	x 3-1/2"	50/300	0.16	57045	----
56046	----	x 4"	50/300	0.19	57046	----
56047	----	x 4-1/2"	50/200	0.21	57047	----
56048	----	x 5"	50/150	0.24	57048	----
56049	----	x 5-1/2"	50/150	0.27	57049	----
56050	----	x 6"	50/100	0.29	57050	----
56051	----	x 7"	50/100	0.35	57051	----
56052	----	x 8"	50/100	0.40	57052	----
56053	----	x 9"	50/100	0.45	57053	----
56054	----	x 10"	50/100	0.51	57054	----
56055	----	x 11"	50/100	0.56	57055	----
56056	----	x 12"	50/100	0.62	57056	----
56430	----	x 18"	5/10	0.71	57430	----
		x 24"	1/1	1.02	57431	----



1/2" DIAMETER

SCH 40 WELDED

Wall Thickness 0.109 - Grade B - Test Pressure 700 PSI - Thread Length 0.78



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56060	----	X Close (1-1/8")	50/600	0.08	57060	----
56061	----	x 1-1/2"	125/500	0.08	57061	----
56062	----	x 2"	125/500	0.12	57062	----
56063	----	x 2-1/2"	100/400	0.15	57063	----
56064	----	x 3"	50/300	0.19	57064	----
56065	----	x 3-1/2"	50/300	0.23	57065	----
56066	----	x 4"	50/300	0.27	57066	----
56067	----	x 4-1/2"	50/200	0.30	57067	----
56068	----	x 5"	50/150	0.34	57068	----
56069	----	x 5-1/2"	50/150	0.38	57069	----
56070	----	x 6"	50/100	0.42	57070	----
56071	----	x 7"	50/100	0.49	57071	----
56072	----	x 8"	50/100	0.57	57072	----
56073	----	x 9"	50/100	0.65	57073	----
56074	----	x 10"	50/100	0.72	57074	----
56075	----	x 11"	50/100	0.80	57075	----
56076	----	x 12"	40/80	0.87	57076	----
56240	----	x 18"	1/3	1.29	57240	----
56241	----	x 24"	1/3	1.74	57241	----
56242	----	x 30"	1/3	2.16	57242	----
56243	----	x 36"	1/3	2.61	57243	----
56244	----	x 42"	1/3	3.03	57244	----
56245	----	x 48"	1/3	3.48	57245	----
56246	----	x 60"	1/3	4.35	57246	----
56247	----	x 72"	1/3	5.22	57247	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

3/4" DIAMETER
SCH 40 WELDED



Wall Thickness 0.113 - Grade B - Test Pressure 700 PSI - Thread Length 0.79



Part # Galv		Length	Box/Case	Approx. Wt. Lbs.	Part # Black	
56080	----	X Close (1-3/8")	50/300	0.13	57080	----
56081	----	x 1-1/2"	125/250	0.10	57081	----
56082	----	x 2"	125/250	0.15	57082	----
56083	----	x 2-1/2"	50/250	0.20	57083	----
56084	----	x 3"	50/200	0.24	57084	----
56085	----	x 3-1/2"	50/150	0.29	57085	----
56086	----	x 4"	50/150	0.34	57086	----
56087	----	x 4-1/2"	50/150	0.39	57087	----
56088	----	x 5"	50/150	0.43	57088	----
56089	----	x 5-1/2"	60/120	0.48	57089	----
56090	----	x 6"	50/100	0.53	57090	----
56091	----	x 7"	50/100	0.63	57091	----
56092	----	x 8"	50/100	0.72	57092	----
56093	----	x 9"	40/80	0.82	57093	----
56094	----	x 10"	40/80	0.91	57094	----
56095	----	x 11"	30/60	1.01	57095	----
56096	----	x 12"	30/60	1.10	57096	----
56250	----	x 18"	1/3	1.63	57250	----
56251	----	x 24"	1/3	2.20	57251	----
56252	----	x 30"	1/3	2.73	57252	----
56253	----	x 36"	1/3	3.30	57253	----
56254	----	x 42"	1/3	3.83	57254	----
56255	----	x 48"	1/3	4.40	57255	----
56256	----	x 60"	1/3	5.50	57256	----
56257	----	x 72"	1/3	6.60	57257	----

I hated every minute of training, but I said, 'Don't quit. Suffer now and live the rest of your life as a champion.'

- Muhammad Ali

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BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS



1" DIAMETER
SCH 40 WELDED

Wall Thickness 0.133 - Grade B - Test Pressure 700 PSI - Thread Length 0.98



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56100	----	X Close (1-1/2")	50/200	0.16	57100	----
56101	----	x 2"	50/150	0.23	57101	----
56102	----	x 2-1/2"	50/150	0.29	57102	----
56103	----	x 3"	50/100	0.36	57103	----
56104	----	x 3-1/2"	50/100	0.43	57104	----
56105	----	x 4"	50/100	0.50	57105	----
56106	----	x 4-1/2"	50/100	0.56	57106	----
56107	----	x 5"	50/100	0.63	57107	----
56108	----	x 5-1/2"	50/100	0.70	57108	----
56109	----	x 6"	40/80	0.77	57109	----
56110	----	x 7"	25/50	0.90	57110	----
56111	----	x 8"	25/50	1.03	57111	----
56112	----	x 9"	15/30	1.17	57112	----
56113	----	x 10"	15/30	1.30	57113	----
56114	----	x 11"	15/30	1.44	57114	----
56115	----	x 12"	15/30	1.57	57115	----
56260	----	x 18"	1/3	2.34	57260	----
56261	----	x 24"	1/3	3.14	57261	----
56262	----	x 30"	1/3	3.91	57262	----
56263	----	x 36"	1/3	4.71	57263	----
56264	----	x 42"	1/3	5.48	57264	----
56265	----	x 48"	1/3	6.28	57265	----
56266	----	x 60"	1/3	7.85	57266	----
56267	----	x 72"	1/3	9.42	57267	----

Put your heart, mind, and soul into even your smallest acts. This is the secret of success.

- Swami Sivananda

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BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS



1-1/4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.14 - Grade B - Test Pressure 1300 PSI - Thread Length 1.01



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56120	----	X Close (1-5/8")	50/100	0.25	57120	----
56121	----	x 2"	50/100	0.32	57121	----
56122	----	x 2-1/2"	50/100	0.41	57122	----
56123	----	x 3"	50/100	0.50	57123	----
56124	----	x 3-1/2"	30/60	0.60	57124	----
56125	----	x 4"	30/60	0.69	57125	----
56126	----	x 4-1/2"	30/60	0.78	57126	----
56127	----	x 5"	25/50	0.87	57127	----
56128	----	x 5-1/2"	25/50	0.96	57128	----
56129	----	x 6"	25/50	1.06	57129	----
56130	----	x 7"	15/30	1.24	57130	----
56131	----	x 8"	15/30	1.42	57131	----
56132	----	x 9"	15/30	1.61	57132	----
56133	----	x 10"	15/30	1.79	57133	----
56134	----	x 11"	10/20	1.97	57134	----
56135	----	x 12"	10/20	2.16	57135	----
56270	----	x 18"	1/3	3.22	57270	----
56271	----	x 24"	1/3	4.32	57271	----
56272	----	x 30"	1/3	3.22	57272	----
56273	----	x 36"	1/3	6.48	57273	----
56275	----	x 48"			57275	----



1-1/2" DIAMETER
SCH 40 WELDED

Wall Thickness 0.145 - Grade B - Test Pressure 1300 PSI - Thread Length 1.03



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56140	----	X Close (1-3/4")	50/100	0.31	57140	----
56141	----	x 2"	40/80	0.37	57141	----
56142	----	x 2-1/2"	40/80	0.47	57142	----
56143	----	x 3"	40/80	0.58	57143	----
56144	----	x 3-1/2"	25/50	0.68	57144	----
56145	----	x 4"	25/50	0.78	57145	----
56146	----	x 4-1/2"	25/50	0.89	57146	----
56147	----	x 5"	25/50	1.10	57147	----
56148	----	x 5-1/2"	20/40	1.10	57148	----
56149	----	x 6"	15/30	1.20	57149	----
56150	----	x 7"	15/30	1.41	57150	----
56151	----	x 8"	15/30	1.62	57151	----
56152	----	x 9"	15/30	1.83	57152	----
56153	----	x 10"	1/20	2.04	57153	----
56154	----	x 11"	1/20	2.25	57154	----
56155	----	x 12"	1/20	2.46	57155	----
56280	----	x 18"	1/3	3.66	57280	----
56281	----	x 24"	1/3	4.92	57281	----
56282	----	x 30"	1/3	6.12	57282	----
56283	----	x 36"	1/3	7.38	57283	----
56285	----	x 48"	1/3	9.84	57285	----
		x 60"			57286	----

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BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS



2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56160	----	X Close (2")	40/80	0.55	57160	----
56161	----	x 2-1/2"	25/50	0.70	57161	----
56162	----	x 3"	25/50	0.86	57162	----
56163	----	x 3-1/2"	1/30	1.01	57163	----
56164	----	x 4"	1/30	1.16	57164	----
56165	----	x 4-1/2"	1/25	1.31	57165	----
56166	----	x 5"	1/30	1.47	57166	----
56167	----	x 5-1/2"	1/30	1.62	57167	----
56168	----	x 6"	1/20	1.77	57168	----
56169	----	x 7"	1/20	2.08	57169	----
56170	----	x 8"	1/20	2.39	57170	----
56171	----	x 9"	1/10	2.70	57171	----
56172	----	x 10"	1/10	3.00	57172	----
56173	----	x 11"	1/10	3.31	57173	----
56174	----	x 12"	1/10	3.62	57174	----
56290	----	x 18"	1/3	5.39	57290	----
56291	----	x 24"	1/3	5.26	57291	----
56292	----	x 30"	1/3	7.03	57292	----
56293	----	x 36"	1/3	10.86	57293	----
56294	----	x 42"	1/3	12.63	57294	----
56295	----	x 48"	1/3	14.48	57295	----
56296	----	x 60"	1/3	18.10	57296	----
56297	----	x 72"	1/3	18.10	57297	----



2-1/2" DIAMETER
SCH 40 WELDED
Wall Thickness 0.203 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56180	----	X Close (2-1/2")	1/20	1.09	57180	----
56181	----	x 3"	1/20	1.33	57181	----
56182	----	x 3-1/2"	1/20	1.57	57182	----
56183	----	x 4"	1/20	1.82	57183	----
56184	----	x 4-1/2"	1/20	2.06	57184	----
56185	----	x 5"	1/20	2.30	57185	----
56186	----	x 5-1/2"	1/10	2.54	57186	----
56187	----	x 6"	1/10	2.78	57187	----
56188	----	x 7"	1/10	3.27	57188	----
56189	----	x 8"	1/10	3.75	57189	----
56190	----	x 9"	1/10	4.24	57190	----
56191	----	x 10"	1/8	4.72	57191	----
56192	----	x 11"	1/8	5.21	57192	----
56193	----	x 12"	1/8	5.69	57193	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40
NIPPLES AND FITTINGS



3" DIAMETER
SCH 40 WELDED

Wall Thickness 0.216 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56200	----	X Close (2-5/8")	1/20	1.52	57200	----
56201	----	x 3"	1/20	1.76	57201	----
56202	----	x 3-1/2"	1/10	2.08	57202	----
56203	----	x 4"	1/10	2.39	57203	----
56204	----	x 4-1/2"	1/10	2.71	57204	----
56205	----	x 5"	1/10	3.03	57205	----
56206	----	x 5-1/2"	1/10	3.35	57206	----
56207	----	x 6"	1/10	3.66	57207	----
56208	----	x 7"	1/8	4.30	57208	----
56209	----	x 8"	1/8	4.93	57209	----
56210	----	x 9"	1/8	5.57	57210	----
56211	----	x 10"	1/5	6.20	57211	----
56212	----	x 11"	1/5	7.20	57212	----
56213	----	x 12"	1/5	7.47	57213	----
		x 24"	1	14.94	57311	----



4" DIAMETER
SCH 40 WELDED

Wall Thickness 0.237 - Grade B - Test Pressure 2210 PSI - Thread Length 1.74



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56220	----	X Close (2-7/8")	1/10	2.00	57220	----
56221	----	3-1/2"	1/8	2.21		
56223	----	x 4"	1/8	3.41	57223	----
56224	----	x 4-1/2"	1/6	3.86	57224	----
56225	----	x 5"	1/6	4.31	57225	----
56226	----	x 5-1/2"	1/6	4.76	57226	----
56227	----	x 6"	1/6	5.21	57227	----
56330	----	x 7"	1/5	6.48	57330	----
56229	----	x 8"	1/5	7.01	57229	----
56331	----	x 9"	1/5	7.54	57331	----
56332	----	x 10"	1/5	8.14	57332	----
56228	----	x 12"	1/4	8.54	57228	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

NIPPLES AND ASSORTMENTS

NIPPLES AND FITTINGS



6" DIAMETER
SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06



PART # GALV		LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
56300	----	X Close (3-1/8")	1/1	3.80	57300	----
		x 4"	1/1	5.30	57304	----
		x 6"	1/1	8.30	57301	----
		x 8"	1/1	11.30	57305	----
		x 10"			57306	----
		x 12"	1/1	17.20	57308	----



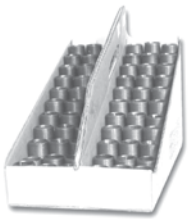
8" DIAMETER
SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
57320	X Close (3-1/8")	1/1	5.80	----
57322	x 6"	1/1	6.50	----
57324	x 8"	1/1	11.30	----
57326	x 10"	1/1	19.00	----
57328	x 12"	1/1	28.55	----

STEEL NIPPLE ASSORTMENTS

B "6" ASSORTMENTS



BLACK		LENGTH											WT. LBS.	TOTAL PIECES	
			1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973567	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	----
973568	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	----
973569	1"	6		6	6	6	6	6	6	6	6	6	34	60	----

GALV.		LENGTH											WT. LBS.	TOTAL PIECES	
			1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973667	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	----
973668	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	----
973669	1"	6		6	6	6	6	6	6	6	6	6	34	60	----

STEEL TOTE TRAYS





PART #	SIZE	CAPACITY	
990781	1/2"	77pcs	----
990782	3/4"	66pcs	----
990783	1"	50pcs	----
990786	1-1/4"	40pcs	----
990784	1-1/2"	30pcs	----
990785	2"	27pcs	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

EXTRA HEAVY SEAMLESS STEEL PIPE NIPPLES

1/8" - 27



1/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.094 - GradeB - Test Pressure850 PSI - Thread Length 0.39

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59001SMLS	x Close	40/480	0.02	----
59002SMLS	x 1-1/2"	40/480	0.03	----
59003SMLS	x 2"	100/400	0.05	----
59004SMLS	2-1/2"	100/400	0.06	----
59005SMLS	x 3"	40/240	0.08	----
59006SMLS	x 3-1/2"	40/240	0.09	----
59007SMLS	x 4"	40/240	0.11	----
59009SMLS	x 5"	40/120	0.12	----
59010SMLS	x 5-1/2"	40/120	0.13	----
59011SMLS	x 6"	40/80	0.16	----

1/4"-18



1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.119 - Grade B - Test Pressure 850 PSI - Thread Length 0.59

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59020SMLS	x Close (7/8")	40 / 480	0.03	----
59021SMLS	x 1-1/2"	100 / 400	0.06	----
59022SMLS	x 2"	100 / 400	0.08	----
59023SMLS	x 2-1/2"	80 / 320	0.10	----
59024SMLS	x 3"	40 / 240	0.12	----
59025SMLS	x 3-1/2"	40 / 240	0.15	----
59026SMLS	x 4"	40 / 240	0.17	----
59027SMLS	x 4-1/2"	40 / 120	0.19	----
59028SMLS	x 5"	40 / 120	0.21	----
59029SMLS	x 5-1/2"	40 / 80	0.24	----
59030SMLS	x 6"	40 / 80	0.26	----
59031SMLS	x 7"	40 / 80	0.30	----
59032SMLS	x 8"	40 / 80	0.35	----
59033SMLS	x 9"	40 / 80	0.39	----
59034SMLS	x 10"	40 / 80	0.44	----
59036SMLS	x 12"	40 / 80	0.53	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS

3/8"-18



3/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.126 - Grade B - Test Pressure 850 PSI - Thread Length 0.6

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59040SMLS	X Close (3/8")	40 / 480	0.05	----
59041SMLS	x 1-1/2"	100 / 400	0.08	----
59042SMLS	x 2"	100 / 400	0.11	----
59043SMLS	x 2-1/2"	80 / 320	0.14	----
59044SMLS	x 3"	40 / 240	0.17	----
59045SMLS	x 3-1/2"	40 / 240	0.20	----
59046SMLS	x 4"	40 / 240	0.23	----
59047SMLS	x 4-1/2"	40 / 160	0.26	----
59048SMLS	x 5"	40 / 120	0.29	----
59049SMLS	x 5-1/2"	40 / 120	0.32	----
59050SMLS	x 6"	40 / 80	0.35	----
59052SMLS	x 8"	40/80	0.47	----
59054SMLS	x 10"	40/80	0.53	----
59056SMLS	x 12"	40/80	0.65	----

1/2" - 14



1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.147 - Grade B - Test Pressure 850 PSI - Thread Length 0.78

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59060SMLS	X Close (1-1/8")	40 / 480	0.07	----
59061SMLS	x 1-1/2"	100 / 400	0.11	----
59062SMLS	x 2"	100 / 400	0.15	----
59063SMLS	x 2-1/2"	80 / 320	0.20	----
59064SMLS	x 3"	40 / 240	0.24	----
59065SMLS	x 3-1/2"	40 / 240	0.29	----
59066SMLS	x 4"	40 / 240	0.33	----
59067SMLS	x 4-1/2"	40 / 160	0.38	----
59068SMLS	x 5"	40 / 120	0.42	----
59069SMLS	x 5-1/2"	40 / 120	0.47	----
59070SMLS	x 6"	40 / 80	0.51	----
59071SMLS	x 7"	40 / 80	0.60	----
59072SMLS	x 8"	40 / 80	0.69	----
59073SMLS	x 9"	40/80	0.73	----
59074SMLS	x 10"	40 / 80	0.88	----
59075SMLS	x 11"	32/64	0.96	----
59076SMLS	x 12"	32 / 64	1.06	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



3/4" - 14

3/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.154 - Grade B - Test Pressure 850 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59080SMLS	X Close (1-3/8")	40/240	0.13	----
59081SMLS	x 1-1/2"	100/200	0.15	----
59082SMLS	x 2"	100/200	0.21	----
59083SMLS	x 2-1/2"	40/160	0.27	----
59084SMLS	x 3"	40/160	0.33	----
59085SMLS	x 3-1/2"	40/120	0.39	----
59086SMLS	x 4"	40/120	0.45	----
59087SMLS	x 4-1/2"	40/120	0.51	----
59088SMLS	x 5"	40/120	0.57	----
59089SMLS	x 5-1/2"	48/96	0.64	----
59090SMLS	x 6"	40/80	0.69	----
59091SMLS	x 7"	40/80	0.82	----
59092SMLS	x 8"	40/80	0.94	----
59094SMLS	x 10"	32/64	1.19	----
59096SMLS	x 12"	24/48	1.44	----

1" - 11 1/2



1" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.179 - Grade B - Test Pressure 850 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59100SMLS	X Close (1-1/2")	40 / 160	0.21	----
59101SMLS	x 2"	40 / 120	0.30	----
59102SMLS	x 2-1/2"	40 / 120	0.37	----
59103SMLS	x 3"	40 / 80	0.47	----
59104SMLS	x 3-1/2"	40 / 80	0.56	----
59105SMLS	x 4"	40 / 80	0.65	----
59106SMLS	x 4-1/2"	40 / 80	0.74	----
59107SMLS	x 5"	40 / 80	0.83	----
59108SMLS	x 5-1/2"	40 / 80	0.92	----
59109SMLS	x 6"	32 / 64	1.01	----
59110SMLS	x 7"	20 / 40	1.19	----
59111SMLS	x 8"	20 / 40	1.37	----
59112SMLS	x 9"	20 / 40	1.55	----
59113SMLS	x 10"	12 / 24	1.74	----
59114SMLS	x 11"	12 / 24	1.92	----
59115SMLS	x 12"	12 / 24	2.10	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS



1-1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.191 - Grade B - Test Pressure 1900 PSI - Thread Length 1.01

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59120SMLS	X Close (1-5/8")	40 / 80	0.31	----
59121SMLS	x 2"	40 / 80	0.42	----
59122SMLS	x 2-1/2"	40 / 80	0.52	----
59123SMLS	x 3"	40 / 80	0.64	----
59124SMLS	x 3-1/2"	24 / 48	0.77	----
59125SMLS	x 4"	24 / 48	0.90	----
59126SMLS	x 4-1/2"	24 / 48	1.02	----
59127SMLS	x 5"	20 / 40	1.15	----
59128SMLS	x 5-1/2"	20 / 40	1.27	----
59129SMLS	x 6"	20 / 40	1.40	----
59130SMLS	x 7"	20 / 40	1.65	----
59131SMLS	x 8"	12 / 24	1.90	----
59132SMLS	x 9"	12 / 24	2.15	----
59133SMLS	x 10"	12 / 24	2.40	----
59134SMLS	x 11"	8 / 16	2.65	----
59135SMLS	x 12"	8 / 16	2.90	----



1-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.2 - Grade B - Test Pressure 1900 PSI - Thread Length 1.03

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59140SMLS	X Close (1-3/4")	40 / 80	0.41	----
59141SMLS	x 2"	32 / 64	0.51	----
59142SMLS	x 2-1/2"	32 / 64	0.64	----
59143SMLS	x 3"	32 / 64	0.78	----
59144SMLS	x 3-1/2"	20 / 40	0.94	----
59145SMLS	x 4"	20 / 40	1.09	----
59146SMLS	x 4-1/2"	20 / 40	1.23	----
59147SMLS	x 5"	20 / 40	1.39	----
59148SMLS	x 5-1/2"	16 / 32	1.54	----
59149SMLS	x 6"	12 / 24	1.69	----
59150SMLS	x 7"	12 / 24	2.00	----
59151SMLS	x 8"	12 / 24	2.30	----
59152SMLS	x 9"	12 / 24	2.61	----
59153SMLS	x 10"	8 / 16	2.90	----
59154SMLS	x 11"	8 / 16	3.20	----
59155SMLS	x 12"	8 / 16	3.51	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.218 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59160SMLS	X Close (2")	32/64	0.30	----
59161SMLS	x 2-1/2"	20 / 40	0.80	----
59162SMLS	x 3"	20 / 40	1.10	----
59163SMLS	x 3-1/2"	12 / 24	1.31	----
59164SMLS	x 4"	12 / 24	1.52	----
59165SMLS	x 4-1/2"	12 / 24	1.72	----
59166SMLS	x 5"	12 / 24	1.94	----
59167SMLS	x 5-1/2"	12 / 24	2.15	----
59168SMLS	x 6"	8 / 16	2.35	----
59169SMLS	x 7"	8 / 16	2.78	----
59170SMLS	x 8"	8 / 16	3.19	----
59171SMLS	x 9"	1 / 8	3.62	----
59172SMLS	x 10"	1 / 8	4.03	----
59173SMLS	x 11"	1 / 8	4.44	----
59174SMLS	x 12"	1 / 8	4.87	----
59196SMLS	x 18"	1/1	7.22	----
59197SMLS	x 24"	1/1	9.74	----
59198SMLS	x 36"	1/1	14.61	----
59199SMLS	x 48"	1/1	19.48	----



2-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.276 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59180SMLS	x Close (2-1/2")	1 / 16	1.25	----
59181SMLS	x 3"	1 / 16	1.57	----
59182SMLS	x 3-1/2"	1 / 16	1.82	----
59183SMLS	x 4"	1 / 16	2.15	----
59184SMLS	x 4-1/2"	1 / 16	1.75	----
59185SMLS	x 5"	1 / 16	2.78	----
59186SMLS	x 5-1/2"	1 / 8	2.25	----
59187SMLS	x 6"	1 / 8	3.41	----
59188SMLS	x 7"	1 / 8	3.89	----
59189SMLS	x 8"	1 / 8	4.69	----
59190SMLS	x 9"	1 / 8	5.34	----
59191SMLS	x 10"	1 / 6	5.97	----
59192SMLS	x 11"	1 / 6	4.89	----
59193SMLS	x 12"	1 / 5	7.26	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 80 SEAMLESS
NIPPLES AND FITTINGS



3" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.3 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

Part #	Length	Box/Case	Approx. Wt. Lbs.	
59-200SMLS	X Close (2-5/8")	1 / 16	1.79	----
59-201SMLS	x 3"	1 / 16	2.11	----
59-202SMLS	x 3-1/2"	1 / 16	2.55	----
59-203SMLS	x 4"	1 / 8	2.89	----
59-204SMLS	x 4-1/2"	1 / 8	3.30	----
59-205SMLS	x 5"	1 / 8	3.73	----
59-206SMLS	x 5-1/2"	1 / 8	4.17	----
59-207SMLS	x 6"	1 / 8	4.57	----
59-208SMLS	x 7"	1 / 6	5.45	----
59-209SMLS	x 8"	1 / 6	6.29	----
59-210SMLS	x 9"	1 / 6	7.17	----
59-211SMLS	x 10"	1 / 4	8.01	----
59-212SMLS	x 11"	1 / 4	8.85	----
59-213SMLS	x 12"	1 / 4	9.72	----



4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.337 - Grade B - Test Pressure 2800 PSI - Thread Length 1.74

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59220SMLS	X Close (2-7/8")	1 / 8	2.91	----
59221SMLS	x 4"	1 / 6	4.26	----
59223SMLS	x 5"	1 / 5	5.49	----
59224SMLS	x 5-1/2"			
59225SMLS	x 6"	1 / 5	6.72	----
59226SMLS	x 7"	1/3	7.33	----
59227SMLS	x 8"	1 / 3	9.23	----
59228SMLS	9"			
59229SMLS	x 10"	1 / 3	11.73	----
59231SMLS	x 12"	1 / 3	14.24	----

SCHEDULE 80 SEAMLESS



6" DIAMETER



8" DIAMETER

PART #		LENGTH	BOX/CASE	APPROX. WT. LBS. 6"	APPROX. WT. LBS. 8"	PART #	
59300SMLS	----	X Close	2	3.57	4.62	59-320SMLS	----
59301SMLS	----	x 6"	2	14.29	16.91	59-322SMLS	----
59305SMLS	----	x 8"	2	19.05	22.54	59-324SMLS	----
59306SMLS	----	x 10"	2	23.81	27.47	59-326SMLS	----
59308SMLS	----	x 12"	2	28.57	34.18	59-328SMLS	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



1/2" DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.294 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59060SMLSXX	x Close	100 / 200	0.31	----
59062SMLSXX	x 2"	100 / 200	0.58	----
59064SMLSXX	x 3"	50 / 100	0.62	----
59066SMLSXX	x 4"	50 / 100	0.66	----
59070SMLSXX	x 6"	25 / 50	0.75	----



3/4" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.308 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59080SMLSXX	x Close	40/240	0.55	----
59082SMLSXX	x 2"	50 / 100	0.62	----
59086SMLSXX	x 4"	25 / 50	0.68	----
59090SMLSXX	x 6"	25 / 50	0.71	----



1" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.358 - Grade B - Test Pressure 1000 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59100SMLSXX	x close	50 / 100	0.88	----
59101SMLSXX	x 2"	50 / 100	1.07	----
59103SMLSXX	x 3"	20/40	1.10	----
59105SMLSXX	x 4"	20 / 40	1.14	----
59109SMLSXX	x 6"	20 / 40	1.75	----
59111SMLSXX	x 8"	1 / 25	1.88	----
59115SMLSXX	x 12"	1 / 15	2.15	----



2" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS

Wall Thickness 0.436 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	
59160SMLSXX	x close	1 / 25	1.36	----
59161SMLSXX	x 2-1/2"	1 / 20	1.67	----
59162SMLSXX	x 3"	1 / 20	2.09	----
59163SMLSXX	x 3-1/2"	1 / 12	2.51	----
59164SMLSXX	x 4"	1 / 12	2.86	----
59166SMLSXX	x 5"	1/12	3.04	----
59168SMLSXX	x 6"	1 / 11	3.20	----
59169SMLSXX	x 7"	1 / 8	4.35	----
59170SMLSXX	x 8"	1 / 8	5.86	----
59171SMLSXX	x 9"	1 / 8	6.58	----
59172SMLSXX	x 10"	1 / 8	7.31	----
59174SMLSXX	x 12"	1 / 8	9.34	----
59179SMLSXX	x 24"	1 / 1	14.77	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

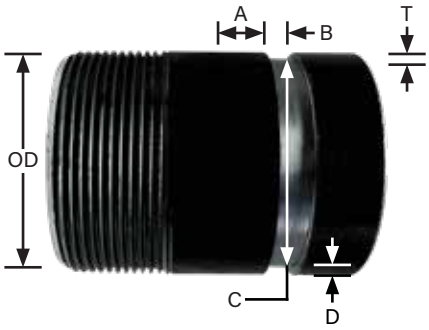
SCH 40 AND SCH 80 GROOVE NIPPLES

NIPPLES AND FITTINGS

THREAD X GROOVE



SCH 40





SCH 80

2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57162TV	----	50	0.70	x 3	1.03	40	59162TV	----
57164TV	----	30	0.97	x 4	1.40	24	59164TV	----
57168TV	----	20	1.64	x 6	2.41	16	59168TV	----
57170TV	----	20	2.15	x 8	3.20	16	59170TV	----
57172TV	----	10	2.80	x 10	3.65	8	59172TV	----
57174TV	----	10	3.45	x 12	4.01	8	59174TV	----

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57201TV	----	20	1.26	x 3	2.01	16	59201TV	----
57203TV	----	10	1.80	x 4	3.01	8	59203TV	----
57207TV	----	10	3.17	x 6	4.87	8	59207TV	----
57209TV	----	8	4.13	x 8	5.86	6	59209TV	----
57211TV	----	5	5.48	x 10	6.19	4	59211TV	----
57213TV	----	5	6.24	x 12	6.37	4	59213TV	----

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	
57222TV	----	8	2.40	x 3	4.11	6	59222TV	----
57223TV	----	8	2.52	x 4	4.15	6	59221TV	----
57227TV	----	6	4.30	x 6	6.52	5	59225TV	----
57229TV	----	4	5.63	x 8	7.18	3	59229TV	----
57332TV	----	4	7.90	x 10	11.74	3	59231TV	----
57228TV	----	4	8.25	x 12	14.24	3	59227TV	----

NOMINAL IPS PIPE SIZE	O.D. ACTUAL	GASKET SEAT "A"	GROOVE WIDTH "B"	GROOVE DIAMETER "C"	ACTUAL GROOVE DEPTH "D"
2	2.375	0.625	0.312	2.250	0.062
3	3.500	0.625	0.312	3.344	0.078
4	4.500	0.625	0.375	4.334	0.083

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

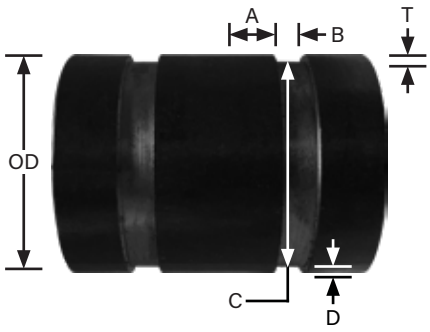
BLACK SCH 40 AND SCH 80 SEAMLESS GROOVE NIPPLES

NIPPLES AND FITTINGS

GROOVE X GROOVE



SCH 40





SCH 80

2" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57162V	----	50	0.70	x 3	1.03	40	59162V	----
57164V	----	30	0.97	x 4	1.40	24	59164V	----
57168V	----	20	1.64	x 6	2.41	16	59168V	----
57170V	----	20	2.15	x 8	3.20	16	59170V	----
57172V	----	10	2.80	x 10	3.65	8	59172V	----
57174V	----	10	3.45	x 12	4.01	8	59174V	----

3" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57201V	----	20	1.26	x 3	2.01	16	59201V	----
57203V	----	10	1.80	x 4	3.01	8	59203V	----
57207V	----	10	3.17	x 6	4.87	8	59207V	----
57209V	----	8	4.13	x 8	5.86	6	59209V	----
57211V	----	5	5.48	x 10	6.19	4	59211V	----
57213V	----	5	6.24	x 12	6.37	4	59213V	----

4" DIAMETER

PART #		BOX	WTG	LENGTH	WTG	BOX	PART #	
57223V	----	8	2.52	x 4	4.15	6	59221V	----
57227V	----	6	4.35	x 6	6.52	5	59225V	----
57229V	----	4	5.63	x 8	7.18	3	59227V	----
57332V	----	4	7.90	x 10	11.74	3	59229V	----
57228V	----	4	8.25	x 12	14.24	3	59231V	----

SEAMLESS SCH 40 GROOVE X BEVEL NIPPLES



PART #	DIA. X LENGTH	
57162GBS	2 x 3	----
57201GBS	3 x 3	----
57222GBS	4 x 3	----
57400GBS	8 x 3	----
57500GBS	10 x 3	----
57600GBS	12 x 3	----

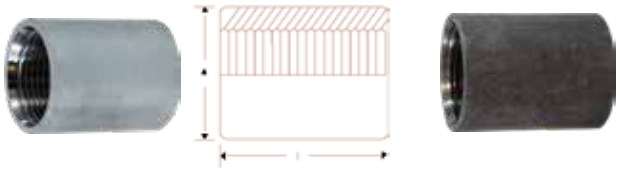
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MERCHANT COUPLINGS

Product Specifications
Welded steel couplings both galvanized and black in diameters from 1/8" up to 4".

Technical Specifications
Standards: Product complies with ASTM A865 and ANSI B1.20.1 for threading, dimensions and pipe specifications. Federal Spec WW-P-404
Pipe: Complies with ASTM A-53 milltested schedule 40 and 80. Meets ANSI B36.1. All pipe is hydrostatic tested.
Galvanized: Zinc coating applied by hot dipping. Galvanized complying with ASTM-A-123.

MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV		SIZE	PART # BLACK	
64770	----	1/8"	65770	----
64771	----	1/4"	65771	----
64772	----	3/8"	65772	----
64773	----	1/2"	65773	----
64774	----	3/4"	65774	----
64775	----	1"	65775	----
64776	----	1-1/4"	65776	----
64777	----	1-1/2"	65777	----
64778	----	2"	65778	----
64779	----	2-1/2"	65779	----
64780	----	3"	65780	----
64781	----	4"	65781	----
		5"	65782	----
		6"	65783	----

HALF MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV		SIZE	PART # BLACK	
		1/8"	65770H	
		1/4"	65771H	----
		3/8"	65772H	----
64773H	----	1/2"	65773H	----
64774H	----	3/4"	65774H	----
64775H	----	1"	65775H	----
64776H	----	1-1/4"	65776H	----
64777H	----	1-1/2"	65777H	----
64778H	----	2"	65778H	----
		2-1/2"	65779H	----
64780H	----	3"	65780H	----
64781H	----	4"	65781H	----



#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	
61775	1	----
61776	1-1/4	----
61777	1-1/2	----
61778	2	----

Also available:
Extra Heavy Merchant Couplings

MERCHANT COUPLINGS SPECIFICATIONS

SIZE	OUTSIDE DIAM.	LENGTH INCHES	WEIGHT 100 PCS APPROX. POUNDS	QUANTITY PER BOX	THREADS PER INCH	THREADS TYPE
1/8"	.59"	.78	3.5	1000	27	Straight
1/4"	.73"	1.18	7.5	500	18	Straight
3/8"	.86"	1.18"	9	600	18	Straight
1/2"	1.063"	1-9/16"	13.0	100	14	Straight
3/4"	1.313"	1-5/8"	28.3	50	14	Straight
1"	1.576"	2"	40.1	30	11-1/2	Straight
1-1/4"	1.900"	2-1/16"	49.5	25	11-1/2	Straight
1-1/2"	2.17"	2-3/64"	71.48	25	11-1/2	Straight
2"	2.750"	2-1/8"	112.0	20	11-1/2	Straight
2-1/2"	3.250"	3-1/8"	231.2	8	8	Taper Tapped
3"	4.000"	3-1/4"	353.8	5	8	Taper Tapped
4"	5.000"	3-1/2"	471.8	4	8	Taper Tapped
6"	7.32	4"	1000.05	4	8	Taper Tapped

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API LINE COUPLINGS

A105 BLACK STEEL TAPER TAPPED COUPLINGS

Product Specifications
These couplings are manufactured in accordance with American Petroleum Institute specifications 5L & 5B.
All couplings are phosphated.
All sizes are taper tapped 3/4" per foot on the diameter.

*Certified by the American Petroleum Institute



A105
- **Black Steel**
- **API line API SL**

- Each end has a short, unthreaded recess before the threads start.
- Use with sch 80 & sch. 160 nipples & pipe.
- Max. pressure: 3000PSI

API LINE PIPE COUPLINGS

PART #	NPT SIZE	THREADS PER INCH	OUTSIDE DIAMETER	LENGTH	UNIT WEIGHT	
65770API	1/8"	27	0.563	1-1/16	0.04	----
65771API	1/4"	18	0.719	1-5/8	0.10	----
65772API	3/8"	18	0.875	1-5/8	0.13	----
65773API	1/2"	14	1.063	2-1/8	0.24	----
65774API	3/4"	14	1.313	2-1/8	0.35	----
65775API	1"	11.5	1.576	2-5/8	0.52	----
65776API	1-1/4"	11.5	2.054	2-3/4	1.00	----
65777API	1-1/2"	11.5	2.200	2-3/4	0.88	----
65778API	2"	11.5	2.875	2-7/8	1.83	----
65779API	2-1/2"	8	3.375	4-1/8	3.28	----
65780API	3"	8	4.000	4-1/4	4.09	----
65781API	4"	8	5.200	4-1/2	7.59	----
65783API	6"	8	7.390	4-5/8	12.92	----
65784API	8"	8	9.625	5-3/4	23.18	----

I'm sorry, if you were right, I'd agree with you.
- Robin Williams

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MALLEABLE FITTINGS



- Saturated steam pressure 150 PSI @ 350°F
- Max pressure 300 PSI @ 150°F
- Temp range -20°F to 350°F

ISO 9002 - CERTIFICATE OF QUALITY - UL/FM LISTED

Our quality fittings are made with care and attention to detail. With better molds we can reduce parting lines and rough edges resulting in better fluid flow. By using a low temperature galvanizing process the coating is more durable which means a longer lasting fitting. All Fittings are 100% Pressure Tested to 300# Class.

(Every fitting is subjected to an underwater fitness test to ensure the highest quality)

SPECIFICATIONS

• MATERIAL: ASTM A 197 - Cuppla Malleable Iron, ASTM A 153 - Hot dipped galvanizing • Coating ASTM A164 LS
• DIMENSIONS: ANSI B 16.3 - Malleable Iron threaded fittings, ANSI B 16.14 - Ferrous Pipe Plugs, Bushings etc..., ANSI B 16.39 - Malleable Iron threaded pipe unions.
• THREADS: ANSI B 2.1 or BS 21 ASME B1.20.1 • RoHS Compliant • Tapered Threads
• Pressure - Saturated steam 150 PSI @350°F: Max pressure 300 PSI - 150°F
• Temperature range -20 - 350°F

MALLEABLE IRON - ANSI B 16.3

F°	Class 150 PSIG	Sizes 1/4-1 300#	Sizes 1 1/4-2 300#	Sizes 2 1/4-3 300#
-200-150	300	2000	1500	1000
200	265	1785	1350	910
250	225	1575	1200	825
300	185	1360	1050	735
366*	150	1150	900	650

*Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

STEEL FITTINGS



• 1010 Carbon Steel, 3/4 taper threads (see hydraulic section for 7/8 taper threads.)
• Finish or coating • Black Dipped in rust resistant
• Galvanized, Zinc Plated (Inside and Out)

300lb MALLEABLE FITTINGS



Max. pressure: 300 psi WOG @ 72°F; 150 psi WOG saturated steam

- Meet ANSI/ ASME B1.20.1 standards
- Black meet ASTM 197 standards

BULL PLUGS AND SWAGES



FLANGES

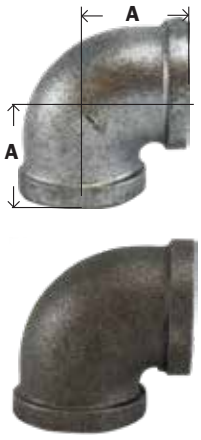


WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

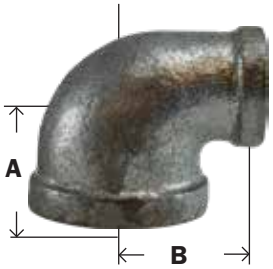
NIPPLES AND FITTINGS

ELBOWS 90°



Part # Galvanized		Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	
64100	----	1/8"	0.69	50/600	0.07	65100	----
64101	----	1/4"	0.81	35/420	0.10	65101	----
64102	----	3/8"	0.95	90/360	0.16	65102	----
64103	----	1/2"	1.12	50/200	0.23	65103	----
64104	----	3/4"	1.31	35/105	0.35	65104	----
64105	----	1"	1.50	20/60	0.57	65105	----
64106	----	1-1/4"	1.75	20/40	0.86	65106	----
64107	----	1-1/2"	1.94	15/30	1.31	65107	----
64108	----	2"	2.25	8/16	1.79	65108	----
64109	----	2-1/2"	2.70	6/12	3.35	65109	----
64110	----	3"	3.08	4/8	5	65110	----
64112	----	4"	3.79	1/2	9.02	65112	----
64114	----	6"	5.13	1/1	23.68	65114	----
		8"			41.1	65115	----

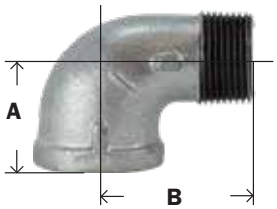
REDUCING ELBOWS 90°





PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64122	----	3/8" x 1/4"	0.88	0.90	90/360	0.16	65122	----
64123	----	1/2" x 1/4"	0.97	0.98	60/240	0.21	65123	----
64124	----	1/2" x 3/8"	1.04	1.03	60/240	0.24	65124	----
64126	----	3/4" x 3/8"	1.12	1.13	40/160	0.31	65126	----
64127	----	3/4" x 1/2"	1.20	1.22	40/160	0.44	65127	----
64130	----	1" x 1/2"	1.26	1.40	25/100	0.52	65130	----
64131	----	1" x 3/4"	1.37	1.45	50/100	0.58	65131	----
64133	----	1-1/4" x 3/4"	1.45	1.62	15/120	0.79	65133	----
64134	----	1-1/4" x 1"	1.58	1.67	10/40	0.80	65134	----
64136	----	1-1/2" x 3/4"	1.52	1.75	10/40	0.88	65136	----
64137	----	1-1/2" x 1"	1.65	1.80	10/40	1.07	65137	----
64138	----	1-1/2" x 1-1/4"	1.82	1.88	15/30	1.12	65138	----
64140	----	2" x 1"	1.73	2.02	14/28	1.41	65140	----
64141	----	2" x 1-1/4"	1.90	2.10	10/20	1.53	65141	----
64142	----	2" x 1-1/2"	2.02	2.16	10/20	1.65	65142	----
64145	----	2-1/2" x 1-1/2"	2.16	2.51	6/12	2.97	65145	----
64146	----	2-1/2" x 2"	2.39	2.60	6/12	3.18	65146	----
64148	----	3" x 1-1/2"	2.28	2.83	6/18	4.54	65148	----

90° STREET ELBOWS





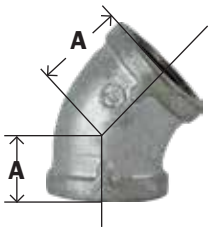
PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64160	----	1/8"	0.69	1.00	60/720	.06	65160	----
64161	----	1/4"	0.80	1.17	35/420	.10	65161	----
64162	----	3/8"	0.95	1.48	40/240	.15	65162	----
64163	----	1/2"	1.10	1.59	60/180	.22	65163	----
64164	----	3/4"	1.28	1.85	35/105	.39	65164	----
64165	----	1"	1.47	2.10	35/105	.60	65165	----
64166	----	1-1/4"	1.75	2.57	25/50	.95	65166	----
64167	----	1-1/2"	1.90	2.63	9/27	1.37	65167	----
64168	----	2"	2.21	3.19	8/16	2.25	65168	----
64169	----	2-1/2"	2.65	3.78	5/10	3.32	65169	----
64170	----	3"	3.02	4.42	4/8	5.27	65170	----
64171	----	4"	3.72	5.57	2/4	8.94	65171	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

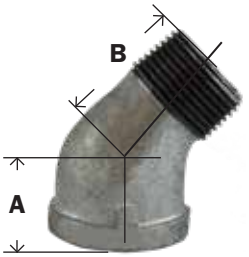
ELBOWS 45°





PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64180	----	1/8"	0.63	50/600	.07	65180	----
64181	----	1/4"	0.73	30/360	.10	65181	----
64182	----	3/8"	0.80	75/300	.14	65182	----
64183	----	1/2"	0.88	50/200	.21	65183	----
64184	----	3/4"	0.98	40/120	.33	65184	----
64185	----	1"	1.12	20/60	.50	65185	----
64186	----	1-1/4"	1.29	20/40	.74	65186	----
64187	----	1-1/2"	1.43	10/30	1.01	65187	----
64188	----	2"	1.68	12/24	1.53	65188	----
64189	----	2-1/2"	1.95	9/18	2.78	65189	----
64190	----	3"	2.17	1/10	4.49	65190	----
64191	----	4"	2.61	2/4	7.44	65191	----
64192	----	6"	3.46	1/1	18.63	65192	----
		8"			26.40	65194	----

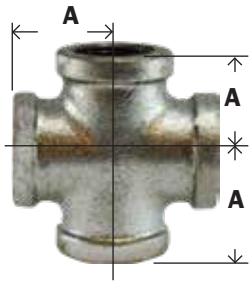
45° STREET ELBOWS





PART # GALVA-NIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64200	----	1/8"	0.63	0.83	70/840	.05	65200	----
64201	----	1/4"	0.73	0.94	40/480	.09	65201	----
64202	----	3/8"	0.80	1.03	100/400	.14	65202	----
64203	----	1/2"	0.86	1.30	75/225	.19	65203	----
64204	----	3/4"	0.96	1.48	40/120	.28	65204	----
64205	----	1"	1.10	1.69	25/75	.48	65205	----
64206	----	1-1/4"	1.26	1.87	10/40	.71	65206	----
64207	----	1-1/2"	1.40	2.05	10/30	1.02	65207	----
64208	----	2"	1.65	2.38	12/24	1.68	65208	----
64209	----	2-1/2"	1.95	2.72	6/12	2.69	65209	----
64210	----	3"	2.17	3.16	3/6	4.61	65210	----
64211	----	4"	2.61	3.90	2/4	7.74	65211	----

CROSSES





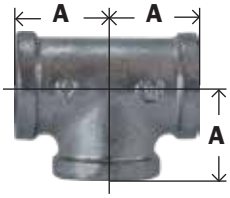
PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64390	----	1/8"	0.65	50/600	.14	65390	----
64391	----	1/4"	0.80	60/240	.17	65391	----
64392	----	3/8"	0.95	50/150	.26	65392	----
64393	----	1/2"	1.12	30/90	.42	65393	----
64394	----	3/4"	1.31	20/60	.64	65394	----
64395	----	1"	1.50	15/30	.98	65395	----
64396	----	1-1/4"	1.75	10/20	1.45	65396	----
64397	----	1-1/2"	1.94	8/16	1.90	65397	----
64398	----	2"	2.25	5/10	2.96	65398	----
64399	----	2-1/2"	2.71	4/8	5.49	65399	----
64400	----	3"	3.06	2/4	7.71	65400	----
		4"		1/1	14.77	65401	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

TEES

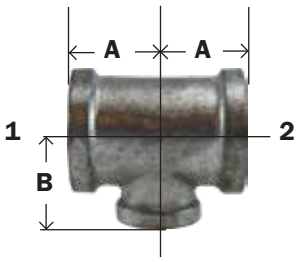




PART # GALVANIZED		SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	
64250	----	1/8″	0.69	120/480	.11	65250	----
64251	----	1/4″	0.81	75/300	.15	65251	----
64252	----	3/8″	0.95	45/180	.22	65252	----
64253	----	1/2″	1.12	40/120	.36	65253	----
64254	----	3/4″	1.31	35/70	.48	65254	----
64255	----	1″	1.50	20/40	.83	65255	----
64256	----	1-1/4″	1.75	14/28	1.29	65256	----
64257	----	1-1/2″	1.94	12/24	1.66	65257	----
64258	----	2″	2.26	8/16	2.50	65258	----
64259	----	2-1/2″	2.70	4/8	4.45	65259	----
64260	----	3″	3.08	1/6	6.72	65260	----
64261	----	4″	3.79	1/2	11.31	65261	----
64262	----	6″	5.13	1/1	30.75	65262	----
		8"			37.85	65264	----

REDUCING TEES

(SAME SIZE ON RUN, REDUCING ON BRANCH)



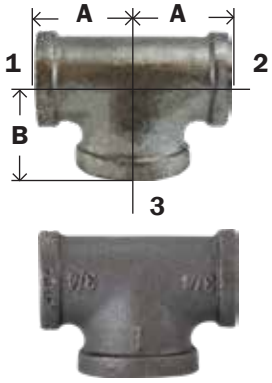


PART # GALVA-NIZED		SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64273	----	3/8″ x 1/4″	0.81	0.90	25/300	.18	65273	----
64276	----	1/2″ x 1/4″	0.97	0.98	40/160	.24	65276	----
64279	----	1/2″ x 3/8″	1.04	1.03	40/160	.35	65279	----
64282	----	3/4″ x 1/4″	1.05	1.08	25/100	.43	65282	----
64283	----	3/4″ x 3/8″	1.12	1.13	25/100	.39	65283	----
64286	----	3/4″ x 1/2″	1.20	1.18	20/80	.49	65286	----
64268	----	1″ x 1/4″	1.11	1.22	20/80	.51	65268	----
64269	----	1″ x 3/8″	1.18	1.27	15/60	.55	65269	----
64291	----	1″ x 1/2″	1.26	1.40	15/60	.63	65291	----
64298	----	1″ x 3/4″	1.37	1.45	12/48	.71	65298	----
64301	----	1-1/4″ x 1/2″	1.34	1.45	20/40	.91	65301	----
64303	----	1-1/4″ x 3/4″	1.45	1.62	20/40	.99	65303	----
64306	----	1-1/4″ x 1″	1.58	1.66	20/40	1.07	65306	----
64721	----	1-1/2" x 1/2"				1.12	65721	----
64316	----	1-1/2″ x 3/4″	1.41	1.75	15/30	1.23	65316	----
64318	----	1-1/2″ x 1″	1.65	1.88	10/30	1.33	65318	----
64322	----	1-1/2″ x 1-1/4″	1.65	1.88	12/24	1.52	65322	----
64327	----	2″ x 1/2″	1.49	1.88	10/20	1.64	65327	----
64328	----	2″ x 3/4″	1.60	1.97	10/20	1.71	65328	----
64330	----	2″ x 1″	1.73	2.02	10/20	1.88	65330	----
64334	----	2″ x 1-1/4″	1.86	2.06	8/16	2.03	65334	----
64336	----	2″ x 1-1/2″	1.98	2.12	8/16	2.22	65336	----
		2-1/2" x 1"				2.85	65342	----
64343	----	2-1/2″ x 1-1/2″	2.16	2.51	5/10	2.97	65343	----
64729	----	3" x 1"	2.00	2.00	3/6	4.15		
		3" x 1-1/2"				5.19	65359	----
64351	----	3″ x 2″	2.52	2.89	3/6	5.35	65351	----

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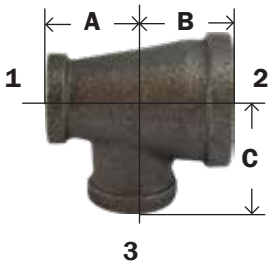
BLACK AND GALVANIZED IRON #150
NIPPLES AND FITTINGS

BULLHEAD TEES



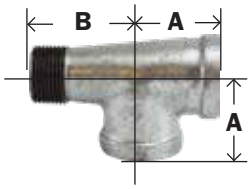
PART # GALVANIZED		SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64280	----	1/2" x 3/4"	1.22	1.20	30/120	.4	65280	----
64733	----	1/2" x 1"	1.36	1.26	25/100	.50	65733	----
64289	----	3/4" x 1"	1.45	1.37	20/120	.60	65289	----
64299	----	1" x 1-1/4"	1.67	1.58	15/30	.96	65299	----
64300	----	1" x 1-1/2"	1.80	1.65	9/36	1.11	65300	----
64317	----	1-1/4" x 1-1/2"	1.88	1.82	12/24	1.07	65317	----

REDUCING TEES
REDUCING ON RUN



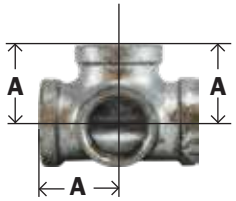
PART # BLACK	SIZE 1 X 2 X 3	A	B	C	BOX/CASE	APPROX. WT. LBS.	
65287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39	----
65288	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49	----
65292	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51	----
65293	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53	----
65294	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54	----
65295	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58	----
65296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63	----
65297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62	----
65347	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66	----
65305	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14	----
65309	1-1/4" x 1"x 1"	1.55	1.47	1.63	20/40	1.00	----
65346	1-1/4" x 3/4" x 1/2"	1.31	1.45	1.64	20/40	1.05	----
65349	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10	----
65350	1-1/4" x 1" x 3/4"						----
65310	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21	----
65372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28	----
65375	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30	----
65377	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35	----
65267	2" x 3/4" x 2"						----
65312	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21	----
65313	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79	----

MALLEABLE SERVICE TEE (STREET TEE)



PART # GALVANIZED		SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64363	----	1/2"	1.12	1.62	40/12	0.31	65363	----
64364	----	3/4"	1.31	1.89	25/75	0.49	65364	----

SIDE OUTLET TEES



PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64383	----	1/2"	1.12	25/100	.39	65383	----
64384	----	3/4"	1.31	15/60	.58	65384	----
64385	----	1"	1.50	20/40	.88	65385	----
64386	----	1-1/4"	1.75	12/24	1.32	65386	----
		1-1/2"	1.97	1/1	1.56	65387	----
		2"	2.29	1/1	1.81	65388	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

COUPLINGS





PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64410	----	1/8″	0.96	70/840	.07	65410	----
64411	----	1/4″	1.06	40/480	.09	65411	----
64412	----	3/8″	1.16	40/480	.13	65412	----
64413	----	1/2″	1.34	60/240	.19	65413	----
64414	----	3/4″	1.52	50/150	.28	65414	----
64415	----	1″	1.67	25/100	.45	65415	----
64416	----	1-1/4″	1.93	16/64	.66	65416	----
64417	----	1-1/2″	2.15	18/36	.84	65417	----
64418	----	2″	2.54	12/24	1.39	65418	----
64419	----	2-1/2″	2.88	8/16	2.42	65419	----
64420	----	3″	3.18	1/12	3.49	65420	----
64421	----	4″	3.69	3/6	5.81	65421	----
64422	----	6″	4.23	1/2	28.62	65422	----

REDUCING COUPLINGS





PART # GALVA-NIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64430	----	1/4″ x 1/8″	1.00	50/600	.07	65430	----
64431	----	3/8″ x 1/8″	1.13	35/420	.09	65431	----
64432	----	3/8″ x 1/4″	1.13	30/360	.11	65432	----
64433	----	1/2″ x 1/8″	1.25	75/300	.13	65433	----
64434	----	1/2″ x 1/4″	1.25	75/300	.11	65434	----
64435	----	1/2″ x 3/8″	1.25	60/240	.15	65435	----
64439	----	3/4″ x 1/8″	1.44	60/240	.18	65439	----
64436	----	3/4″ x 1/4″	1.44	45/18	.19	65436	----
64437	----	3/4″ x 3/8″	1.44	45/18	.21	65437	----
64438	----	3/4″ x 1/2″	1.44	60/180	.25	65438	----
64459	----	1″ x 1/4″	1.69	45/135	.34	65459	----
64440	----	1″ x 3/8″	1.69	30/120	.35	65440	----
64441	----	1″ x 1/2″	1.69	30/120	.36	65441	----
64442	----	1″ x 3/4″	1.69	25/100	.39	65442	----
64460	----	1-1/4″ x 3/8″	2.06	25/75	.55	65460	----
64444	----	1-1/4″ x 1/2″	2.06	25/75	.53	65444	----
64445	----	1-1/4″ x 3/4″	2.06	25/75	.57	65445	----
64446	----	1-1/4″ x 1″	2.06	15/60	.61	65446	----
64443	----	1-1/2″ x 3/8″	2.31	20/60	.71	65443	----
64447	----	1-1/2″ x 1/2″	2.31	20/60	.69	65447	----
64448	----	1-1/2″ x 3/4″	2.31	15/60	.71	65448	----
64449	----	1-1/2″ x 1″	2.31	25/50	.78	65449	----
64450	----	1-1/2″ x 1-1/4″	2.31	12/48	.87	65450	----
64458	----	2″ x 1/2″	2.81	12/36	1.14	65458	----
64451	----	2″ x 3/4″	2.81	12/36	1.14	65451	----
64452	----	2″ x 1″	2.81	12/36	1.21	65452	----
64453	----	2″ x 1-1/4″	2.81	9/27	1.19	65453	----
64454	----	2″ x 1-1/2″	2.81	9/27	1.38	65454	----
64461	----	2-1/2″ x 1-1/2″	3.25	20/40	2.07	65461	----
64462	----	2-1/2″ x 2″	3.25	7/14	2.23	65462	----
64486	----	3″ x 1-1/2″	3.69	6/12	3.23	65486	----
64456	----	3″ x 2″	3.69	6/12	3.30	65456	----
64463	----	3″ x 2-1/2″	3.69	5/10	3.55	65463	----
64464	----	4″ x 2″	4.38	3/6	5.55	65464	----
64465	----	4″ x 2-1/2″	4.38	3/6	5.90	65465	----
64457	----	4″ x 3″	4.38	3/6	6.05	65457	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

HEX BUSHING







* INSIDE HEX

PART # GALVANIZED		SIZE M X F	A	HEX	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64500	----	*1/4" x 1/8"	0.79	0.67	1/25	.03	65500	----
64501	----	*3/8" x 1/8"	0.79	0.75	1/25	.06	65501	----
64502	----	*3/8" x 1/4"	0.79	0.75	1/25	.05	65502	----
64503	----	1/2" x 1/8"	0.84	1.03	150/600	.09	65503	----
64504	----	1/2" x 1/4"				.08	65504	----
64505	----	1/2" x 3/8"	0.75	1.03	150/600	.07	65505	----
64506	----	3/4" x 1/8"	0.85	1.15	75/300	.14	65506	----
64507	----	3/4" x 1/4"	0.85	1.15	75/300	.13	65507	----
64508	----	3/4" x 3/8"	0.85	1.15	75/300	.12	65508	----
64509	----	3/4" x 1/2"	0.93	1.15	75/300	.10	65509	----
64510*	----	1" x 1/4"	1.13	1.12	50/200	.20	65510*	----
64511*	----	1" x 3/8"	1.13	1.12	50/200	.18	65511*	----
64512	----	1" x 1/2"	1.10	1.42	50/200	.21	65512	----
64513	----	1" x 3/4"	1.10	1.42	50/200	.17	65513	----
64514*	----	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65514*	----
64515*	----	1-1/4" x 3/8"	1.24	1.12	30/120	.29	65515*	----
64516*	----	1-1/4" x 1/2"	1.24	1.24	30/120	.31	65516*	----
64517	----	1-1/4" x 3/4"	1.08	1.76	30/120	.35	65517	----
64518	----	1-1/4" x 1"	1.08	1.76	30/120	.29	65518	----
64519*	----	1-1/2" x 1/4"	1.30	1.12	25/75	.40	65519*	----
64520*	----	1-1/2" x 3/8"	1.30	1.12	25/75	.38	65520*	----
64521*	----	1-1/2" x 1/2"	1.30	1.34	25/75	.38	65521*	----
64522*	----	1-1/2" x 3/4"	1.30	1.44	25/75	.40	65522*	----
64523	----	1-1/2" x 1"	1.23	2.00	25/75	.45	65523	----
64524	----	1-1/2" x 1-1/4"	1.23	2.00	25/75	.34	65524	----
64526	----	2" x 1/4"	1.29	1.12	20/60	.57	65526	----
64525*	----	2" x 3/8"	1.28	1.12	20/60	.57	65525*	----
64527*	----	2" x 1/2"	1.39	1.34	20/60	.57	65527*	----
64528*	----	2" x 3/4"	1.39	1.63	20/60	.63	65528*	----
64529*	----	2" x 1"	1.39	1.77	20/60	.66	65529*	----
64530	----	2" x 1-1/4"	1.50	2.48	20/60	.74	65530	----
64531	----	2" x 1-1/2"	1.50	2.48	20/60	.61	65531	----
64546*	----	2-1/2" x 1/2"	1.51	1.34	15/30	.97	65546*	----
64547*	----	2-1/2" x 3/4"	1.51	1.63	15/30	.91	65547*	----
64532*	----	2-1/2" x 1"	1.51	1.95	15/30	.97	65532*	----
64533*	----	2-1/2" x 1-1/4"	1.51	2.39	15/30	1.03	65533*	----
64534	----	2-1/2" x 1-1/2"	1.51	2.98	15/30	1.16	65534	----
64535	----	2-1/2" x 2"	1.54	2.98	15/30	1.01	65535	----
64550	----	3" x 1"	1.61	1.95	12/24	1.41	65550	----
64549*	----	3" x 1-1/4"	1.61	2.39	12/24	1.42	65549*	----
64537*	----	3" x 1-1/2"	1.61	2.68	12/24	1.51	65537*	----
64538	----	3" x 2"	1.61	3.86	12/24	1.71	65538	----
64539	----	3" x 2-1/2"	1.61	3.86	12/24	1.68	65539	----
		3-1/2" x 3"	1.86	4.20	5/10	2.17	65555	----
64551	----	4" x 3/4"	2.15	4.90	5/10	3.88	65551	----
64553*	----	4" x 1"	2.00	4.75	5/10	3.79	65553*	----
64552	----	4" x 1-1/4"	1.82	2.39	5/10	2.39	65552	----
64540	----	4" x 1-1/2"	1.82	2.68	5/10	2.39	65540	----
64541*	----	4" x 2"	1.82	3.31	5/10	2.52	65541*	----
64542*	----	4" x 2-1/2"	2.06	3.87	5/10	2.87	65542*	----
64543	----	4" x 3"	2.17	4.96	5/10	2.95	65543	----
		5" x 4"	2.16	5.34	2/4	6.80	65544	----
64545*	----	6" x 4"	2.33	5.79	2/4	7.11	65545*	----

NOTE: ADD DT TO THE PART# FOR A DOUBLE-TAPPED BUSHING

BLACK AND GALVANIZED IRON #150
NIPPLES AND FITTINGS

UNIONS



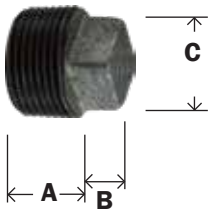


• Brass Seat

PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64600	----	1/8″	1.26	60/240	.17	65600	----
64601	----	1/4″	1.44	20/240	.25	65601	----
64602	----	3/8″	1.61	40/160	.37	65602	----
64603	----	1/2″	1.72	50/100	.52	65603	----
64604	----	3/4″	1.94	35/70	.78	65604	----
64605	----	1″	2.06	20/40	1.18	65605	----
64606	----	1-1/4″	2.26	15/30	1.64	65606	----
64607	----	1-1/2″	2.41	10/20	2.08	65607	----
64608	----	2″	2.75	6/12	3.24	65608	----
64609	----	2-1/2″	3.22	4/8	5.31	65609	----
64610	----	3″	3.50	4/8	6.94	65610	----
64611	----	4″	3.85	2/4	12.02	65611	----

SQUARE HEAD PLUGS

• Cored





PART # GALVANIZED		SIZE	A	B	C	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
		*1/8"	0.41	0.23	0.30	1/25	.02	65650	----
64651	----	*1/4″	0.48	0.28	0.38	1/25	.03	65651	----
64652	----	*3/8″	0.53	0.31	0.43	1/25	.04	65652	----
64653	----	1/2″	0.58	0.38	0.56	50/600	.08	65653	----
64654	----	3/4″	0.65	0.44	0.63	30/360	.13	65654	----
64655	----	1″	0.75	0.50	0.82	20/240	.22	65655	----
64656	----	1-1/4″	0.82	0.56	0.94	40/120	.33	65656	----
64657	----	1-1/2″	0.85	0.62	1.13	30/90	.41	65657	----
64658	----	2″	0.91	0.68	1.31	20/60	.68	65658	----
64659	----	2-1/2″	1.26	0.74	1.50	16/64	.89	65659	----
64660	----	3″	1.16	0.80	1.69	16/32	1.68	65660	----
64661	----	4″	1.22	1.00	2.28	6/12	3.02	65661	----
		6"	1.85	1.13	5.97	5/10	11.41	65662	----
		8"				1/1		65664	----

CAPS





PART # GALVANIZED		SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64470	----	1/8"	0.55	1/25	.03	65470	----
64471	----	1/4"	0.62	80/960	.07	65471	----
64472	----	3/8″	0.74	60/720	.08	65472	----
64473	----	1/2″	0.87	75/300	.13	65473	----
64474	----	3/4″	0.97	40/160	.18	65474	----
64475	----	1″	1.16	25/100	.30	65475	----
64476	----	1-1/4″	1.28	20/80	.47	65476	----
64477	----	1-1/2″	1.33	18/54	.66	65477	----
64478	----	2″	1.45	12/36	.99	65478	----
64479	----	2-1/2″	1.70	20/40	1.58	65479	----
64480	----	3″	1.80	12/24	2.51	65480	----
64481	----	4″	2.08	6/12	4.09	65481	----
64482	----	6″	2.55	2/4	5.18	65482	----

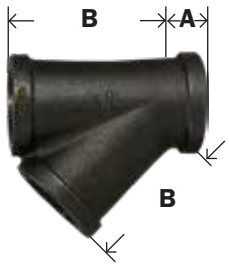
* Use steel fittings for smaller sizes. See page 313-314 for Galvanized and Black Steel Fittings.

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

LATERAL Ys



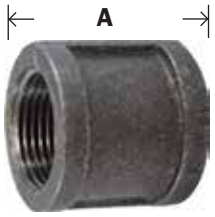
PART #	SIZE	A	B	CASE	WEIGHT	
65963	1/2	2.32	1.71	120	.35	----
65964	3/4	2.77	2.05	60	.58	----
65965	1	3.28	2.42	40	.97	----
65966	1-1/4	3.94	2.92	24	1.44	----
65967	1-1/2	4.38	3.28	16	1.93	----
65968	2	5.41	3.98	8	3.12	----
65969	2-1/2	6.25	4.73	4	5.61	----
65970	3	7.26	5.55	2	8.36	----
65971	4	8.98	6.97	2	14.88	----

LOCKNUTS



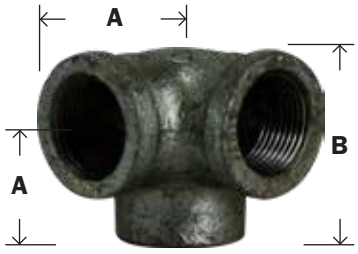
PART # GALV		SIZE	A HEX	THICK-NESS	BOX/ CASE	WEIGHT	PART # BLACK	
64703	----	1/2		0.31	150/600	0.08	65703	----
64704	----	3/4		0.34	90/360	0.13	65704	----
64705	----	1		0.38	60/240	0.19	65705	----
64706	----	1-1/4		0.42	45/180	0.27	65706	----
64707	----	1-1/2		0.47	45/135	0.47	65707	----
64708	----	2		0.53	25/75	0.56	65708	----

RIGHT & LEFT COUPLINGS



PART # GALV		SIZE	A	CASE	WEIGHT	PART # BLACK	
64573	----	1/2	1.34	240	0.19	65573	----
64574	----	3/4	1.52	150	0.28	65574	----
64575	----	1	1.67	100	0.45	65575	----
64576	----	1-1/4	1.93	64	0.66	65576	----
64577	----	1-1/2	2.15	36	0.84	65577	----
64578	----	2	2.53	24	1.39	65578	----

SIDE OUTLET ELBOW



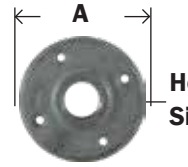
PART # GALV		SIZE	A	B	CASE	PART # BLACK	
64583	----	1/2	1.10		135	65583	----
64584	----	3/4	1.30		80	65584	----
64585	----	1	1.50		40	65585	----
64586	----	1-1/4	1.77		30	65586	----
64587	----	1-1/2	1.97		24	65587	----
64588	----	2	2.29		10	65588	----

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BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

FLOOR FLANGES





PART # GALVA-NIZED		SIZE	A	THICK-NESS	HOLE SIZE	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	
64692	----	1/2″	3.50	0.50	0.25	25/100	.63	65692	----
64693	----	3/4″	3.50	0.63	0.25	15/45	.73	65693	----
64694	----	1″	4.00	0.69	0.25	15/45	1.02	65694	----
64695	----	1-1/4″	4.00	0.75	0.25	15/30	1.00	65695	----
64696	----	1-1/2″	4.50	0.87	0.31	8/24	1.37	65696	----

EXTENSION FIP X MIP



PART #	SIZE	APPROX. WT. LBS.	BOX/CASE	
65621	1/2"	0.12	75 / 300	----
65622	3/4"	0.23	40 / 160	----

MUSHROOM VENT CAP

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.





PART #	SIZE	
21174	3/4"	----
21175	1"	----
21176	1-1/2"	----
21177	1-1/2"	----
21178	2"	----
21179	3"	----
21180	4"	----



DOUBLE TAPPED BUSHINGS



DUPLEX TANK BUSHINGS



WASTE NUT

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL FITTINGS

This will certify that the material was manufactured in accordance with ASME B16.14 - 1991 Standards. All Threads are Dryseal (NPTF) - 3/4 inch taper per foot and are made of Carbon Steel 12L14. Pressure rating: 150/300 PSI

- Clear Zinc plating specifications ASTM B633-07
- Federal Specification QQ-Z-325 (Zinc Plate)
- Type III with supplemental clear Trivalent chromate
- .00015" Zinc (Minimum)
- ROHS Compliant
- Lead Free

HEX BUSHINGS





PART # ZINC		SIZE M X F	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66500	----	1/4" x 1/8"	0.63	0.62	0.02	67500	----
66501	----	3/8" x 1/8"	0.66	0.68	0.04	67501	----
66502	----	3/8" x 1/4"	0.66	0.68	0.02	67502	----
66503	----	1/2" x 1/8"	0.80	0.87	0.10	67503	----
66504	----	1/2" x 1/4"	0.80	0.87	0.08	67504	----
66505	----	1/2" x 3/8"	0.80	0.87	0.06	67505	----
66506	----	3/4" x 1/8"	0.94	1.06	0.18	67506	----
66507	----	3/4" x 1/4"	0.94	1.06	0.14	67507	----
66508	----	3/4" x 3/8"	0.94	1.06	0.14	67508	----
66509	----	3/4" x 1/2"	0.94	1.06	0.10	67509	----
66510	----	1" x 1/4"	1.00	1.31	0.16	67510	----
66511	----	1" x 3/8"	1.00	1.31	0.26	67511	----
66512	----	1" x 1/2"	1.00	1.31	0.22	67512	----
66513	----	1" x 3/4"	1.00	1.31	0.14	67513	----
		1-1/4" x 1/8"	1.08	1.31	0.16	67514	----

FACE BUSHING





PART # ZINC		SIZE M X F	A	APPROX. WT. LBS.	PART # BLACK	
66700	----	1/4" x 1/8"	0.44	0.01	67700	----
66701	----	3/8" x 1/8"	0.48	0.02	67701	----
66702	----	3/8" x 1/4"	0.48	0.02	67702	----
		1/2" x 1/8"	0.56	0.04	67703	----
66704	----	1/2" x 1/4"	0.56	0.04	67704	----
66705	----	1/2" x 3/8"	0.56	0.04	67705	----
		3/4" x 1/4"	0.62	0.12	67707	----
66708	----	3/4" x 3/8"	0.62	0.10	67708	----
66709	----	3/4" x 1/2"	0.62	0.10	67709	----
		1" x 3/8"	0.75	0.18	67711	----
66712	----	1" x 1/2"	0.75	0.16	67712	----
66713	----	1" x 3/4"	0.75	0.16	67713	----

CAPS



PART # ZINC		SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66470	----	1/8"	0.53	0.56	0.02	67470	----
66471	----	1/4"	0.63	0.62	0.04	67471	----
66472	----	3/8"	0.69	0.81	0.06	67472	----
66473	----	1/2"	0.87	1.00	0.12	67473	----
66474	----	3/4"	0.97	1.18	0.16	67474	----
66475	----	1"	1.16	1.50	0.30	67475	----
66476	----	1-1/4"	1.28	2.00	0.68	67476	----
66477	----	1-1/2"	1.35	2.25	0.83	67477	----
66478	----	2"	1.45	2.625	1.36		

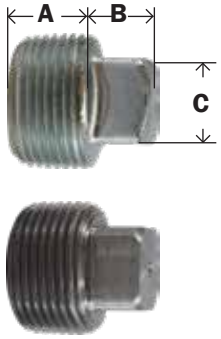
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL FITTINGS
NIPPLES AND FITTINGS

This will certify that the plugs are dimensional per SAE J531 MAY 95 Standards. All threads are Dryseal (NPTF) - 3/4"Taper per foot and are made of SAE J403 Low Carbon Steel 1010 Cold headed.

SQUARE HEAD PLUGS

• Solid



PART # ZINC		SIZE NPTF	A	B	C	APPROX. WT. LBS.	PART # BLACK	
		1/16″	0.33	0.18	0.22	0.01	67669	----
66670	----	1/8″	0.33	0.24	0.28	0.01	67670	----
66671	----	1/4″	0.45	0.28	0.37	0.02	67671	----
66672	----	3/8″	0.50	0.31	0.43	0.04	67672	----
66653	----	1/2″	0.59	0.38	0.55	0.12	67653	----
66654	----	3/4″	0.63	0.44	0.62	0.18	67654	----
66655	----	1"	0.75	0.5	0.81	0.34	67655	----
66656	----	1-1/4"	0.80	0.56	0.93	0.62	67656	----
66657	----	1-1/2"	0.83	0.62	1.12	0.82	67657	----
66658	----	2"	0.88	0.68	1.31	1.36	67658	----

HEX HEAD PLUGS

• Solid



Hex



PART # ZINC		SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	
66770	----	1/8″	0.55	0.43	0.01	67770	----
66771	----	1/4″	0.74	0.56	0.04	67771	----
66772	----	3/8″	0.67	0.68	0.06	67772	----
66773	----	1/2″	0.80	0.70	0.12	67773	----
66774	----	3/4″	0.94	1.06	0.18	67774	----
66775	----	1″	1.00	1.31	0.22	67775	----
66776	----	1-1/4"	1.17	1.75	0.7	67776	----
66777	----	1-1/2"	1.51	2.00	1.2	67777	----
66778	----	2"	1.65	2.50	2.06	67778	----

COUNTERSUNK PLUG - Square Socket





PART # ZINC		SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	
66630	----	1/8″	0.29	0.19	0.01	67630	----
66631	----	1/4″	0.45	0.25	0.02	67631	----
66632	----	3/8″	0.45	0.31	0.04	67632	----
66633	----	1/2″	0.59	0.38	0.08	67633	----
66634	----	3/4″	0.60	0.50	0.12	67634	----
66635	----	1″	0.75	0.50	0.16	67635	----
66636	----	1-1/4"	0.80	0.75	0.32	67636	----
66637	----	1-1/2"	0.83	0.75	0.45	67637	----
66638	----	2"	0.88	0.875	2.06	67638	----

COUNTERSUNK PLUG - Hex Socket





PART # ZINC		SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	
66760	----	1/16″	0.29	0.15	0.01	67760	----
66761	----	1/8″	0.29	0.18	0.01	67761	----
66762	----	1/4″	0.44	0.25	0.02	67762	----
66763	----	3/8″	0.44	0.31	0.04	67763	----
66764	----	1/2″	0.59	0.37	0.08	67764	----
66765	----	3/4″	0.60	0.56	0.14	67765	----
66766	----	1″	0.75	0.625	0.22	67766	----
66767	----	1-1/4"	0.80	0.75	0.37	67767	----
66768	----	1-1/2"	0.83	1.0	0.45	67768	----
66769	----	2"	0.88	1.0	0.86	67769	----

• Slotted and Flush plugs available upon request

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300# MALLEABLE

90° ELBOW



PART #	SIZE	
69101	1/4"	----
69102	3/8"	----
69103	1/2"	----
69104	3/4"	----
69105	1"	----
69106	1-1/4"	----
69107	1-1/2"	----
69108	2"	----

45° ELBOW



PART #	SIZE	
69181	1/4"	----
69182	3/8"	----
69183	1/2"	----
69184	3/4"	----
69185	1"	----
69186	1-1/4"	----
69187	1-1/2"	----
69188	2"	----

90° STREET ELBOW



PART #	SIZE	
69161	1/4"	----
69162	3/8"	----
69163	1/2"	----
69164	3/4"	----
69165	1"	----
69166	1-1/4"	----
69167	1-1/2"	----
69168	2"	----

TEE



PART #	SIZE	
69252	3/8"	----
69253	1/2"	----
69254	3/4"	----
69255	1"	----
69256	1-1/4"	----
69257	1-1/2"	----
69258	2"	----

COUPLING



PART #	SIZE	
69411	1/4"	----
69412	3/8"	----
69413	1/2"	----
69414	3/4"	----
69415	1"	----
69416	1-1/4"	----
69417	1-1/2"	----
69418	2"	----

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REDUCING COUPLING



PART #	SIZE	
69432	3/8 x 1/4"	----
69434	1/2 x 1/4"	----
69435	1/2 x 3/8"	----
69438	3/4 x 1/2"	----
69441	1 x 1/2"	----
69442	1 x 3/4"	----

CAP



PART #	SIZE	
69471	1/4"	----
69472	3/8"	----
69473	1/2"	----
69474	3/4"	----
69475	1"	----
69476	1-1/4"	----
69477	1-1/2"	----
69478	2"	----

UNION

• Brass Seat



PART #	SIZE	
69600	1/8"	----
69601	1/4"	----
69602	3/8"	----
69603	1/2"	----
69604	3/4"	----
69605	1"	----
69606	1-1/4"	----
69607	1-1/2"	----
69608	2"	----

STEEL MAGNETIC PLUGS

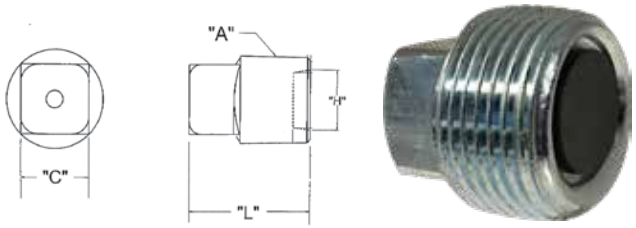
Steel Magnetic Drain Plugs - NPT Threaded

Magnetic Drain Plugs are similar to standard pipe or straight thread drain plugs with one important difference - a permanent magnet is fastened to the plug body. This magnet attracts and holds abrasive, ferrous metal particles preventing their circulation through the lubrication or hydraulic system.

These abrasive, ferrous metal particles appear in lubricating or hydraulic systems as a result of the following conditions:
• The constant flaking effect of normal wear of moving parts.
• Particles not removed by flushing operations after boring or machining.
• Chipping due to sub-surface casting flaws.
• Minute component breakdown caused by stress usage.

Magnetic Drain Plugs prevent excessive wear to the system's components.

Magnetic Plugs are used by numerous manufacturers of gear boxes, transmissions, engines, and hydraulic systems for the automotive, aircraft, agricultural and machinery industries.
Typical applications include:
• Outboard Engines
• Earthmoving Equipment
• Combines
• Balers
• Crawler Tractors
• Lift Trucks
• Mining Equipment
• Military Vehicles
• Turbine Engines
• Truck Axles
• Heavy-Duty Transmissions



PART	SIZE "A"	HEAD WIDTH "C"	RECESS DIA. "H"	O/L LENGTH "L"	
28996	3/8 - 18	.428 - .440	.435 - .445	.805 - .860	----
28997	1/2 - 14	.553 - 565	.560 - .570	.970 -1.04	----
28998	3/4 - 14	.615 - .627	.725 - .735	1.120 - 1.170	----
28999	1-11 1/2	.803 - 815	.895 - .905	1.25 - 1.33	----

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BULL PLUGS AND SWAGES

STANDARD BULL PLUG

- Sch 40 150#
- Zinc plated



PART #	DESCRIPTION	
91008	2"	----
91007	2" w/ 1/2" TAP	----
91009	2-1/2"	----
91010	3"	----
91011	4"	----

XH BULL PLUG

- Made from sch. 80 pipe.
- Zinc plated
- Hollow



PART #	DESCRIPTION	
90001	1/4"	----
90002	3/8"	----
90003	1/2"	----
90004	3/4"	----
90005	1"	----
90006	1-1/4"	----
90007	1-1/2"	----
90008	2"	----
93001*	2"	----
90213	2" w/ 1/4" TAP	----
90212	2" w/ 1/2" TAP	----
93212*	2"XXH w/1/2" TAP	----
90009	2-1/2"	----
90010	3"	----
90215	3" w/ 1/2" TAP	----
90011	4"	----

* XXH

STANDARD SCH. 40 SWAGE
MIP X MIP

- Zinc plated



PART #	DESCRIPTION	
93113	1-1/4" x 1"	----
93121	2" x 1"	----
93122	2" x 1-1/4"	----
93123	2" x 1-1/2"	----
93124	2-1/2" x 2"	----
93125	3" x 1"	----
93127	3" x 1-1/2"	----
93128	3" x 2"	----
93129	3" x 2-1/2"	----
93130	4" x 2"	----
93131	4" x 3"	----
93139	6" x 3"	----

Pressure Ratings: Due to the wide variation in service conditions, temperature, vibrations, etc...We can make no recommendations as to allowable working pressure of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 80 XH SWAGES
MIP X MIP



* Hex Style



PART #	DESCRIPTION	
90100*	1/4" x 1/8"	----
90102*	1/2" x 1/4"	----
90103*	1/2" x 3/8"	----
90104*	3/8" x 1/4"	----
90105*	3/4" x 1/4"	----
90106*	3/4" x 3/8"	----
90107*	3/4" x 1/2"	----
90108*	1" x 1/4"	----
90109*	1" x 3/8"	----
90110*	1" x 1/2"	----
90111*	1" x 3/4"	----
90140	1-1/4" x 3/4"	----
90141	1-1/4" x 1"	----
90114	1-1/2" x 1/2"	----
90115	1-1/2" x 3/4"	----
90116	1-1/2" x 1"	----
90117	1-1/2" x 1-1/4"	----
90118	2" x 1/4"	----
90119	2" x 1/2"	----
90120	2" x 3/4"	----
90121	2" x 1"	----
90122	2" x 1-1/4"	----
90123	2" x 1-1/2"	----
90124	2-1/2" x 2"	----
90125	3" x 1"	----
90126	3" x 1-1/4"	----
90127	3" x 1-1/2"	----
90128	3" x 2"	----
90129	3" x 2-1/2"	----
90133	4" x 1"	----
90130	4" x 2"	----
90131	4" x 3"	----
90132	6" x 4"	----
90150	6" x 2"	----
90152	6" x 3"	----

XXH SWAGE



PART #	DESCRIPTION	
92102*	1/2" x 1/4"	----
92107*	3/4" x 1/2"	----
92108*	1" x 1/4"	----
92109*	1" x 3/8"	----
92110*	1" x 1/2"	----
92111*	1" x 3/4"	----
92114	1-1/2" x 1/2"	----
92115	1-1/2" x 3/4"	----
92116	1-1/2" x 1"	----
92119	2" x 1/2"	----
92120	2" x 3/4"	----
92121	2" x 1"	----
92122	2" x 1-1/4"	----
92123	2" x 1-1/2"	----
92128	3" x 2"	----

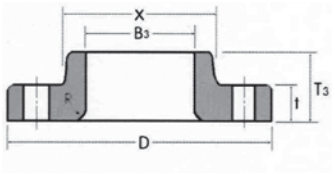
WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ASTMA105
ASME SA105
ANSI B16.5

CARBON STEEL FLANGES

• A105 Forged Steel • CLASS 150
(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)

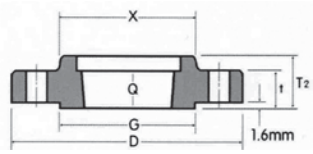




SLIP-ON 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107020	1/2"	----
107021	3/4"	----
107022	1"	----
107023	1-1/4"	----
107024	1-1/2"	----
107025	2"	----
107026	2-1/2"	----
107027	3"	----
107029	4"	----
107031	6"	----
107032	8"	----
107033	10"	----
107034	12"	----





THREADED 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107060	1/2"	----
107061	3/4"	----
107062	1"	----
107063	1-1/4"	----
107064	1-1/2"	----
107065	2"	----
107066	2-1/2"	----
107067	3"	----
107069	4"	----
107071	6"	----
107072	8"	----
107073	10"	----
107074	12"	----

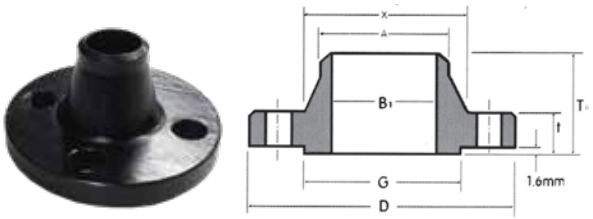
Nominal Pipe Size	Depth of Socket in.	Bolt Circle Diam-eter	Number of Holes	Diam-eter of Holes	Diam-eter of Bolts (inch)	Machine Bolt Length	Stud Bolt Length		Welding Neck	Slip-on and Thread-ed	Blind
						Raised Face	Raised Face	Ring Joint			
	Y								LBS	LBS	LBS
1/2	.382	2.382	4	.618	1/2	2.00	2.252	-	1.146	1.036	1.036
3/4	.441	2.752	4	.618	1/2	2.00	2.50	-	2.028	1.653	1.389
1	.500	3.118	4	.618	1/2	2.252	2.50	3.00	2.425	1.893	2.094
1-1/4	.559	3.50	4	.618	1/2	2.252	2.752	3.252	3.086	3.086	3.086
1-1/2	.618	3.882	4	.618	1/2	2.50	2.752	3.252	3.99	3.109	3.571
2	.689	4.752	4	.752	5/8	2.752	3.252	3.752	6.173	4.982	5.82
2-1/2	.752	5.5	4	.752	5/8	3.00	3.50	4.00	9.436	7.562	8.951
3	.811	6.0	4	.752	5/8	3.00	3.50	4.00	11.42	8.818	11.023
4	.941	7.50	8	.752	5/8	3.00	3.50	4.00	16.138	12.677	16.535
6	1.059	9.50	8	.882	3/4	3.252	4.00	4.50	24.824	17.196	26.455
8	1.252	11.752	8	.882	3/4	3.50	4.252	4.752	39.683	28.66	44.092
10	1.311	14.252	12	1.00	7/8	4.00	4.50	5.00	55.116	37.699	66.139
12	1.559	17	12	1.00	7/8	4.00	4.752	5.252	85.936	61.024	97.003

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ASTMA105
ASME SA105
ANSI B16.5

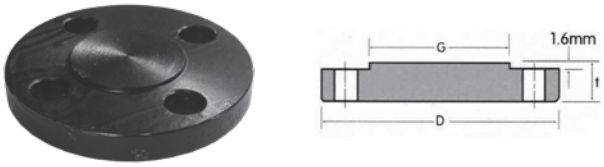
- **A105 Forged Steel**
- **CLASS 150**

(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



WELD NECK CARBON STEEL FLANGE

Part #	Size	
107000	1/2"	----
107001	3/4"	----
107002	1"	----
107003	1-1/4"	----
107004	1-1/2"	----
107005	2"	----
107006	2-1/2"	----
107007	3"	----
107009	4"	----
107011	6"	----
107012	8"	----
107013	10"	----
107014	12"	----



BLIND 1/16" RAISED FACE CARBON STEEL FLANGE

PART #	SIZE	
107040	1/2"	----
107041	3/4"	----
107042	1"	----
107043	1-1/4"	----
107044	1-1/2"	----
107045	2"	----
107046	2-1/2"	----
107047	3"	----
107049	4"	----
107051	6"	----
107052	8"	----
107053	10"	----
107054	12"	----

Nominal Pipe Size	Outside Diameter	O.D of Raised Face	Diameter at Base of Hub	Thickness	Welding Neck Socket Welding	Welding Neck	Slip-on Threaded Socket Welding
	D	G	X	T	B1	T1	T2
1/2	3.504	1.382	1.189	.441	.618	1.882	.618
3/4	3.898	1.689	1.50	.50	.819	2.059	.618
1	4.252	2.00	1.941	.559	1.051	2.189	.689
1-1/4	4.606	2.50	2.311	.618	1.382	2.252	.811
1-1/2	5.00	2.882	2.559	.689	1.610	2.441	.882
2	5.984	3.618	3.059	.752	2.071	2.50	1.00
2-1/2	7.008	4.118	3.559	.882	2.469	2.752	1.118
3	7.52	5.00	4.252	.941	3.071	2.752	1.189
4	9.016	6.189	5.311	.941	4.031	3.00	1.311
6	10.984	8.50	7.559	1.00	6.071	3.50	1.559
8	13.504	10.618	9.689	1.118	7.980	4.00	1.752
10	15.984	12.752	12.00	1.189	10.02	4.00	1.941
12	19.016	15.00	14.382	1.252	12.00	4.50	2.189

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HAMMER UNIONS

FIG 100

Economical and for use in water, oil and gas low pressure applications up to 1,000 PSI CWP. Color coded with Yellow subs and Black nut.



PART#	SIZE	
HAM100-200-SET	2"	----
HAM100-300-SET	3"	----
HAM100-400-SET	4"	----
HAM100-600-SET	6"	----
HAM100-800-SET	8"	----
HAM100-1000-SET	10"	----

FIG 200/ 206

Medium pressure for use in water, oil and gas applications up to 2,000 PSI CWP. Color coded with Grey subs and Blue Nut. The O-Ring in the Male Sub of the FIG206 spec provides greater sealing and protects metal-to-metal seal aganst corrosion.



PART# FIG 200	SIZE	
HAM200-100-SET	1"	----
HAM200-200-SET	2"	----
HAM200-300-SET	3"	----
HAM200-400-SET	4"	----
HAM200-500-SET	5"	----
PART# FIG 206		
HAM206-200-SET	2"	----
HAM206-300-SET	3"	----
HAM206-400-SET	4"	----
HAM206-500-SET	5"	----
HAM206-600-SET	6"	----
HAM206-800-SET	8"	----

CRIMPLOK HAMMER UNIONS

HAMMER UNION

Our hose barb union is constructed of high quality forged steel. The integral hose shank is featured on both the male and female subs. Both time and money is saved by combining the unions with the integral shanks. No more welding hammer unions to combination nipples. Fig100 (black nut) configurations for dewatering applications and fig 200/206 (blue nut) configurations for Frac and Steam applications where a gasket seal is preferred. The union end connection is interchangeable with all major hammer union manufacturers products



PART#	SIZE	
HAM206-400CR-SET	4"	----



PART#	SIZE	
HAM100-400CR-SET	4"	----
HAM100-600CR-SET	6"	----

COPPER FITTINGS



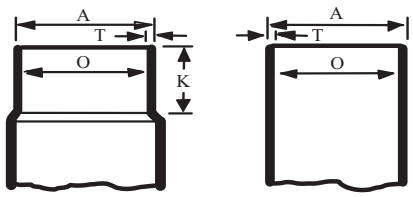
SYMBOL OF JOINT ENDS

C Solder joint fitting end made to receive copper tube diameter
Ftg. Solder joint fitting end made to copper tube diameter
F Internal ANSI Standard Taper Pipe Thread-Female
M External ANSI Standard Taper Pipe Thread-Male
Threaded ends ANSI/ ASME B1. Solder ends ASTM B88

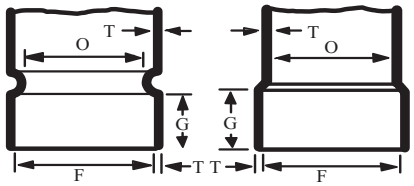
- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI
  - 1-1/4-2 : 400 PSI
  - 2-1/2 - 3: 300 PSI

NSF - 61 CERTIFIED
ALLOY C12200

THE ABOVE CONFORMS TO ASTM B 88 & ASTM B 306, A 306



MALE (FITTING)



FEMALE (COPPER)

Nominal Size	Joint Ends										Metal Thickness T (in)	Inside Diameter O (in)
	Male End					Female End						
	Outside Diameter (A) in	Average Tolerance (mm)	Actual MIN in	O.D. MAX in		Inside Diameter F (in)	Average Tolerance (mm)	Actual MIN in	O.D. MAX in			
1/8	2/8	0.03	2/8	2/8	3/8	2/8	0.03	2/8	2/8	3/8	0	2/8
1/4	3/8		3/8	3/8	3/8	3/8		3/8	3/8	3/8	0	2/8
3/8	4/8		4/8	4/8	3/8	4/8		4/8	4/8	3/8	0	3/8
1/2	5/8		5/8	5/8	4/8	5/8		5/8	5/8	3/8	0	4/8
5/8	6/8		6/8	6/8	5/8	6/8		6/8	6/8	5/8	0	4/8
3/4	7/8		7/8	7/8	6/8	7/8		7/8	7/8	5/8	0	5/8



WROT SOLDER JOINT
NIPPLES AND FITTINGS

90° ELL C X C



PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #	
77100	1/8"	1/4"	0.01	W 02003	----
77101	1/4"	3/8"	0.01	W 02009	----
77102	3/8"	1/2"	0.03	W 02017	----
77104	1/2"	5/8"	0.04	W 02022	----
77107	5/8"	3/4"	0.07	W 02028	----
77108	3/4"	7/8"	0.09	W 02034	----
77110	1"	1-1/8"	0.17	W 02047	----
77113	1-1/4"	1-3/8"	0.27	W 02077	----
77114	1-1/2"	1-5/8"	0.41	W 02085	----
77116	2"	2-1/8"	0.73	W 02086	----

WE-500-R 607-R 107-C

90° STREET ELL FTG. X C



77124	1/4"	3/8"	0.01	W 02312	----
77125	3/8"	1/2"	0.03	W 02321	----
77126	1/2"	5/8"	0.05	W 01652	----
77127	5/8"	3/4"	0.07	W 02330	----
77128	3/4"	7/8"	0.12	W 01654	----
77129	1"	1-1/8"	0.22	W 02344	----
77130	1-1/4"	1-3/8"	0.33	W 02384	----
77131	1-1/2"	1-5/8"	0.45	W 02385	----
77132	2"	2-1/8"	0.87	W 02386	----

90° LONG TURN ELL C X C



77139	1/8"	1/4"	0.01	W 02715	----
77140	1/4"	3/8"	0.02	W 02716	----
77141	5/16"		0.03		----
77142	3/8"	1/2"	0.04	W 02717	----
77143	1/2"	5/8"	0.06	W 02722	----
77144	5/8"	3/4"	0.10	W 02728	----
77145	3/4"	7/8"	0.15	W 02734	----

WE-500-L 607-LT 107-L

90° LONG TURN ST. ELL FTG. X C



77154	3/8"	1/2"	0.04	W 02817	----
77155	1/2"	5/8"	0.06	W 02822	----
77156	5/8"	3/4"	0.11		----
77157	3/4"	7/8"	0.15		----
77158	1"	1-1/8"	0.33		----
77159	1-1/4"	1-3/8"	0.46	W 02828	----
77160	1-1/2"	1-5/8"	0.64	W 02834	----

WE-503-L 607-2LT

WROT SOLDER JOINT

NIPPLES AND FITTINGS

45° ELL C X C



PART#	NOMINAL	APPROX NET WT.	IND #	
77161	1/8"	0.01	W 03005	----
77162	1/4"	0.01	W 03012	----
77163	3/8"	0.02	W 03021	----
77164	1/2"	0.04	W 03026	----
77165	5/8"	0.06	W 03030	----
77166	3/4"	0.10	W 03034	----
77167	1"	0.19	W 03044	----
77168	1-1/4"	0.27	W 03050	----
77169	1-1/2"	0.39	W 03055	----
77170	2"	0.75	W 03059	----

WE-504 606 106

STREET 45° FTG. X C



77177	1/4"	0.01	W 03312	----
77178	3/8"	0.02	W 03321	----
77179	1/2"	0.06	W 03326	----
77180	5/8"	0.06	W 03330	----
77181	3/4"	0.10	W 03334	----
77182	1"	0.18	W 03344	----
77183	1-1/4"	0.27	W 03350	----
77184	1-1/2"	0.38	W 03355	----
77185	2"	0.75	W 03359	----

WE-505 606-2

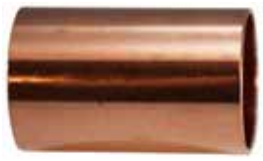
COUPLING (SOCKET) W/ ROLLED UP TUBE STOP C X C



77201	1/8"	0.01	W 01003	----
77202	1/4"	0.01	W 01009	----
77203	3/8"	0.02	W 01017	----
77204	1/2"	0.03	W 01022	----
77205	5/8"	0.04	W 01028	----
77206	3/4"	0.06	W 01034	----
77207	1"	0.10	W 01047	----
77208	1-1/4"	0.15	W 01055	----
77209	1-1/2"	0.22	W 01063	----
77210	2"	0.39	W 01072	----

WC-400 100

COUPLING (SOCKET) LESS TUBE STOP C X C



77219	1/8"	0.01	W 01900	----
77220	1/4"	0.01	W 01901	----
77222	1/2"	0.03	W 01903	----
77223	3/4"	0.06	W 01905	----
77224	1"	0.10	W 01906	----
77225	1-1/4"	0.15	W 01907	----
77226	1-1/2"	0.22	W 01908	----

WC-400NS 601

WROT SOLDER JOINT

NIPPLES AND FITTINGS

COUPLING (SOCKET) W/ DIMPLED TUBE STOP C X C



Part#	Nominal	Approx Net Wt.	Ind #	
77238	1/2"	0.03		----
77240	3/4"	0.06		----
77241	1"	0.10		----
77242	1-1/4"	0.15		----
77244	2"	0.39		----

WC-400S

REDUCER COUPLING W/ STOP C X C



77252	1/4" x 1/8"	0.01	W 01011	----
77254	3/8" x 1/8"			----
77253	3/8" x 1/4"	0.02	W 01019	----
77256	1/2" x 1/4"	0.03	W 01023	----
77255	1/2" x 3/8"	0.03	W 01021	----
77258	5/8" x 1/2"	0.04	W 01025	----
77263	3/4" x 3/8"	0.06	W 01036	----
77262	3/4" x 1/2"	0.06	W 01029	----
77267	1"x1/2"	0.10	W 01049	----
77265	1"x3/4"	0.12	W 01038	----
77270	1 -1/4" x 1/2"	0.14	W 01058	----
77269	1 -1/4" x 3/4"	0.17	W 01056	----
77268	1-1/4" x 1"	0.17	W 01051	----
77273	1 -1/2" x 3/4"	0.25	W 01065	----
77272	1-1/2" x1"	0.24	W 01064	----
77271	1-1/2" x 1-1/4"	0.24	W 01060	----
77277	2" x 1"	0.48	W 01074	----
77276	2 x 1-1/4"	0.46	W 01073	----
77275	2" x 1-1/2"	0.42	W 01069	----
77280	2-1/2"x2"	0.79	W 01075	----

WC-400R 600-R

FITTING REDUCER FTG. C X C

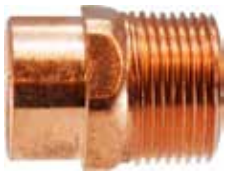


77292	3/8" x 1/8"	0.01	W 01314	----
77291	3/8" x 1/4"	0.02	W 01312	----
77294	1/2" x 1/4"	0.03	W 01317	----
77293	1/2" x 3/8"	0.03	W01315	----
77295	5/8" X 1/2"	0.03	W 01320	----
77298	3/4" x 3/8"	0.05	W 01327	----
77297	3/4" x 1/2"	0.06	W 01326	----
77296	3/4" x 5/8"	0.08	W 01325	----
77352	1" x 1/2"	0.10	W 01265	----
77300	1"x3/4"	0.11	W 01337	----
77355	1 -1/4" x 3/4"	0.15	W 01345	----
77354	1-1/4" x1"	0.17	W 01343	----
77360	1 -1/2" x 1/2"	0.21	W 01355	----
77359	1 -1/2" x 3/4"	0.21	W 01353	----
77358	1-1/2"x1"	0.22	W 01351	----
77357	1 -1/2" X 1-1/4"	0.21	W 01350	----
77365	2" x 1/2"	0.44	W 01364	----
77363	2" x 1"	0.40	W 01360	----
77361	2" x 1-1/2"	0.39	W 01358	----

WC-403 600-2

WROT SOLDER JOINT
NIPPLES AND FITTINGS

MALE ADAPTER
C X M



PART#	NOMINAL	APPROX NET WT.	IND #	
77393	1/8"	0.02		----
77394	1/4"	0.04		----
77398	3/8"	0.06	W 01125	----
77401	1/2"	0.08	WB01131	----
77306	3/4"	0.14	WB01146	----
77309	1"	0.24	WB01163	----
77314	1-1/4"	0.41	W 01171	----
77318	1-1/2"	0.50	W 01179	----
77322	2"	0.87	W 01187	----
77395	1/4" x 1/2"	0.09	W 01113	----
77308	3/8" x 1/2"			
77311	1/2" x 3/8"	0.18		----
77303	1/2" x 3/4"	0.16	W 01130	----
77315	3/4" x 1/2"	0.31		----
77307	3/4" x 1"	0.29	W 01145	----
77312	1" x 3/4"	0.18	W 01164	----

• 14 more reducing sizes available

WC-401 604

FTG. MALE ADAPTER
FTG. X M



77331	1/2"	0.09	W 01431	----
77333	3/4"	0.15	W 01446	----
77334	1"	0.15	W 01463	----
77335	1-1/4"	0.41	W 01471	----
77336	1-1/2"	0.41	W 0147X9	----
77337	2"	0.86	W 01487	----

WC-404 604-2

COPPER TUBING

SEE COPPER TUBING FOR REFRIGERATION AND DRINKING WATER ON PAGE 442





Two roads diverged in a wood and I - I took the one less traveled by, and that has made all the difference.

- Robert Frost

WROT SOLDER JOINT
NIPPLES AND FITTINGS

FEMALE ADAPTERS
C X F



PART#	NOMINAL	APPROX NET WT.	IND #	
77343	1/2"	0.10	WB01231	----
77349	3/4"	0.14	WB01246	----
77402	1"	0.24	WB01263	----
77406	1-1/4"	0.43	W 01271	----
77410	1-1/2"	0.58	W 01279	----
77413	2"	0.74	W 01287	----
77341	3/8" x 1/2"	0.10	W 01224	----
77347	1/2" x 1/4"	0.05	W 01233	----
77346	1/2"x3/8"	0,70	W 01232	----
77345	1/2" x 3/4"	0.15	WB01230	----

FEMALE FTG.
ADAPT. FTG. X F



77419	3/8"	0.05	W 01525	----
77420	1/2"	0.11	W 01531	----
77423	3/4"	0.19	W 01546	----
77424	1			----

• More sizes available

WC402 603 WC402R 603R

CAP



77429	1/4"	0.01	W 07004	----
77430	3/8"	0.01	W 07006	----
77431	1/2"	0.02	WB07007	----
77432	5/8"	0.03	W 07008	----
77433	3/4"	0.04	WB07009	----
77434	1"	0.08	WB07011	----
77435	1-1/4"	0.11	W 07012	----
77436	1-1/2"	0.18	W 07013	----
77437	2"	0.30	W 07014	----

WC405 603-2 WC405R 603R

UNIONS C X C



• LF = Lead Free

77453	1/4"	0.11	W 08001	----
77454	3/8"	0.11	W 08002	----
77455LF	1/2"	0.17	W 08003	----
77456LF	3/4"	0.37	W 08004	----
77457LF	1"	0.51	W 08005	----
77606LF	1-1/4"	0.98	W08006	----
77607LF	1-1/2"	1.21	W08007	----
77608LF	2"		W08008	----

WC-415 617

U-TYPE STRAP



77461	1/2"	0.03	A 02529	----
77462	3/4"	0.03	A 02574	----
77463	1"	0.04	A 02614	----
77464	1-1/4"	0.04	A 02650	----

WC-407

WS-1100

WROT SOLDER JOINT

NIPPLES AND FITTINGS

TEE
C X C X C



PART#	NOMINAL 1 X 2 X 3	APPROX NET WT.	IND #	
77467	1/8"	0.02	W 40306	----
77468	1/4"	0.03	W 04000	----
77470	3/8"	0.05	W 04001	----
77473	1/2"	0.08	WB04006	----
77481	5/8"	0.12	W 04017	----
77483	3/4"	0.18	WB04031	----
77490	1"	0.35	WB04048	----
77504	1-1/4"	0.58	W 04068	----
77519	1-1/2"	0.72	W 04084	----
77543	2"	1.35	W 40102	----
77489	3/4"x1/2"x1/2"	0.15	WB04043	----
77488	3/4" x 1/2" x 3/4"	0.19	WB04041	----
77486	3/4" x 3/4" x 1/2"	0.15	WB04033	----
77485	3/4"x3/4"x1"	0.25	W 04065	----
77501	1"x1/2"x1"	0.34	W 04061	----
77499	1"x3/4"x3/4"	0.31	W 04056	----
77498	1"x3/4"x1"	0.38	W 04055	----
77496	1"x1"x1/2"	0.24	WB04051	----
77493	1"x1"x3/4"	0.29	WB04049	----
77518	1 -1 /4"x 1/2" x 1-1/4"	0.58	W 04083	----
77514	1 -1/4" x 3/4" x 1-1/4"	0.63	W 04078	----
77508	1-1/4" x 1-1/4" x 3/4"	0.39	W 04070	----
77507	1-1/4"x1-1/4"x1"	0.47	W 04069	----
77506	1 -1/4" x1 -1/4" x 1-1/2"	0.79	W 40100	----
77523	1 -1/2" x 1-1/2" x 3/4"	0.51	W 04087	----
77522	1-1/2" x 1-1/2" x1"	0.60	W 04086	----
77549	2"x2"x1/2"	0.77	W 40107	----
77548	2" x 2" x 3/4"	0.90	W 40106	----
77547	2"x2"x1"	0.99	W 40105	----

WT-600 611

DROP EAR ELBOWS



• Lead Free Bronze



• Lead Free Brass

PART #	SWT X FIP	
44840LF	1/2 x 1/2 Bronze	----
44841LF	1/2 x 1/2 Brass	----
44842LF	3/4 x 1/2 Brass	----
44843LF	3/4 x 3/4 Brass	----



• Lead Free Brass

PART #	SWT X SWT	
44844LF	1/2 x 1/2	----



• Lead Free Bronze

PART #	PEX X FIP	
44845LF	1/2 x 1/2	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

PLASTIC FITTINGS



SCH 80 PVC NIPPLES



Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70

PIPE FITTINGS



- Nylon
- Polyethylene
- Polypropylene

HOSE BARB FITTINGS



- Nylon
- Polyethylene
- Polypropylene

NYLON & POLYPROPYLENE COMPRESSION FITTINGS



Machined Schedule 80 PVC nipples comply fully with ASTM D2464,

POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES



- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

GARDEN HOSE FITTINGS



- Nylon

SCH 40 PVC FITTINGS



- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

Resistant to corrosion, strong and rigid - commonly used in low pressure plumbing applications. ASTM D1784 and D2466.

SCH 80 PVC FITTINGS



PVC Material is Type 1 according to the American Society for Testing Materials (ASTM) D-1784. Fittings conform to ASTM D-2464 & ASTM D-2467. Temperature rating is 140°F. PSI is based on water at 73°F. Derate 50% at 110°F and 78% at 140°F. Not recommended for use in compressed air or gas systems.

SCHEDULE 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70



- Dark Grey
- NSF-61 Cert.

1/2" DIAMETER 420 PSI

PART #	LENGTH	
55060	X Close (1-1/8")	----
55061	1-1/2"	----
55062	2"	----
55063	2-1/2"	----
55064	3"	----
55065	3-1/2"	----
55066	4"	----
55067	4-1/2"	----
55068	5"	----
55069	5-1/2"	----
55070	6"	----
55072	8"	----
55074	10"	----
55075	12"	----
55076	12"	----
55240	18"	----
55241	24"	----
55243	36"	----
55244	48"	----
55245	60"	----

3/4" DIAMETER 340 PSI

PART #	LENGTH	
55080	x Close (1-3/8")	----
55081	1-1/2"	----
55082	2"	----
55083	2-1/2"	----
55084	3"	----
55085	3-1/2"	----
55086	4"	----
55087	4-1/2"	----
55088	5"	----
55089	5-1/2"	----
55090	6"	----
55092	8"	----
55093	10"	----
55096	12"	----
55097	18"	----
55098	24"	----
55099	36"	----
55246	48"	----
55247	60"	----

1" DIAMETER 315 PSI

PART #	LENGTH	
55100	X Close (1-1/2")	----
55101	2"	----
55102	2-1/2"	----
55103	3"	----
55104	3-1/2"	----
55105	4"	----
55106	4-1/2"	----
55107	5"	----
55108	5-1/2"	----
55109	6"	----
55111	8"	----
55115	12"	----
55116	18"	----
55117	36"	----
55118	48"	----

1-1/4" DIAMETER 210 PSI

PART #	LENGTH	
55120	X Close (1-5/8")	----
55121	2"	----
55122	2-1/2"	----
55123	3"	----
55124	3-1/2"	----
55125	4"	----
55126	4-1/2"	----
55127	5"	----
55128	5-1/2"	----
55129	6"	----
55131	8"	----
55132	12"	----
55133	18"	----
55134	36"	----
55135	48"	----

PLASTIC PIPE
PLASTIC FITTINGS

1-1/2" DIAMETER 234 PSI

Part #	Length	
55140	X Close (1-5/8")	----
55141	2"	----
55142	2-1/2"	----
55143	3"	----
55144	3-1/2"	----
55145	4"	----
55146	4-1/2"	----
55147	5"	----
55148	5-1/2"	----
55149	6"	----
55150	8"	----
55151	12"	----
55152	18"	----
55153	24"	----
55154	36"	----
55155	48"	----

2" DIAMETER 200 PSI

Part #	Length	
55160	X Close (2")	----
55161	2-1/2"	----
55162	3"	----
55163	3-1/2"	----
55164	4"	----
55165	4-1/2"	----
55166	5"	----
55167	5-1/2"	----
55168	6"	----
55170	8"	----
55174	12"	----
55175	18"	----
55176	24"	----
55177	36"	----
55178	48"	----
55179	60"	----

2-1/2" DIAMETER

Part #	Length	Box/Case	
55180	x Close (2")	25	----
55181	3"	30	----
55182	4"	25	----
55183	5"	25	----
55184	6"	25	----
55185	8"	16	----
55186	10"	16	----
55187	12"	16	----
55190	18"	20	----
55191	24"	10	----
55192	36"	3	----
55193	48"	3	----
55194	60"		----

3" DIAMETER

Part #	Length	Box Qty	
55200	x Close	25	----
55201	3"	20	----
55203	4"	30	----
55205	5"	20	----
55207	6"	20	----
55209	8"	10	----
55211	10"	10	----
55213	12"	10	----
55214	18"		----
55215	24"		----
55216	36"		----
55217	48"		----
55218	60"		----

4" DIAMETER

Part #	Length	Box Qty	
55230	x Close	25	----
55231	4"	18	----
55232	5"	20	----
55233	6"	20	----
55234	8"	10	----
55235	12"	10	----
55236	18"		----
55237	24"		----
55238	36"		----
55239	48"		----
55242	60"		----

If there were no night, we would not appreciate the day, nor could we see the stars and the vastness of the heavens. We must partake of the bitter with the sweet. There is a divine purpose in the adversities we encounter every day. They prepare, they purge, they purify, and thus they bless.

- James E. Faust

PIPE–NYLON POLY

AVAILABLE IN THREE TYPES OF PLASTIC

(W) White Nylon

Made from virgin grade formulated to resist physical stress and abrasion. This material meets F.D.A. requirements of Code of Federal Regulation part 177.1500 and is therefore suitable for food contact surfaces.

Temperature Range: -40°F to 200° F

Working Pressure: 125 PSI maximum.

(B) Black Polyethylene

Made from a high molecular weight linear polyethylene formulated for chemical compatibility and high impact resistance at lower temeratures. Polyethylene is NSF approved for potable water.

Temperature Range: -65°F to 190°F

Working Pressure: 125 PSI maximum.

(P) Polypropylene

Made from the finest polypropylene resins. Polypropylene is used for its resistance to a wide range of chemicals. Working pressures decrease as temperatures increase.

- NSF-approved materials
- FDA-approved materials

Note: Do not use with compressed air or gas.

- 10% Fiberglass fill for extra strength

ELBOW

P



POLYPROPYLENE ELBOWS

Part #	Size	
28702P	3/8"	----
28704P	3/4"	----

W



NYLON ELBOWS

Part #	Size	
28701W	1/4"	----
28703W	1/2"	----
28704W	3/4"	----
28705W	1"	----
28706W	1-1/4"	----
28707W	1-1/2"	----

TEE

P



POLYPROPYLENE TEES

Part #	Size	
28741P	1/4"	----
28742P	3/8"	----
28743P	1/2"	----
28744P	3/4"	----

W



NYLON TEES

Part #	Size	
28741W	1/4"	----
28743W	1/2"	----
28744W	3/4"	----
28745W	1"	----
28746W	1-1/4"	----
28747W	1-1/2"	----

STREET ELBOW

P



POLYPROPYLENE STREET ELBOW

Part #	Size	
28819P	1/8"	----
28723P	1/2"	----
28820P	2"	----
28821P	3"	----

W



NYLON STREET ELBOW

Part #	Size	
28819W	1/8"	----
28720W	1/4"	----
28721W	3/8"	----
28723W	1/2"	----
28724W	3/4"	----
28725W	1"	----
28726W	1-1/4"	----
28727W	1-1/2"	----
28820W	2"	----

HEX HEAD PLUGS

• Cored

B



POLYETHYLENE PLUGS

Part #	Size	
28601B	1/8"	----
28602B	1/4"	----
28603B	3/8"	----
28604B	1/2"	----
28605B	3/4"	----

W



NYLON PLUGS

Part #	Size	
28601W	1/8"	----
28602W	1/4"	----
28603W	3/8"	----
28604W	1/2"	----
28605W	3/4"	----
28606W	1"	----
28607W	1-1/4"	----
28608W	1-1/2"	----
28609W	2 "	----

PLASTIC PIPE
PLASTIC FITTINGS

HEX BUSHING

P



POLYPROPYLENE BUSHINGS

Part #	Size	
28659P	1/4 x 1/8"	----
28660P	3/8 x 1/8"	----
28661P	3/8 x 1/4"	----
28811P	1/2 x 1/8"	----
28663P	1/2 x 1/4"	----
28664P	1/2 x 3/8"	----
28666P	3/4 x 1/4"	----
28668P	3/4 x 1/2"	----
28812P	1 x 3/8"	----
28671P	1 x 1/2"	----
28672P	1 x 3/4"	----
28675P	1-1/4" x 1"	----
28814P	1-1/2" x 1/2"	----
28678P	1-1/2 x 3/4"	----
28680P	1-1/2 x 1-1/4"	----
28816P	2 x 1-1/4"	----

W



NYLON BUSHINGS

Part #	Size	
28659W	1/4 x 1/8"	----
28660W	3/8 x 1/8"	----
28661W	3/8 x 1/4"	----
28811W	1/2 x 1/8"	----
28663W	1/2 x 1/4"	----
28664W	1/2 x 3/8"	----
28665W	3/4 x 1/8"	----
28666W	3/4 x 1/4"	----
28667W	3/4 x 3/8"	----
28668W	3/4 x 1/2"	----
28671W	1 x 1/2"	----
28672W	1 x 3/4"	----
28674W	1-1/4 x 3/4"	----
28675W	1-1/4 x 1"	----
28678W	1-1/2 x 3/4"	----
28679W	1-1/2 x 1"	----
28680W	1-1/2 x 1-1/4"	----
28815W	2" x 1/2"	----
28682W	2 x 3/4"	----
28683W	2 x 1"	----
28685W	2 x 1-1/2"	----

HEX NIPPLES

B



POLYETHYLENE HEX NIPPLES

Part #	Size	
28611B	1/8"	----
28612B	1/4"	----
28613B	3/8"	----
28614B	1/2"	----

P



POLYPROPYLENE HEX NIPPLES

Part #	Size	
28612P	1/4"	----
28613P	3/8"	----
28614P	1/2"	----
28615P	3/4"	----
28619P	2"	----

W



NYLON HEX NIPPLES

Part #	Size	
28611W	1/8"	----
28612W	1/4"	----
28613W	3/8"	----
28614W	1/2"	----
28615W	3/4"	----
28616W	1"	----
28617W	1 1/4 "	----
28618W	1 1/2"	----

REDUCER NIPPLES

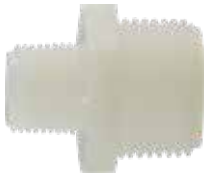
B



POLYETHYLENE HEX NIPPLES

Part #	Size	
28623B	1/2 x 1/4"	----
28624B	1/2 x 3/8"	----
28628B	3/4 x 3/8"	----
28625B	3/4 x 1/2"	----

W



NYLON REDUCING HEX NIPPLES

Part #	Size	
28620W	1/4 x 1/8"	----
28621W	3/8 x 1/8"	----
28622W	3/8 x 1/4"	----
28623W	1/2 x 1/4"	----
28624W	1/2 x 3/8"	----
28628W	3/4 x 3/8"	----
28625W	3/4 x 1/2"	----
28-663W	1-1/4 x 1"	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

PLASTIC PIPE/ HOSE BARB

PLASTIC FITTINGS

COUPLING

P



POLYPROPYLENE COUPLINGS

Part #	Size	
28761P	1/4"	----
28762P	3/8"	----
28763P	1/2"	----
28764P	3/4"	----



W

NYLON COUPLINGS

Part #	Size	
28761W	1/4"	----
28762W	3/8"	----
28763W	1/2"	----
28764W	3/4"	----
28765W	1"	----
28803W	1-1/4"	----
28767W	1-1/2"	----
28768W	2"	----

Accept the things to which fate binds you, and love the people with whom fate brings you together, but do so with all your heart.

- Marcus Aurelius

PIPE CAP

W



NYLON CAPS

Part #	Size	
28640W	1/4"	----
28641W	3/8"	----
28642W	1/2"	----
28643W	3/4"	----

PLASTIC BULKHEAD FITTINGS



P

20% Glass Filled Polypropylene w/ Santoprene Gasket

Part #	Fpt	Hole	
28693P	1/2"	1-3/8"	----
28694P	3/4"	1-3/8"	----
28695P	1"	1-3/4"	----
28696P	1-1/4"	2"	----
28697P	1-1/2"	3"	----
28698P	2"	3"	----
28699P	3"	4-1/2"	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

MALE ADAPTERS



B

POLYETHYLENE BARB X MALE PIPE

Part #	Size	
33002B	3/16 x 1/8"	----
33003B	3/16 x 1/4"	----
33004B	1/4 x 1/8"	----
33005B	1/4 x 1/4"	----
33006B	1/4 x 3/8"	----
33007B	1/4 x 1/2"	----
33008B	5/16 x 1/8"	----
33009B	5/16 x 1/4"	----
33012B	3/8 x 1/4"	----
33013B	3/8 x 3/8"	----
33014B	3/8 x 1/2"	----
33026B	3/8 x 3/4"	----
33015B	1/2 x 1/4"	----
33016B	1/2 x 3/8"	----
33017B	1/2 x 1/2"	----
33018B	1/2 x 3/4"	----
33019B	5/8 x 3/8"	----
33020B	5/8 x 1/2"	----
33021B	5/8 x 3/4"	----
33022B	3/4 x 1/2"	----
33023B	3/4 x 3/4"	----
33024B	1 x 3/4"	----



P

POLYPROPYLENE HOSE BARB
Hose ID x MIP

Part #	Size	
33012P	3/8 x 1/4"	----
33013P	3/8 x 3/8"	----
33014P	3/8 x 1/2"	----
33015P	1/2 x 1/4"	----
33016P	1/2 x 3/8"	----
33017P	1/2 x 1/2"	----
33018P	1/2 x 3/4"	----
33303P	1/2" x 1"	----
33020P	5/8 x 1/2"	----
33022P	3/4 x 1/2"	----
33023P	3/4 x 3/4"	----
33000P	3/4 x 1"	----
33024P	1 x 3/4"	----
33025P	1 x 1"	----
33323P	3" x 3"	----

PLASTIC BARBS
PLASTIC FITTINGS

W



NYLON BARB MALE ADAPTERS
Hose ID x MIP

Part #	Size	
33002W	3/16 x 1/8"	----
33003W	3/16 x 1/4"	----
33004W	1/4 x 1/8"	----
33005W	1/4 x 1/4"	----
33006W	1/4 x 3/8"	----
33007W	1/4 x 1/2"	----
33380W	1/4 x 3/4"	----
33008W	5/16 x 1/8"	----
33009W	5/16 x 1/4"	----
33010W	5/16 x 3/8"	----
33011W	3/8 X 1/8"	----
33012W	3/8 x 1/4"	----
33013W	3/8 x 3/8"	----
33014W	3/8 x 1/2"	----
33026W	3/8 x 3/4"	----
33015W	1/2 x 1/4"	----
33016W	1/2 x 3/8"	----
33017W	1/2 x 1/2"	----
33018W	1/2 x 3/4"	----
33303W	1/2" x 1"	----
33019W	5/8 x 3/8"	----
33020W	5/8 x 1/2"	----
33021W	5/8 x 3/4"	----
33306W	3/4" x 3/8"	----
33022W	3/4 x 1/2"	----
33023W	3/4 x 3/4"	----
33000W	3/4 x 1"	----
33318W	3/4" x 1-1/4"	----
33319W	3/4" x 1-1/2"	----
33307W	1" x 1/2"	----
33024W	1 x 3/4"	----
33025W	1 x 1"	----
33029W	1 x 1-1/4"	----
33320W	1" x 1-1/2"	----
33027W	1-1/8" x 1"	
33349W	1-1/4" x 3/4"	----
33028W	1-1/4 x 1"	----
33030W	1-1/4 x 1-1/4"	----
33032W	1-1/4 x 1-1/2"	----
33321W	1-1/2" x 1-1/4"	----
33033W	1-1/2 x 1-1/2"	----

ELBOWS

B



POLYETHYLENE ELBOWS
Hose ID x MALE PIPE

Part #	Size	
33308B	3/16 x 1/8	----
33038B	1/4 x 1/8	----
33039B	1/4 x 1/4	----
33309B	1/4 x 3/8	----
33046B	3/8 x 1/8	----
33041B	3/8 x 1/4	----
33042B	3/8 x 3/8	----
33047B	3/8 x 1/2	----
33043B	1/2 x 3/8	----
33311B	1/2 x 1/2	----
33385B	1/2 x 3/4	----
33044B	5/8 x 3/8	----
33045B	5/8 x 1/2	----
33312B	5/8 x 3/4	----
33313B	3/4 x 1/2	----
33314B	3/4 x 3/4	----

P



POLYPROPYLENE BARB ELBOW

Part #	Size	
33048P	1/2 x 1/4	----
33311P	1/2 x 1/2	----
33385P	1/2 x 3/4	----
33313P	3/4 x 1/2	----
33314P	3/4 x 3/4	----
33316P	1 x 1	----
33334P	1-1/4 x 1	----
33461P	1-1/4 x 1-1/4	----
33463P	1-1/2 x 1-1/2	----

W



NYLON BARB X MIP ELBOWS

Part #	Size	
33381W	3/16 x 1/4	----
33038W	1/4 x 1/8	----
33039W	1/4 x 1/4	----
33309W	1/4 x 3/8	----
33351W	1/4 x 1/2	----
33040W	5/16 x 1/4	----
33310W	5/16 x 3/8	----
33046W	3/8 x 1/8	----
33041W	3/8 x 1/4	----
33042W	3/8 x 3/8	----
33047W	3/8 x 1/2	----
33384W	3/8 x 3/4	----
33048W	1/2 x 1/4	----
33043W	1/2 x 3/8	----
33311W	1/2 x 1/2	----
33385W	1/2 x 3/4	----
33044W	5/8 x 3/8	----
33045W	5/8 x 1/2	----
33312W	5/8 x 3/4	----
33329W	5/8" x 1"	----
33313W	3/4 x 1/2	----
33314W	3/4 x 3/4	----
33315W	3/4 x 1	----
33386W	1x3/4	----
33316W	1 x 1	----
33460W	1 x 1-1/4	----
33050W	1-1/8" x 1"	
33461W	1-1/4 x 1-1/4	----
33462W	1-1/2 x 1-1/4	----
33463W	1-1/2 x 1-1/2	----
33464W	2 x 2	----

P = Polypropylene
W = White Nylon
B = Black Polyethylene

HOSE BARB X FE ADAPTERS



B

POLYETHYLENE ADAPTER
Hose ID x FIP

Part #	Size	
33053B	1/4 x 1/4"	----



W

NYLON ADAPTER
Barb x FIP

Part #	Size	
33052W	1/4 x 1/8"	----
33053W	1/4 x 1/4"	----
33058W	3/8 x 1/4"	----
33059W	3/8 x 3/8"	----
33060W	3/8 x 1/2"	----
33442W	3/8 x 3/4"	----
33066W	1/2 x 1/4"	----
33062P	1/2 x 3/8"	----
33061W	1/2 x 1/2"	----
33067W	1/2 x 3/4"	----
33068W	5/8 x 1/2"	----
33063W	5/8 x 3/4"	----
33064W	3/4 x 1/2"	----

HOSE BARB X FE ELBOW



P

W

NYLON ELBOW
Hose ID x Female Pipe

Part #	Size	
33342W	3/8 x 1/2"	----
33402W	1/2 x 3/8"	----
33403W	1/2 x 3/4"	----
33343P	1/2 x 1/2"	----
33343W	1/2 x 1/2"	----
33344P	5/8 x 3/4"	----
33344W	5/8 x 3/4"	----
33470W	5/8 x 1/2"	----
33345W	3/4 x 1/2"	----
33471W	3/4 x 3/4"	----

UNION ELBOWS



B

POLYETHYLENE ELBOW

Part #	Size	
33390B	1/4	----
33391B	3/8	----
33394B	1/2	----
33395B	5/8	----
33396B	3/4	----



W

NYLON ELBOW

Part #	Size	
33390W	1/4	----
33391W	3/8	----
33394W	1/2	----
33395W	5/8	----
33396W	3/4	----
33397W	1	----
33398W	1-1/4	----
33399W	1-1/2	----

SPLICERS



B

POLYETHYLENE SPLICER

Part #	Size	
33091B	1/8	----
33092B	3/16	----
33093B	1/4	----
33095B	3/8	----
33096B	1/2	----
33097B	5/8	----



POLYPROPYLENE SPLICER

Part #	Size	
33095P	3/8	----
33096P	1/2	----
33098P	3/4	----
33099P	1	----

SPLICERS



W

NYLON SPLICES

Part #	Size	
33091W	1/8	----
33092W	3/16	----
33093W	1/4	----
33094W	5/16	----
33095W	3/8	----
33096W	1/2	----
33097W	5/8	----
33098W	3/4	----
33099W	1	----
33480W	1-1/4	----
33481W	1-1/2	----

REDUCING SPLICERS



B

POLYETHYLENE SPLICES

Part #	Size	
33406B	3/8 x 1/4	----
33407B	1/2 x 1/4	----
33408B	1/2 x 3/8	----
33410B	5/8 x 1/2	----



W

NYLON SPLICES

Part #	Size	
33079W	1/4 x 1/8	----
33347W	1/4 x 3/16	----
33406W	3/8 x 1/4	----
33348W	3/8 x 5/16	----
33407W	1/2 x 1/4	----
33408W	1/2 x 3/8	----
33409W	5/8 x 3/8	----
33410W	5/8 x 1/2	----
33089W	3/4 x 1/2	----

PLASTIC BARBS
PLASTIC FITTINGS

TEES BARBED ON ALL SIDES

B



POLYETHYLENE TEE

Part #	Size	
33415B	1/8	----
33418B*	3/16	----
33420B	3/16	----
33422B	1/4	----
33426B	5/16	----
33429B	3/8	----
33433B	1/2	----
33436B	5/8	----
33437B	3/4	----
33438B	1	----

P



POLYPROPYLENE TEE

Part #	Size	
33429P	3/8	----
33440P	1-1/2	----

ALL HOSE BARB "Y"

P



POLYPROPYLENE WYE

Part #	Size	
33300P*	1/4"	----
33301P*	3/8"	----
33302P*	1/2"	----

**Natural Polypro*

W



NYLON WYE

Part #	Size	
33301W	3/8"	----

W



NYLON TEE

Part #	Size	
33415W	1/8	----
33417W	5/32	----
33420W	3/16	----
33422W	1/4	----
33426W	5/16	----
33429W	3/8	----
33433W	1/2	----
33436W	5/8	----
33437W	3/4	----
33438W	1	----
33439W	1-1/4	----
33440W	1-1/2	----

REDUCING TEES

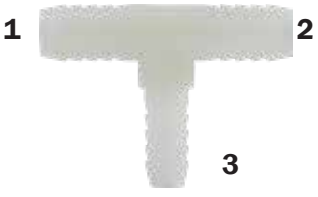
B



POLYETHYLENE TEE

Part #	Size	
33423B	3/8 x 3/8 x 1/4	----
33430B	1/2 x 1/2 x 3/8	----
33432B	3/8 x 3/8 x 1/2	----
33434B	1/2 x 1/2 x 5/8	----
33435B	3/4 x 3/4 x 1/2	----

W



NYLON TEE

Part #	Size	
33430W	1/2 x 1/2 x 3/8	----
33431W	5/8 x 5/8 x 3/8	----
33432W	3/8 x 3/8 x 1/2	----
33435W	3/4 x 3/4 x 1/2	----

MALE BRANCH TEE

W



NYLON BRANCH TEE

Part #	Size	
33448W	1/4 x 1/4	----
33450W	3/8 x 1/4	----
33451W	3/8 x 3/8	----
33453W	1/2 x 1/4	----
33454W	1/2 x 3/8	----
33455W	1/2 x 1/2	----
33458W	5/8" x 3/4"	----
33456W	3/4 x 3/4	----

Tomorrow is the most important thing in life. Comes into us at midnight very clean. It's perfect when it arrives and it puts itself in our hands. It hopes we've learned something from yesterday.

- John Wayne

GARDEN HOSE

PLASTIC GARDEN HOSE FITTINGS

FITTINGS WITH GARDEN HOSE THREAD

GARDEN HOSE CAP

- Washer not included



- White Nylon

P

Part #	Size	
30103P	3/4"	----

GARDEN HOSE THREAD ADAPTERS

BARB X MALE GARDEN HOSE



- White Nylon

Part #	Size	
31038	1/4"	----
31039	3/8"	----
31040	1/2"	----
31041	5/8"	----
31042	3/4"	----

GARDEN HOSE ADAPTER INSERTS

- for assembly with 31-022



- White Nylon

Part #	Size	
31030	1/4"	----
31031	3/8"	----
31032	1/2"	----
31033	5/8"	----
31034	3/4"	----
31035	1/2" MPT	----

GARDEN HOSE NUT



- White Nylon

Part #	Size	
31022	3/4"	----
31023	3/4" FIP	----

MALE GARDEN HOSE X FEMALE PIPE



- White Nylon

Part #	Size	
31067	MGH X 1/4	----
31068	MGH X 1/2 FIP	----
31069	MGH X 3/4	----

FEMALE GARDEN HOSE X MALE PIPE



- White Nylon

Part #	Size	
31093	FGH X 3/4 MPT	----
31095	FGH X 3/4 MGH	----

FEMALE GARDEN HOSE X FEMALE PIPE



- White Nylon

Part #	Size	
31096	FGH X 1/2 FIP	----
31097	FGH X 3/4 FIP	----

MALE GARDEN HOSE X MALE PIPE



- White Nylon

Part #	Size	
31055	GHT X 3/8 MPT	----
31058	GHT X 1/2 MPT	----
31063	GHT X 3/4 MPT	----
31064	GHT X 1 MPT	----

PLASTIC COMPRESSION
PLASTIC FITTINGS

PLASTIC COMPRESSION FITTINGS

Corrosion resistant thermoresins designed to resist vibration, provide good electrical insulation, low flow resistance, and resistance to scale buildup.

The letter on the end of part no. denotes the type.
N = Nylon
P = Polypropylene
Standard nut and sleeves will be provided (sleeve is integral part of nut). Other sizes available upon request.

FDA and NSF Listed

UNION & REDUCING UNION CONNECTORS

P



Part #	Size	
17064P	1/4"	----
17066P	3/8"	----
17079P	3/8" x 1/4"	----
17068P	1/2"	----

• Nylon



Part #	Size	
17064N	1/4"	----
17065N	5/16"	----
17078N	5/16" x 1/4"	----
17066N	3/8"	----
17079N	3/8" x 1/4"	----
17068N	1/2"	----

BULKHEAD UNIONS



• Nylon

Part #	Size	
17088N	1/4"	----
17090N	3/8"	----
17091N	1/2"	----

UNION TEES



• Nylon

Part #	Size	
17103N	1/4"	----
17105N	3/8"	----
17106N	1/2"	----

UNION ELBOWS

P



Part #	Size	
17124P	1/4"	----
17126P	3/8"	----
17127P	1/2"	----



• Nylon

PART #	SIZE	
17124N	1/4"	----
17126N	3/8"	----

FEMALE CONNECTORS

P



Part #	Size	
17145P	1/4 x 1/8	----
17153P	3/8 x 1/4	----
17154P	3/8 x 3/8	----
17158P	1/2 x 3/8	----



• Nylon

Part #	Size	
17146N	1/4 x 1/4	----
17153N	3/8 x 1/4	----

MALE CONNECTORS

P



Part #	Size	
17179P	1/4 x 1/8	----
17180P	1/4 x 1/4	----
17188P	3/8 x 1/4	----
17189P	3/8 x 3/8	----
17190P	3/8 x 1/2	----
17193P	1/2 x 1/4	----
17194P	1/2 x 3/8	----



• Nylon

Part #	Size	
17176N	1/8 x 1/8"	
17179N	1/4 x 1/8	----
17180N	1/4 x 1/4	----
17188N	3/8 x 1/4	----
17189N	3/8 x 3/8	----
17190N	3/8 x 1/2	----
17193N	1/2 x 1/4	----
17194N	1/2 x 3/8	----

MALE ELBOWS

P



Part #	Size	
17225P	1/4 x 1/4	----
17233P	3/8 x 1/4	----
17234P	3/8 x 3/8	----
17237P	1/2 x 3/8	----
17238P	1/2 x 1/2	----



• Nylon

Part #	Size	
17224N	1/4 x 1/8	----
17225N	1/4 x 1/4	----
17233N	3/8 x 1/4	----
17234N	3/8 x 3/8	----
17237N	1/2 x 3/8	----
17238N	1/2 x 1/2	----

PLASTIC PUSH-IN TUBE FITTINGS

Manufactured from safe, non-toxic materials meeting the requirements of the US FDA, WRAS, ANSI/NSF-51, 61, and SK Zert. Our products are widely used in water purification, food/beverage and pneumatic systems.

- Function & Quality : provides quick and convenient assembly - saving time & expense. Our ISO9001, 14001 registered quality system ensures our customers a superior level of product quality. Defects are easily detectable and maintenance is easy with its easy dismantling for access.
- Collet Design : Unique oval collet design is superior and more practical.
- Applications : Beyond water and food use, fittings can be used with air, gases, vacuum, & liquids. And all connections can be assembled & disassembled repeatedly.
- Material : Grey Acetal Copolymer, also known as POM. Highly durable and resistant to fatigue and creep. It has high resistance to a wide range of organic & inorganic chemicals and detergents. Not recommended for use with strong acids or repeated exposure to strong oxidizers. (polypropylene may be subbed)

SIZE / Temperature	Small Size						Large Size				
	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	7/8"			28mm
	4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	22mm	
1℃ (34℉)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
20℃ (68℉)	16bar (230PSI)				11bar (170PSI)		11bar (170PSI)				
65℃ (150℉)	10bar (150PSI)				7bar (100PSI)		7bar (100PSI)				

- Fittings are not recommended for use with liquids other than water and food or beverage products.
- Do not use pipe dope or other liquid thread sealers. Use only Teflon tape to seal threaded connections.
- After assembling a tube connection, tug with moderate force to check for proper gripping of the tube.
- Before disassembling tube connections, always verify that pressure has been removed from the system.

UNION CONNECTOR



Part #	Tube OD	
20018P	5/32"	----
20702P	3/16"	----
20019P	1/4"	----
20020P	3/8"	----
20021P	1/2"	----

REDUCING UNION



Part #	Tube OD	Tube OD	
20750P	1/4"	3/16"	----
20754P	3/8"	3/16"	----
20755P	3/8"	1/4"	----
20756P	3/8"	5/16"	----
20758P	1/2"	3/8"	----

BULKHEAD UNION



Part #	Tube OD	
20127P	1/4"	----
20128P	3/8"	----

UNION TEE



Part #	Tube OD	
20028P	1/4"	----
20029P	3/8"	----
20030P	1/2"	----

REDUCING BRANCH TEE



Part #	Tube OD 1	Tube OD 2	
20725P	3/8"	1/4"	----
20724P	1/2"	3/8"	----

UNION ELBOW



Part #	Tube OD	
20152P	1/4"	----
20153P	3/8"	----
20154P	1/2"	----

REDUCING ELBOW



Part #	Tube OD	Tube OD	
20733P	3/8"	3/16"	----
20734P	3/8"	1/4"	----
20736P	1/2"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

FEMALE CONNECTOR



Female Pipe

PART #	TUBE OD	THREAD NPTF	
20993P	1/4"	1/8"	----
20035P	1/4"	1/4"	----
20944P	3/8"	1/8"	----
20036P	3/8"	1/4"	----



Female Flare

PART #	TUBE OD	FE FLARE	
20936P	1/4"	1/4"	----
20937P	3/8"	1/4"	----
20938P	3/8"	3/8"	----



Female UNS Cone Type

PART #	TUBE OD	UNS	
20939P	1/4"	7/16"	----
20940P	3/8"	7/16"	----



Female Comp

PART #	TUBE OD	FE COMP	
20941P	3/8"	9/16-24"	----



20-152P + 20-525P = 20-964P

MALE CONNECTOR



Male Pipe

PART #	TUBE OD	THREAD NPTF	
20050P	5/32"	1/8"	----
20054P	1/4"	1/8"	----
20055P	1/4"	1/4"	----
20056P	1/4"	3/8"	----
20057P	3/8"	1/8"	----
20058P	3/8"	1/4"	----
20059P	3/8"	3/8"	----
20062P	3/8"	1/2"	----
20061P	1/2"	3/8"	----
20063P	1/2"	1/2"	----



Male BSP

AMCB

PART #	TUBE OD	BSP	
20958P	3/8"	3/8"	----



AMCF

PART #	TUBE OD	MALE FLARE	
20960P	3/8"	1/4"	----
20961P	3/8"	1/2"	----

STEM ADAPTER



Part #	stem OD	Thread NPTF	
20524P	1/4"	1/8"	----
20525P	1/4"	1/4"	----
20528P	3/8"	1/4"	----
20529P	3/8"	3/8"	----

REDUCER



PART #	TUBE OD 1	STEM OD 2	
20512P	3/8"	1/4"	----
20763P	3/8"	5/16"	----
20514P	1/2"	3/8"	----

TUBE BARB CONNECTOR



ATBC

PART #	STEM OD	HOSE BARB ID	
20964P	1/4"	1/4"	----
20965P	3/8"	1/4"	----
20966P	3/8"	3/8"	----
20967P	3/8"	1/2"	----
20968P	1/2"	3/8"	----
20969P	1/2"	1/2"	----

FIXED ELBOW



Part #	Tube OD	Thread NPTF	
20068P	1/4"	1/8"	----
20069P	1/4"	1/4"	----
20070P	1/4"	3/8"	----
20072P	3/8"	1/4"	----
20073P	3/8"	3/8"	----

SWIVEL ELBOW

Union Elbow + Stem Adapter



AMES

PART #	STEM OD	TUBE ID	
20973P	1/4"	1/4"	----
20974P	3/8"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

PLUG-IN ELBOW



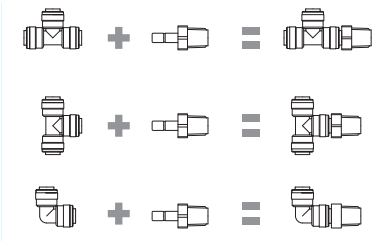
PART #	TUBE OD	STEM	
20740P	5/32"	5/32"	----
20742P	1/4"	1/4"	----
20745P	3/8"	1/4"	----
20747P	3/8"	3/8"	----
20748P	1/2"	1/2"	----

TUBE ELBOW BARB CONNECTOR



PART #	STEM OD	HB ID	
20970P	1/4"	1/4"	----
20971P	3/8"	1/4"	----
20972P	3/8"	3/8"	----

ADAPTABILITY
- For maximum flexibility, fittings may be combined to provide wider functions.
- Unlike some competitors products, separation and reuse is easy.



2-WAY DIVIDER



PART #	TUBE OD	LIST PRICE
20775P	1/4"	----
20776P	5/16"	----
20777P	3/8"	----

PLUG



PART #	TUBE OD	
20876P	5/32"	----
20878P	1/4"	----
20880P	3/8"	----
20881P	1/2"	----

TUBE END STOP



PART #	TUBE OD	
20925P	1/4"	----
20927P	3/8"	----



PART #	TUBE OD	FGH	
20950P	1/4"	3/4"	----
20951P	3/8"	3/4"	----



PART #	TUBE OD	BSP	
20953P	1/4"	1/2"	----
20954P	1/4"	3/4"	----
20955P	3/8"	3/4"	----
20956P	5/8"	3/4"	----

PL X PL



PART #	TUBE OD	
20900P	1/4"	----
20901P	3/8"	----

PL X MALE NPTF



PART #	TUBE OD	MALE THREAD NPTF	
20904P	1/4"	1/4"	----
20905P	3/8"	3/8"	----

PLASTIC PUSH-IN
PLASTIC FITTINGS

CHECK VALVE



PART #	TUBE OD	
20778P	1/4"	----
20779P	3/8"	----

STOP VALVES

CONNECTOR: Flows in both directions by connection.

DISCONNECTOR: Stop flows in both directions by with separation where pulling to the open position.



ASTVBU

PART #	TUBE OD	
20910P	1/4"	----

LOCKING CLIP



ALC

PART #		
20975P	1/4"	----
20976P	3/8"	----
20977P	1/2"	----

FLOW BEND CLIP



AFBC

PART #		
20980P	1/4"	----
20981P	3/8"	----

SPANNER



PART #	SIZES	
20983P	3/16,1/4,5/16 3/8,1/2	----

STOP & FAUCET ADAPTER VALVES

AV range of Stop & Faucet Valve Adaptor valves and Slip Tee Valves are manufactured in white Polypropylene, reinforced plastic with EPDM O-rings which provides value- added advantages in the installation of water supply line mainly.

AV range of Stop & Faucet Valve Adaptors and Slip Tee Valves are designed for use in drinking water systems, Refrigerators, Ice-Makers, Humidifiers and Water filtration applications, etc.,. Our valves offer greater efficiency than any traditional valves.
AV valves have been approved in NSF/ANSI 61 & 372.
AV range is 1/4" Turn valves.

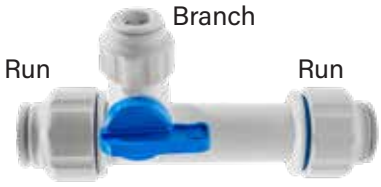
STOP VALVE ADAPTER



3/8 MALE COMP X
3/8 FEMALE COMP

PART #	TUBE OD	
20985P	1/4"	----
20986P	3/8"	----

SLIPTEE VALVE



PART #	RUN X RUN	BRANCH	
20988P	5/8"	1/4"	----
20989P	5/8"	3/8"	----
20990P	7/8"	1/4"	----

A man has to learn that he cannot command things, but that he can command himself; that he cannot coerce the wills of others, but that he can mold and master his own will: and things serve him who serves Truth; people seek guidance of him who is master of himself.

- James Allen

HOSE ACCESSORIES



CAM AND GROOVE



ALUMINIUM



POLYPROPLYENE



STAINLESS STEEL



BRASS

COMBINATION HOSE NIPPLES



FIRE HOSE FITTINGS



UNIVERSAL/ GROUND JOINT COUPLINGS



CAM AND GROOVE

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6191X



PART#	SIZE	
CGA-050-A1	1/2"	----
CGA-075-A1	3/4"	----
CGA-100-A1	1"	----
CGA-125-A1	1-1/4"	----
CGA-150-A1	1-1/2"	----
*CGA-200-A1	2"	----
CGA-250-A1	2-1/2"	----
*CGA-300-A1	3"	----
*CGA-400-A1	4"	----
CGA-500-A1	5″	----
CGA-600-A1	6″	----
CGA-800-A1	8″	----
CGA-1000-A	10"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6193X



PART#	SIZE	
CGC-050-A1	1/2"	----
CGC-075-A1	3/4"	----
CGC-100-A1	1"	----
CGC-125-A1	1-1/4"	----
CGC-150-A1	1-1/2"	----
*CGC-200-A1	2"	----
CGC-250-A1	2-1/2"	----
*CGC-300-A1	3"	----
*CGC-400-A1	4"	----
CGC-500-A1	5″	----
CGC-600-A1	6"	----
CGC-800-A1	8"	----
CGC-1000-A	10"	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6192X



PART#	SIZE	
CGB-050-A1	1/2"	----
CGB-075-A1	3/4"	----
CGB-100-A1	1"	----
CGB-125-A1	1-1/4"	----
CGB-150-A1	1-1/2"	----
CGB-200-A1	2"	----
CGB-250-A1	2-1/2"	----
CGB-300-A1	3"	----
*CGB-400-A1	4"	----
CGB-500-A1	5″	----
CGB-600-A1	6″	----
CGB-800-A1	8"	----
CGB-1000-A	10"	----

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6194X



PART#	SIZE	
CGD-050-A1	1/2"	----
CGD-075-A1	3/4"	----
CGD-100-A1	1"	----
CGD-125-A1	1-1/4"	----
CGD-150-A1	1-1/2"	----
*CGD-200-A1	2"	----
CGD-250-A1	2-1/2"	----
*CGD-300-A1	3"	----
*CGD-400-A1	4"	----
CGD-500-A1	5″	----
CGD-600-A1	6″	----
CGD-800-A1	8"	----
CGD-1000-A	10"	----

ALUMINUM CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E

CGE
61-95X



PART#	SIZE	
CGE-050-A1	1/2"	----
CGE-075-A1	3/4"	----
CGE-100-A1	1"	----
CGE-125-A1	1-1/4"	----
CGE-150-A1	1-1/2"	----
*CGE-200-A1	2"	----
CGE-250-A1	2-1/2"	----
*CGE-300-A1	3"	----
*CGE-400-A1	4"	----
CGE-500-A1	5″	----
CGE-600-A1	6″	----
CGE-800-A1	8"	----
CGE-1000-A	10"	----

MALE ADAPTER X MALE NPT
TYPE F

CGF
61-96X



PART#	SIZE	
CGF-050-A1	1/2"	----
CGF-075-A1	3/4"	----
CGF-100-A1	1"	----
CGF-125-A1	1-1/4"	----
CGF-150-A1	1-1/2"	----
*CGF-200-A1	2"	----
CGF-250-A1	2-1/2"	----
CGF-300-A1	3"	----
*CGF-400-A1	4"	----
CGF-500-A1	5″	----
CGF-600-A1	6″	----
CGF-800-A1	8″	----
CGF-1000-A	10"	----

DUST CAP
TYPE DC

CDC
61-97X



PART#	SIZE	
CDC-050-A1	1/2"	----
CDC-075-A1	3/4"	----
CDC-100-A1	1"	----
CDC-125-A1	1-1/4"	----
CDC-150-A1	1-1/2"	----
*CDC-200-A1	2"	----
CDC-250-A1	2-1/2"	----
*CDC-300-A1	3"	----
*CDC-400-A1	4"	----
CDC-500-A1	5″	----
CDC-600-A1	6″	----
CDC-800-A1	8″	----
CDC-1000-A	10"	----

DUST PLUG
TYPE DP

CDP
61-98X



PART#	SIZE	
CDP-050-A1	1/2"	----
CDP-075-A1	3/4"	----
CDP-100-A1	1"	----
CDP-125-A1	1-1/4"	----
CDP-150-A1	1-1/2"	----
CDP-200-A1	2"	----
CDP-250-A1	2-1/2"	----
CDP-300-A1	3"	----
CDP-400-A1	4"	----
CDP-500-A1	5″	----
CDP-600-A1	6″	----
CDP-800-A1	8"	----
CDP-1000-A	10"	----

ALUMINUM (AL) SPOOL & PART A

SEE PAGES 332 FOR JUMP SIZES IN ALUMINUM

MALE ADAPTER X MALE ADAPTER
ALUMINUM
SPOOL ADAPTER



SA-XXX-A
61910

PART#	SIZE	PART#	
SA-100-A	1″	61872	----
SA-150-A	1-1/2″	*61873	----
SA-200-A	2″	*61874	----
SA-2030-A	2″ x 3″	*61875	----
SA-250-A	2-1/2″	61876	----
SA-300-A	3″	*61877	----
SA-3040-A	3″ x 4″	*61878	----
SA-400-A	4″	*61879	----

REDUCER ADAPTER FEMALE NPT ALUMINUM



CGA-XXX-A

MALE ADAPTER X FEMALE PIPE

PART#	SIZE	PART#	
CGA-1520-A	1-1/2" x 2"		----
CGA-2015-A	2" x 1-1/2"		----
CGA-2030-A	2" x 3"	*61-851	----
CGA-3040-A	3" x 4"	*61-853	----
CGA-4030-A	4" x 3"	*61-854	----
*CGA-6040-A	6" x 4"		----

ALUMINUM SWIVEL



PART#	SIZE	
CGASV-300-A	3"	----
CGASV-400-A	4"	----

REDUCER COUPLER M NPT
PART B



CGB-XXX-A

FEMALE COUPLER X MALE PIPE

PART#	SIZE	PART#	
CGA-3020-A	3" x 2"	61859	----
CGA-3040-A	3" x 4"	*61860	----
CGA-4030-A	4" x 3"	*61861	----

ALUMINUM 90°
PART C



PART#	SIZE	
CGC-1590-A	1-1/2"	----
CGC-2090-A	2"	----

REDUCER COUPLER SHANK
PART C



CGC

PART#	SIZE	
CGC-2015-A	2" x 1-1/2"	----
CGC-3020-A	3" x 2"	----
CGC-3025-A	3" x 2-1/2"	----
CGC-4030-A	4" x 3"	----

REDUCER COUPLER ADAPTER PART D

DA-XXX-A



FEMALE COUPLER X MALE ADAPTER

PART#	SIZE	PART#	
DA-1510-A	1-1/2″ x 1″	619001	----
DA-1520-A	1-1/2″ x 2″	*619002	----
DA-2015-A	2″ x 1-1/2″	*619003	----
DA-2030-A	2" x 3"	*619004	----
DA-2040-A	2" x 4"	619005	----
DA-3015-A	3″ x 1-1/2″	619006	----
DA-3020-A	3″ x 2″	*619007	----
DA-3040-A	3″ x 4″	*619008	----
DA-4020-A	4" x 2"	*619009	----
DA-4030-A	4″ x 3″	*619010	----
DA-4060-A	4" x 6"	*619011	----
DA-6040-A	6" x 4"	*619012	----

REDUCER COUPLER FEMALE NPT PART D

CGD



FEMALE COUPLER X FEMALE PIPE

PART#	SIZE	PART#	
CGD-1510-A	1-1/2" x 1"	61865	----
CGD-2015-A	2" x 1-1/2"	61866	----
CGD-3020-A	3" x 2"	61867	----
CGD-4030-A	4" x 3"	61868	----

SPOOL COUPLER PART D

DD



FEMALE COUPLER X FEMALE COUPLER

PART#	SIZE	PART#	
*DD-1515-A	1-1/2" x 1-1/2"	*619440	----
*DD-2020-A	2" x 2"	*619450	----
*DD-2030-A	2" x 3"		----
*DD-3030-A	3" x 3"	*619470	----
*DD-3040-A	3" x 4"		----
*DD-4040-A	4" x 4"	*619480	----

SWIVEL PART D



FEMALE COUPLER X FEMALE PIPE

CGDSV

PART#	SIZE	
*CGDSV-300-A	3"	----
*CGDSV-400-A	4"	----

REDUCER ADAPTER MALE NPT PART F



CGF

MALE ADAPTER X MIP

Part#	Size		
CGF-1520-A	1-1/2" x 2"		----
*CGF-2030-A	2" x 3"		----
*CGF-3020-A	3" x 2"	61870	----
*CGF-3040-A	3" x 4"	61871	----
CGF-4030-A	4" x 3"		----
CGF-4060-A	4" x 6"		----

POLYPROPYLENE (PP)

MALE ADAPTER X FEMALE NPT
TYPE A

35-91X



PART#	SIZE	
CGA-050-PP	1/2"	----
CGA-075-PP	3/4"	----
CGA-100-PP	1"	----
CGA-125-PP	1-1/4"	----
CGA-150-PP	1-1/2"	----
*CGA-200-PP	2"	----
CGA-300-PP	3"	----
CGA-400-PP	4"	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
35-92X



PART#	SIZE	
CGB-050-PP	1/2"	----
CGB-075-PP	3/4"	----
CGB-100-PP	1"	----
CGB-125-PP	1-1/4"	----
CGB-150-PP	1-1/2"	----
*CGB-200-PP	2"	----
*CGB-300-PP	3"	----
CGB-400-PP	4"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
35-93X



PART#	SIZE	
CGC-050-PP	1/2"	----
CGC-075-PP	3/4"	----
CGC-100-PP	1"	----
CGC-125-PP	1-1/4"	----
CGC-150-PP	1-1/2"	----
*CGC-200-PP	2"	----
*CGC-300-PP	3"	----
CGC-400-PP	4"	----

FEMALE COUPLER X FEMALE NPT
TYPE D

35-94X



PART#	SIZE	
CGD-050-PP	1/2"	----
CGD-075-PP	3/4"	----
CGD-100-PP	1"	----
CGD-125-PP	1-1/4"	----
CGD-150-PP	1-1/2"	----
*CGD-200-PP	2"	----
CGD-300-PP	3"	----
CGD-400-PP	4"	----

MALE ADAPTER X HOSE SHANK TYPE E

35-95X



PART#	SIZE	
CGE-050-PP	1/2"	----
CGE-075-PP	3/4"	----
CGE-100-PP	1"	----
CGE-125-PP	1-1/4"	----
CGE-150-PP	1-1/2"	----
*CGE-200-PP	2"	----
*CGE-300-PP	3"	----
CGE-400-PP	4"	----

MALE ADAPTER X MALE NPT TYPE F

35-96X



PART#	SIZE	
CGF-050-PP	1/2"	----
CGF-075-PP	3/4"	----
CGF-100-PP	1"	----
CGF-125-PP	1-1/4"	----
CGF-150-PP	1-1/2"	----
*CGF-200-PP	2"	----
*CGF-300-PP	3"	----
CGF-400-PP	4"	----

DUST CAP TYPE DC

CDC
35-97X



PART#	SIZE	
CDC-050-PP	1/2"	----
CDC-075-PP	3/4"	----
CDC-100-PP	1"	----
CDC-125-PP	1-1/4"	----
CDC-150-PP	1-1/2"	----
*CDC-200-PP	2"	----
*CDC-300-PP	3"	----
CDC-400-PP	4"	----

DUST PLUG TYPE DP

CDP
35-98X



PART#	SIZE	
CDP-050-PP	1/2"	----
CDP-075-PP	3/4"	----
CDP-100-PP	1"	----
CDP-125-PP	1-1/4"	----
CDP-150-PP	1-1/2"	----
CDP-200-PP	2"	----
CDP-300-PP	3"	----
CDP-400-PP	4"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X FEMALE NPT
TYPE A

CGA
6391X



PART#	SIZE	
CGA-050-SS1	1/2"	----
*CGA-075-SS1	3/4"	----
*CGA-100-SS1	1"	----
*CGA-125-SS1	1-1/4"	----
*CGA-150-SS1	1-1/2"	----
*CGA-200-SS1	2"	----
*CGA-250-SS1	2-1/2"	----
*CGA-300-SS1	3"	----
*CGA-400-SS1	4"	----
*CGA-500-SS1	5″	----
CGA-600-SS1	6″	----
CGA-800-SS1	8″	----

FEMALE COUPLER X MALE NPT
TYPE B

CGB
6392X



PART#	SIZE	
CGB-050-SS1	1/2"	----
*CGB-075-SS1	3/4"	----
*CGB-100-SS1	1"	----
CGB-125-SS1	1-1/4"	----
*CGB-150-SS1	1-1/2"	----
*CGB-200-SS1	2"	----
CGB-250-SS1	2-1/2"	----
*CGB-300-SS1	3"	----
*CGB-400-SS1	4"	----
CGB-500-SS1	5″	----
CGB-600-SS1	6″	----
CGB-800-SS1	8"	----

FEMALE COUPLER X HOSE SHANK
TYPE C

CGC
6393X



PART#	SIZE	
CGC-050-SS1	1/2"	----
*CGC-075-SS1	3/4"	----
*CGC-100-SS1	1"	----
*CGC-125-SS1	1-1/4"	----
*CGC-150-SS1	1-1/2"	----
*CGC-200-SS1	2"	----
CGC-250-SS1	2-1/2"	----
*CGC-300-SS1	3"	----
*CGC-400-SS1	4"	----
CGC-500-SS1	5″	----
*CGC-600-SS1	6″	----
CGC-800-SS1	8″	----

FEMALE COUPLER X FEMALE NPT
TYPE D

CGD
6394X



PART#	SIZE	
*CGD-050-SS1	1/2"	----
*CGD-075-SS1	3/4"	----
*CGD-100-SS1	1"	----
*CGD-125-SS1	1-1/4"	----
*CGD-150-SS1	1-1/2"	----
*CGD-200-SS1	2"	----
*CGD-250-SS1	2-1/2"	----
*CGD-300-SS1	3"	----
*CGD-400-SS1	4"	----
*CGD-500-SS1	5″	----
CGD-600-SS1	6″	----

8" AVAILABLE ONLINE

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE ADAPTER X HOSE SHANK TYPE E



SA
6395X

PART#	SIZE	
CGE-050-SS1	1/2"	----
*CGE-075-SS1	3/4"	----
*CGE-100-SS1	1"	----
*CGE-125-SS1	1-1/4"	----
*CGE-150-SS1	1-1/2"	----
*CGE-200-SS1	2"	----
*CGE-250-SS1	2-1/2"	----
*CGE-300-SS1	3"	----
*CGE-400-SS1	4"	----
*CGE-500-SS1	5″	----
*CGE-600-SS1	6″	----
CGE-800-SS1	8"	----

DUST CAP TYPE DC



6397X

PART#	SIZE	
CDC-050-SS1	1/2"	----
*CDC-075-SS1	3/4"	----
*CDC-100-SS1	1"	----
CDC-125-SS1	1-1/4"	----
*CDC-150-SS1	1-1/2"	----
*CDC-200-SS1	2"	----
CDC-250-SS1	2-1/2"	----
*CDC-300-SS1	3"	----
*CDC-400-SS1	4"	----
CDC-500-SS1	5″	----
CDC-600-SS1	6″	----
CDC-800-SS1	8"	----

MALE ADAPTER X MALE NPT TYPE F



CGF
6396X

PART#	SIZE	
CGF-050-SS1	1/2"	----
*CGF-075-SS1	3/4"	----
*CGF-100-SS1	1"	----
CGF-125-SS1	1-1/4"	----
*CGF-150-SS1	1-1/2"	----
*CGF-200-SS1	2"	----
CGF-250-SS1	2-1/2"	----
*CGF-300-SS1	3"	----
*CGF-400-SS1	4"	----
CGF-500-SS1	5″	----
*CGF-600-SS1	6″	----
CGF-800-SS1	8"	----

DUST PLUG TYPE DP



6398X

PART#	SIZE	
*CDP-050-SS1	1/2"	----
*CDP-075-SS1	3/4"	----
*CDP-100-SS1	1"	----
CDP-125-SS1	1-1/4"	----
*CDP-150-SS1	1-1/2"	----
*CDP-200-SS1	2"	----
CDP-250-SS1	2-1/2"	----
*CDP-300-SS1	3"	----
*CDP-400-SS1	4"	----
CDP-600-SS1	6″	----
CDP-800-SS1	8"	----

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

PART A SPOOL ADAPTER STAINLESS



PART#	SIZE	PART#	
SA-100-SS	1"	63850	----
SA-150-SS	1-1/2"	63851	----
SA-1520-SS	1-1/2" x 2"	63852	----
SA-200-SS	2"	63853	----
SA-2030-SS	2" x 3"	63854	----
SA-300-SS	3"	63855	----
SA-3040-SS	3" x 4"	63856	----
SA-400-SS	4"	63857	----

PART D SPOOL COUPLER STAINLESS 316



PART#	SIZE	PART#	
*DD-1515-SS	1-1/2" x 1-1/2"	639440	----
*DD-2020-SS	2" x 2"	639450	----
*DD-2030-SS	2" x 3"		----
*DD-3030-SS	3" x 3"	639470	----
*DD-3040-SS	3" x 4"		----
*DD-4040-SS	4" x 4"	639480	----

PART D REDUCER COUPLER ADAPTER STAINLESS 316



PART#	SIZE	PART#	
*DA-2030-SS	2" x 3"		----
*DA-3020-SS	3" x 2"	639002	----
*DA-3040-SS	3" x 4"		----
*DA-4030-SS	4" x 3"	639003	----
*DA-6040-SS	6" x 4"	639004	----

PART D STAINLESS 90° ELBOW



PART#	SIZE	
*CGD-2090-SS	2"	----

THE ELEPHANT ROPE

A gentleman was walking through an elephant camp, and he spotted that the elephants weren't being kept in cages or held by the use of chains.

All that was holding them back from escaping the camp, was a small piece of rope tied to one of their legs.

As the man gazed upon the elephants, he was completely confused as to why the elephants didn't just use their strength to break the rope and escape the camp. They could easily have done so, but instead, they didn't try to at all.

Curious and wanting to know the answer, he asked a trainer nearby why the elephants were just standing there and never tried to escape.

The trainer replied;
"when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them. As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

The only reason that the elephants weren't breaking free and escaping from the camp was that over time they adopted the belief that it just wasn't possible.

Moral of the story:
No matter how much the world tries to hold you back, always continue with the belief that what you want to achieve is possible. Believing you can become successful is the most important step in actually achieving it.

- UNKNOWN

BRASS

MALE ADAPTER X FEMALE NPT TYPE A

4491X



PART#	SIZE	
CGA-050-B1	1/2"	----
*CGA-075-B1	3/4"	----
*CGA-100-B1	1"	----
CGA-125-B1	1-1/4"	----
CGA-150-B1	1-1/2"	----
*CGA-200-B1	2"	----
CGA-250-B1	2-1/2"	----
*CGA-300-B1	3"	----
*CGA-400-B1	4"	----
CGA-500-B1	5″	----
*CGA-600-B1	6″	----

FEMALE COUPLER X HOSE SHANK TYPE C

4493X



PART#	SIZE	
CGC-050-B1	1/2"	----
*CGC-075-B1	3/4"	----
*CGC-100-B1	1"	----
CGC-125-B1	1-1/4"	----
CGC-150-B1	1-1/2"	----
*CGC-200-B1	2"	----
CGC-250-B1	2-1/2"	----
*CGC-300-B1	3"	----
*CGC-400-B1	4"	----
CGC-500-B1	5″	----
*CGC-600-B1	6″	----

FEMALE COUPLER X MALE NPT TYPE B

4492X



PART#	SIZE	
CGB-050-B1	1/2"	----
*CGB-075-B1	3/4"	----
*CGB-100-B1	1"	----
CGB-125-B1	1-1/4"	----
*CGB-150-B1	1-1/2"	----
*CGB-200-B1	2"	----
CGB-250-B1	2-1/2"	----
*CGB-300-B1	3"	----
*CGB-400-B1	4"	----
CGB-500-B1	5″	----
CGB-600-B1	6″	----

FEMALE COUPLER X FEMALE NPT TYPE D

4494X



PART#	SIZE	
CGD-050-B1	1/2"	----
*CGD-075-B1	3/4"	----
*CGD-100-B1	1"	----
*CGD-125-B1	1-1/4"	----
CGD-150-B1	1-1/2"	----
*CGD-200-B1	2"	----
CGD-250-B1	2-1/2"	----
*CGD-300-B1	3"	----
*CGD-400-B1	4"	----
CGD-500-B1	5″	----
*CGD-600-B1	6″	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS CAM AND GROOVE
HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E



4495X

PART#	SIZE	
CGE-050-B1	1/2"	----
*CGE-075-B1	3/4"	----
*CGE-100-B1	1"	----
*CGE-125-B1	1-1/4"	----
*CGE-150-B1	1-1/2"	----
*CGE-200-B1	2"	----
CGE-250-B1	2-1/2"	----
*CGE-300-B1	3"	----
*CGE-400-B1	4"	----
CGE-500-B1	5″	----
*CGE-600-B1	6″	----

DUST CAP
TYPE DC



4497X

PART#	SIZE	
CDC-050-B1	1/2"	----
*CDC-075-B1	3/4"	----
*CDC-100-B1	1"	----
CDC-125-B1	1-1/4"	----
CDC-150-B1	1-1/2"	----
*CDC-200-B1	2"	----
CDC-250-B1	2-1/2"	----
*CDC-300-B1	3"	----
*CDC-400-B1	4"	----
CDC-500-B1	5″	----
CDC-600-B1	6″	----

MALE ADAPTER X MALE NPT
TYPE F



4496X

PART#	SIZE	
CGF-050-B1	1/2"	----
*CGF-075-B1	3/4"	----
*CGF-100-B1	1"	----
*CGF-125-B1	1-1/4"	----
*CGF-150-B1	1-1/2"	----
*CGF-200-B1	2"	----
CGF-250-B1	2-1/2"	----
*CGF-300-B1	3"	----
*CGF-400-B1	4"	----
CGF-500-B1	5″	----
CGF-600-B1	6″	----

DUST PLUG
TYPE DP



4498X

PART#	SIZE	
CDP-050-B1	1/2"	----
*CDP-075-B1	3/4"	----
*CDP-100-B1	1"	----
CDP-125-B1	1-1/4"	----
CDP-150-B1	1-1/2"	----
*CDP-200-B1	2"	----
CDP-250-B1	2-1/2"	----
*CDP-300-B1	3"	----
*CDP-400-B1	4"	----
CDP-500-B1	5″	----
CDP-600-B1	6″	----

QUICKLOK HANDLE FOR ALUMINUM, BRASS & SS



PART#	SIZE	
HSK2-200-SS	1-1/2"	----
HSK2-300-SS	3"	----
HSK5-200-SS	1-1/2-1	----
HSK5-300-SS	3-4	----

QUICKLOK HANDLE FOR SS AND ALUMINUM



PART#	SIZE	
HSK5-200-SS	1-1/2-2"	----
HSK5-300-SS	3-4"	----

INVESTMENT CAST STAINLESS STEEL HANDLE, RING & PIN



PART#	SIZE	
61447	3/4"	----
61448	1"	----
61449	1-1/4" - 2-1/2"	----
61452	3" & 4"	----
61454	6"	----

FORGED BRASS HANDLE - RING & PIN STEEL



PART#	SIZE	
61455	3/4"	----
61450	1"	----
61451	1-1/4" - 2-1/2"	----
61453	3" & 4"	----
61457	6"	----

SAFETY CLIP



PART #	SIZE	
66-015	1-1/4" - 2-1/2"	----

HANDLE + PIN + RING BRASS

"Nothing is particularly hard if you divide it into small jobs"

"You can't build a reputation on what you are going to do."

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young."

"Don't find fault, find a remedy; anybody can complain."

"The only real mistake is the one from which we learn nothing."

"It has been my observation that most people get ahead during the time that others waste."

- Henry Ford

GASKETS
HOSE ACCESSORIES

CAMLOCK GASKET EPDM



PART#	SIZE	
CG-050-EPDM	1/2″	----
CG-200-EPDM	2″	----
CG-300-EPDM	3″	----

CAMLOCK GASKET NBR



PART#	SIZE	
CG-075-NBR	3/4	----
CG-100-NBR	1	----
CG-125-NBR	1-1/4	----
CG-150-NBR	1-1/2	----
CG-200-NBR	2	----
CG-250-NBR	2-1/2	----
CG-300-NBR	3	----
CG-400-NBR	4	----
CG-500-NBR	5	----
CG-600-NBR	6	----
CG-800-NBR	8	----

CAMLOCK GASKET VITON



PART#	SIZE	
CG-050-VI	1/2	----
CG-075-VI	3/4	----
CG-100-VI	1	----
CG-125-VI	1-1/4	----
CG-150-VI	1-1/2	----
CG-200-VI	2	----
CG-250-VI	2-1/2	----
CG-300-VI	3	----
CG-400-VI	4	----

BUNA-N GASKET



PART#	SIZE	
BG50	1/2″	----
BG75	3/4″	----
BG100	1″	----
BG125	1-1/4″	----
BG150	1-1/2″	----
BG200	2″	----
BG250	2-1/2″	----
BG300	3″	----
BG400	4″	----
BG500	5″	----
BG600	6″	----
BG800	8″	----

SILICONE GASKET



PART#	SIZE	
SG300	3"	----
SG400	4"	----

VITON GASKET



PART#	SIZE	
VG100	1"	----
VG150	1-1/2"	----
VG200	2"	----
VG250	2-1/2"	----
VG300	3"	----

COMBINATION NIPPLES

HOSE BARB X MALE PIPE

STEEL HOSE NIPPLES



CNT-XXX-S ▪ BLACK

(BARB X MALE PIPE)

PART #	HOSE SIZE	
*973850	1/2"	----
*973851	3/4"	----
*973852	1"	----
*973853	1-1/4"	----
*973854	1-1/2"	----
*973855	2"	----
*973856	2-1/2"	----
*973857	3"	----
*973858	4"	----
*CNT-600-S	6"	----
*973861	8"	----
*CNT-1200-S	12"	----

COMBINATION NIPPLE 316 STAINLESS



CNT-XXX-S316

PART #	SIZE	
*973700	1/2"	----
*973701	3/4"	----
*973702	1"	----
973703	1-1/4"	----
*973704	1-1/2"	----
*973705	2"	----
973706	2-1/2"	----
973707	3"	----
973708	4"	----

ZINC PLATED STEEL



CNT-XXX-SP

PART #	SIZE	
*973870	1/2"	----
*973871	3/4"	----
*973872	1"	----
*973873	1-1/4"	----
*973874	1-1/2"	----
*973875	2"	----
*973876	2-1/2"	----
*973877	3"	----
*973878	4"	----
*973879	5"	----
*973880	6"	----
*973881	8"	----
CNT-1200-SP	12"	----

ZINC PLATED STEEL EXPANDER & REDUCER



EXP
RED

HOSE X MIP

PART #	SIZE	
*973862	3/4 x 1	----
*973884	1 x 3/4	----
973863	1 x 1-1/4	----
*973885	1-1/4 x 1	----
*973886	1-1/4 x 1-1/2	----
*973887	1-1/2 x 1-1/4	----
*973864	1-1/2 x 2	----
*973888	2 x 1-1/2	----
*973859	2 x 2-1/2	----
*973869	2-1/2 x 2	----
*973865	2-1/2 x 3	----
*973867	3 x 2-1/2	----
*973866	3 x 4	----
*973868	4 x 3	----

COMBINATION NIPPLES
HOSE BARB X MALE PIPE

BRASS



CNT-XXX-B

▪ LEAD FREE

PART #	SIZE	
973600	1/2"	----
973601	3/4"	----
973602	1"	----
973603	1-1/4"	----
973604	1-1/2"	----
973605	2"	----
973606	2-1/2"	----
973607	3"	----
CNT-400-B	4"	----

ALUMINUM



CNT-XXX-A

PART #	SIZE	
973620	1/2"	----
973621	3/4"	----
973622	1"	----
973623	1-1/4"	----
973624	1-1/2"	----
*973625	2"	----
*973626	2-1/2"	----
*973627	3"	----
*973628	4"	----

VICTAULIC GROOVED
COMBINATION NIPPLES

COMBINATION NIPPLE PLAIN STEEL VICTAULIC GROOVED



CNG-S

PART #	HOSE SIZE	
*CNG-200-S	2"	----
*CNG-300-S	3"	----
*CNG-400-S	4"	----
*CNG-600-S	6"	----

COMBINATION NIPPLE PLATED VICTAULIC GROOVED



PART#	SIZE	
CNG-150-SP	1-1/2"	----
*CNG-200-SP	2"	----
CNG-250-SP	2-1/2"	----
CNG-300-SP	3"	----
*CNG-400-SP	4"	----
CNG-500-SP	5"	----
*CNG-600-SP	6"	----

HOSE MENDERS

MENDER PLAIN STEEL

HM-S



PART #	HOSE SIZE	
973890	1/2"	----
HM-063-S	5/8"	----
973891	3/4"	----
973892	1"	----
973893	1-1/4"	----
973894	1-1/2"	----
973895	2"	----
HM-300-S	3"	----
HM-400-S	4"	----
HM-600-S	6"	----
HM-800-S	5"	----

MENDER PLATED STEEL



PART #	SIZE	
973650	3/8"	----
973651	1/2"	----
HM-063-SP	5/8"	----
973652	3/4"	----
973653	1"	----
973654	1-1/4"	----
973655	1-1/2"	----
973656	2"	----
973657	2-1/2"	----
973658	3"	----
973659	4"	----
HM-600-SP	6"	----
HM-800-SP	8"	----

316 STAINLESS STEEL HOSE MENDER



PART #	SIZE	
73669	1/2"	----
73670	3/4"	----
73671	1"	----
73672	1-1/4"	----
73673	1-1/2"	----
73674	2"	----
73675	2-1/2"	----
73676	3"	----
73677	4"	----

BRASS HOSE MENDER



▪ LEAD FREE

PART #	SIZE	
73983	3/4"	----
73984	1"	----
73985	1-1/4"	----
73986	1-1/2"	----
73987	2"	----

UNIVERSAL COUPLING

MALE NPT ENDS

- Twist claw/ universal/ chicago



- Malleable iron
- ISO PSI

ME-XXX-SP

* Safety clip included

PART #	SIZE	
ME-025-SP	1/4	----
66005	3/8"	----
66006	1/2"	----
66007	3/4"	----
66008	1"	----

WASHER



PART #	
66000	----

FEMALE NPT ENDS



* Safety clip included

PART #	SIZE	
FE-025-SP	1/4"	----
66009	3/8"	----
66010	1/2"	----
66011	3/4"	----
66012	1"	----
FE-125-SP	1-1/4"	----
FE-150-SP	1-1/2"	----
FE-200-SP	2"	----

HOSE END



SEE CRIMPLOK SECTION

HE-XXX-SP

* Safety clip included

PART #	SIZE	
66001	3/8"	----
66002	1/2"	----
66003	3/4"	----
66004	1"	----
HE-125-SP	1-1/4"	----
HE-150-SP	1-1/2"	----
HE-200-SP	2"	----

SAFETY CLIP



PART #	SIZE	
66-015	1-1/4" - 2-1/2"	----

TRIPLE CONNECTIONS



UW-300-SP

PART #	
66013	----

UNIVERSAL BLANK END



ISO PSI

PART #	SIZE	
BE-300-SP		----

GROUND JOINT COUPLING

HIGH PRESSURE FEMALE+ WING NUT+FEMALE SPUD



PART #	SIZE	
73003	1/2	----
73004	3/4	----
73005	1	----
73006	1-1/4	----
73007	1-1/2	----
73008	2	----
73009	2-1/2	----
73010	3	----
73011	4	----

HIGH PRESSURE WING NUT



PART #	SIZE	PART #	
73033	1/2	*GJN-050-DP	----
73035	3/4	*GJN-075-DP	----
73036	1-1/4	*GJN-125-DP	----
73037	1-1/2	*GJN-150-DP	----
73038	2	*GJN-200-DP	----
73039	2-1/2		
73040	3	*GJN-300-DP	----
73041	4		

HIGH PRESSURE FEMALE STEM



PART #	SIZE	PART #	
73023	1/2	*GJS-050-SP	----
73024	3/4	*GJS-075-DP	----
73025	1	*GJS-100-DP	----
73026	1-1/4	*GJS-125-DP	----
73027	1-1/2	*GJS-150-DP	----
73028	2	*GJS-200-DP	----
73029	2-1/2"		
73030	3"		
73031	4"		

HIGH PRESSURE FEMALE SPUD



PART #	SIZE	PART #	
73063	1/2	*GJF-050-SP	----
73064	3/4	*GJF-075-DP	----
73065	1	*GJF-100-DP	----
73066	1-1/4	*GJF-125-DP	----
73067	1-1/2	*GJF-150-DP	----
73068	2	*GJF-200-DP	----
73070	3	*GJF-300-DP	----

HIGH PRESSURE DOUBLE SPUD



PART #	SIZE	
GDS-050-B	1/2	----
*GDS-075-B	3/4	----

GROUND JOINT COUPLINGS/ ALUMINUM SHORT SHANKS

HOSE ACCESSORIES

2 BOLT HIGH PRESSURE CLAMP



PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	
*BC2-075A-DP	3/4"	1-5/32"-1-9/32"	21FT LBS	----
*BC2-075C-DP	3/4"	1-5/16"-1-1/2"	21FT LBS	----

4 BOLT HIGH PRESSURE CLAMP



PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	
BC4-100B-DP	1"	1.53-1.72	21FT LBS	----
BC4-125-DP	1-1/4"	2.06-2.25	40FT LBS	----
BC4-200A-DP	2"	2-11/32"-2-17/32"	60FT LBS	----
BC4-200-DP	2-1/2"	3-3/32"-3-7/16"	60FT LBS	----

HIGH PRESSURE MALE STEM



PART #	LIST	SIZE	PART #	
73043		1/2	*GJM-050-SP	----
73044		3/4	*GJM-075-SP	----
73045		1	*GJM-100-SP	----
73046		1-1/4	*GJM-125-DP	----
73047		1-1/2	*GJM-150-DP	----
73048		2	*GJM-200-DP	----
73049		2-1/2		
73050		3		
73051		4		

NPT STEEL HEX NIPPLE



PART #	SIZE	
HNC-04-02-SP	1/4 x 1/8	----
HNC-04-04-SP	1/4 x 1/4	----
HNC-06-04-SP	3/8 x 1/4	----
HNC-06-06-SP	3/8 x 3/8	----
HNC-08-06-SP	1/2 x 3/8	----
HNC-08-08-SP	1/2 x 1/2	----
HNC-12-08-SP	3/4 x 1/2	----
HNC-16-12-SP	1 x 3/4	----

SHORT SHANK ALUMINUM SET NPS



PART #	SIZE	
PL-150-AD	1-1/2	----
*PL-200-AD	2	----
*PL-300-AD	3	----
*PL-400-AD	4	----

FEMALE END

PART #	SIZE	
PF-150-AD	1-1/2	----
PF-200-AD	2	----
PF-300-AD	3	----
PF-400-AD	4	----
PF-600-AD	6	----

MALE END

PART #	SIZE	
PM-150-A	1-1/2	----
PM-200-A	2	----
PM-300-A	3	----

LARGE SAFETYCHECK FOR HOSE/ HOSE AND HOSE/TOOL



HOSE TO HOSE

PART #	SIZE	
WHIP-L	1-1/2" HOSE, 37" LONG	----
WHIP-S	1/2-1-1/4" HOSE 22" LONG	----

FOOT VALVE



PART #	SIZE	
*FV-200-DP	2	----
*FV-300-DP	3	----
*FV-400-DP	4	----
*FV-600-DP	6	----

STRAINER ROUND HOLE



PART #	SIZE	
*SR-200-SP	2	----
*SR-250-SP	2-1/2	----
*SR-300-SP	3	----
*SR-400-SP	4	----
*SR-600-SP	6	----
*SR-800-SP	8	----

STRAINER ROUND HOLE LONG THIN



PART #	SIZE	
*SL-200-SP	2	----
*SL-300-SP	3	----

STRAINER BOTTOM HOLE



PART #	SIZE	STRAINER HOSE SIZE	
SB-200-SP	2		----
SB-300-SP	3		----

STRAINER STRAINER BOTTOM HOLE



PART #	SIZE	
SCR-300-SS304	3	----
SCR-400-SS304	4	----

PLASTIC FOG NOZZLE GHT



PART #	SIZE	
FN-075	3/4	----
FN-075R	3/4	----

PLASTIC FOG NOZZLE NPS



PART #	SIZE	
FN-100	1	----
*FN-150	1-1/2	----
FN-200	2	----

GREEN ABS FOG NOZZLE GHT



PART #	SIZE	
FN-075G	3/4	----

FIRE HOSE FITTINGS

HYDRANT ADAPTERS - BRASS



PART #	DESCRIPTION	
444011	1-1/2" NST x 3/4" GHT	----
444000	2-1/2" NST x 3/4" GHT	----
444001	2-1/2" NST x 3/4" NPT	----
444002	2-1/2" NST x 1" NPT	----
444005	2-1/2" NST x 1-1/2" NPT	----
444007	2-1/2" NST x 2" NPSH	----
444008	2-1/2" NST x 2" NPT	----
444006	2-1/2" NST x 1-1/2" NST	----

DOUBLE MALE HEX NIPPLE - BRASS



PART #	DESCRIPTION	
444042	1-1/2" NPT x 1-1/2" NPSH	----
444040	1-1/2" NPT x 1-1/2" NST	----
444048	2" NPT x 2-1/2" NST	----
444095	2-1/2" NST x 1-1/2" NST	----
444045	2-1/2" NPT x 2-1/2" NST	----
444049	3" NPT x 2-1/2" NST	----

FEMALE TO MALE HEX ADAPTER - BRASS



PART #	DESCRIPTION	
444021	1-1/2" NST x 1-1/2" NPSH	----
444023	1-1/2" NPT x 1-1/2" NPSH	----
444020	1-1/2" NST x 1-1/2" NPT	----
444318	2 NPT x 2-1/2" NST	----

MALE SWIVEL ADAPTER - BRASS W/ LUGS



PART #	DESCRIPTION FEMALE X MALE	
444111	2-1/2" NST x 2" NPT	----
444112	2-1/2" NST x 2-1/2" NPT	----
444113	2-1/2" NST x 3" NPT	----

CAP - BRASS



PART #	DESCRIPTION	
444062	2-1/2" NST	----
444313	4-1/2" NST	----
444320	2-1/2" NST PLUG	----
444060	1-1/2" NST	----

BRASS NOZZLE



PART #	SIZE	
HN-075-B	3/4"	----
*HN-100-B	1"	----
HN-125-B	1-1/4"	----
HN-150-B	1-1/2"	----
HN-200-B	2"	----
HN-250-B	2-1/2"	----

BUCHANAN HOSE



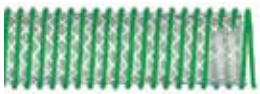
HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Air Hoses *- Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air, Oroflex 20, Duraflex 20 & Hot Air Blower*					
 **Super Service Air**	Yellow cut and abrasion resistant cover with blue stripe. Tube is oil resistant synthetic rubber.	A superior quality mining, construction and industrial hose.	400 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
 **Contractors Air**	Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	For mining, construction, and industrial use.	250 - 300 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
 **Steelflex Air**	Yellow cut and abrasion resistant cover with red stripe. Tube is oil resistant synthetic rubber.	High pressure steel reinforced air service for mining, construction and industrial use. More resistant to external abuse than textile air hose. Mandrel built.	400 - 1000 PSI	1/2" - 4"	-35ºC to +80ºC -30ºF to +180ºF
 **Jackhammer**	Smooth Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use.	300 PSI	3/4"	-35ºC to +80ºC -30ºF to +180ºF
General Purpose *- Also Available: General Purpose, Urethane General Purpose & Self Storing Air*					
 **Premium General Purpose - Non Conductive**	Red, oil, grease,weather and abrasion resistant nitrile/pvc cover with nitrile tube.	A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.	250 - 300 PSI	1/4" - 1 1/2"	-32ºC to +85ºC -25ºF to +185ºF
 **EPDM General Purpose**	Smooth red abrasion and weather resistant EPDM synthetic rubber tube and cover.	Air, water, agricultural spray solutions, and other dilute chemicals. Excellent resistance to heat and weathering. Also resists animal fats, vegetable oils and Methyl Ethyl Ketone.	150 - 250 PSI	1/4" - 2"	-30ºC to +93ºC -20ºF to +200ºF
 **Clear Reinforced PVC**	Clear smooth PVC.	An economical FDA quality hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. 3A/USDA/NSF-51 Compliant.	65 - 250 PSI	3/16" - 2"	-5ºC to +65ºC +25ºF to +150ºF
 **Push On**	Black, Grey, Red, Blue, or Yellow oil, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions.	250 - 300 PSI	1/4" - 3/4"	-32ºC to +80ºC -25ºF to +180ºF
 **Arctic General Purpose**	Blue weather and oil resistant synthetic rubber specially compounded for arctic service featuring a static wire.	A premium general purpose hose for conveying air, water, petroleum products and some chemicals under arctic conditions.	300 PSI	1/2" - 2"	-54ºC to +65ºC -65ºF to +150ºF
Water Discharge *- Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown, White Sanitary & Single Jacket Industrial Mill*					
 **Oroflex 10 Layflat**	Black abrasion, weather and oil resistant nitrile rubber cover with oil resistant nitrile rubber tube.	A lightweight high pressure, extremely strong hose for general water and oil discharge, and for some chemicals.	150 - 200 PSI	1 1/2" - 8"	-20ºC to +80ºC 0ºF to +180ºF
 **Duraflex - Rubber Layflat**	Black abrasion, weather and oil resistant nitrile rubber.	This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water.	150 - 200 PSI	2" - 6"	-20ºC to +80ºC 0ºF to +180ºF
 **Pressure Washer**	Smooth cover blue and black (also wrapped version) oil resistant synthetic rubber cover. One high tensile steel braid with oil resistant synthetic rubber tube.	Extremely flexible, compact hose for use on pressure washers with working pressures up to 3000 psi. Available in 4500 psi, 250ºF.	3000 PSI	3/8"	-29ºC to +100ºC -20ºF to +212ºF

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Discharge - *Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown & White Sanitary*					
 **PVC Layflat**	Blue, Brown or Green PVC impregnation.	Light (Blue) to Heavy (Brown and Green) duty layflat hose for portable pump and irrigation use.	30 - 150 PSI	3/4" - 12"	-10ºC to +60ºC +15ºF to +140ºF
 **Contractors and Contractors Plus Water Discharge**	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	A lightweight water discharge hose which is ideal for use with portable pumps, and general water discharge service.	75 - 100 PSI	1 1/4" - 12"	-35ºC to +80ºC -30ºF to +180ºF
 **Contractors Water Discharge - Industrial Garden Hose**	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	For use on construction sites and general water service.	150 - 300PSI	1/2" - 1"	-35ºC to +80ºC -30ºF to +180ºF
Water Suction - *Also Available: EPDM Aggie Water S & D*					
 **Superflex**	A hose constructed with extra soft PVC, a feature that ensures greater flexibility and ease of handling at very low temperatures. Also available with static wire.	Can be used for light oil, grease and animal fat suction. It can also be used in more general applications where great flexibility is required at very low temperatures.	35 - 70 PSI 29" HG	2" - 6"	-40ºC to +60ºC -40ºF to +140ºF
 **Rubber Water S & D**	Black smooth abrasion and weather resistant synthetic rubber.	A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.	50 - 200 PSI 29" HG	3/4" - 12"	-30ºC to +80ºC -22ºF to +180ºF
 **Saturn Water S & D**	Clear abrasion and weather resistant extra soft low temperature PVC with blue helix	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Soft low temperature compounds allow for increased flexibility.	25 - 45 PSI 29" HG	3/4" - 6"	-40ºC to +65ºC -40ºF to +150ºF
 **Saturn Green PVC Water S & D**	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	25 - 90 PSI 28 - 29" HG	3/4" - 8"	-20ºC to +65ºC -5ºF to +150ºF
 **Saturn Low Temperature PVC Water S & D**	Clear abrasion and weather resistant extra soft PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds allow for increased flexibility at low temperatures.	35 - 90 PSI 29" HG	3/4" - 6"	-40ºC to +65ºC -40ºF to +150ºF
 **Saturn Grey PVC Water S & D**	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & irrigation lines. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	15 - 45 PSI 26 - 29" HG	1" - 12"	-40ºC to +65ºC -40ºF to +150ºF
 **Textile Reinforced S & D**	Clear abrasion and weather resistant PVC with high tensile synthetic yarn reinforcement.	Good for both suction and discharge applications, this heavy duty hose can be used for rental/construction pumping as well as fish suction hose.	40 - 110 PSI 28 - 29" HG	2" - 10"	-23ºC to +65ºC -10ºF to +150ºF
 **Saturn White PVC Water Suction and Discharge Hose**	Clear abrasion and weather resistant PVC with white helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Can also be used in air seeder applications.	35 - 90 PSI	3/4" - 8"	-20ºC to +65ºC -4ºF to +150ºF

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Suction *- Also Available: EPDM Aggie Water S & D*					
 **EPDM Water Suction**	Green polypropylene and Black EPDM.	Agricultural suction, general industrial use where high working pressures are not required.	22 - 50 PSI 29" HG	1 1/2" - 6"	-40ºC to +60ºC -40ºF to +140ºF
Steam *- Also Available: Textile Steam*					
 **Steam 250**	Red, heat, weather and abrasion resistant EPDM synthetic rubber tube and cover.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.	250 PSI	1/2" - 3"	-40ºC to +210ºC -40ºF to +406ºF
 **CB Steam 250**	Red abrasion resistant EPDM cover with Chlorobutyl synthetic rubber tube.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.Chlorobutyl tube has a low permeation factor resulting in resistance to popcorning of tube.	250 PSI	1/2" - 2"	-40ºC to +210ºC -40ºF to +406ºF
Petroleum *- Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt*					
 **Tank Truck**	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI 29" HG	3/4" - 6"	-35ºC to +93ºC -30ºF to +200ºF
 **Super Black 250**	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 250 PSI. May also be used as hydraulic return line and suction.	250 PSI	2" - 6"	-35ºC to +93ºC -30ºF to +200ºF
 **LW Arctic Superflex 150 Petroleum**	Blue weather and oil resistant synthetic rubber specially compounded for arctic service. Corrugated with white stripe.	Specially designed to remain flexible while handling a wide range of petroleum products, including gasoline and diesel under arctic conditions.	150 PSI	1 1/2" - 6"	-54ºC to +90ºC -65ºF to +195ºF
 **H.O.T Oil Tank Truck**	Black, abrasion and oil resistant synthetic rubber with red stripe.	Specially designed for conveying hot oil and/or Glycol at temperatures up to 120ºC (250ºF).	150 PSI	2" - 4"	up to +120ºC 250ºF
 **LW Petroleum Tank 150**	Black, abrasion, gasoline and oil resistant synthetic rubber with green stripe.	An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI	2" - 6"	-40ºC to +93ºC -40ºF to +200ºF
 **Petroleum Discharge**	Red, heat, oil and weather resistant Neoprene cover with nitrile tube.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	150 - 200 PSI	3/4" - 4"	-35ºC to +88ºC -30ºF to +190ºF
 **Petroleum Discharge 250**	Black, heat, oil and weather resistant Neoprene.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	250 PSI	2" - 6"	-35ºC to +88ºC -30ºF to +190ºF
 **Petroleum Drop Hose**	Orange PVC helix with high tensile synthetic yarn reinforcement and built in static wire.	For use as a tank truck gravity drop hose. Also for use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface.	65 - 70 PSI 28" HG	2" - 4"	-29ºC to +65ºC -20ºF to +150ºF

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Petroleum - *Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt*					
 **Urethane Bio-Drop Fuel Hose**	Green PVC Helix with polyurethane cover. BDROP is clear wall for flow visibility and BDROPB is black with added UV resistance.	For use as a tank truck gravity drop hose with biofuel, gasoline, diesel and ethanol. Lightweight and flexible with exposed pvc helix making it very user friendly.	65 PSI	3" - 4"	-40ºC to +65ºC -40ºF to +150ºF
 **Vapour Thane Dust & Vapour Recovery Hose**	Convoluted yellow helix.	Vapour recovery from petroleum transfer operations. Embedded static wire serves to dissipate static electricity. NOT SUITABLE FOR CONVEYING LIQUIDS	9 - 17 PSI	2" - 4"	-40ºC to +65ºC -40ºF to +150ºF
Material Handling - *Also Available: Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement & Bulkmaster Hardwall*					
 **Aztec**	Thick black corrugated abrasion and weather resistant synthetic blend cover. Red 3/8" thick super abrasion resistant natural rubber tube.	Primarily designed for handling abrasive slurries in mines and quarries. Can also be used for dry material handling of sand, gravel, grain, slag, and other such materials. External re-usable bolt on flanges allow for ease of installation, and uninterrupted free flow.	150 PSI 30" HG	3" - 12"	-40ºC to +80ºC -40ºF to +180ºF
 **Bulkmaster Softwall**	Black abrasion and weather resistant synthetic rubber cover with black abrasion resistant natural rubber tube. Green stripe on 1/4" thick tube.	Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.	75 PSI	3" - 6"	-30ºC to +80ºC -25ºF to +180ºF
 **Sandblast**	Black static conductive synthetic rubber cover with thick black static conductive abrasion resistant natural rubber tube.	For conducting sand, steel shot, and other abrasives for blast cleaning.	150 PSI	1/2" - 3"	-35ºC to +80ºC -30ºF to +180ºF
 **Industrial Vacuum**	Black weather and abrasion resistant cover with black abrasion resistant pure gum rubber tube.	For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.	40 PSI 10 - 24" HG	1" - 6"	-30ºC to +80ºC -25ºF to +180ºF
Chemical - *Also Available: Hypalon Acid S & D, Viton Lined S & D, EPDM Acid S & D*					
 **Chemical**	Green smooth chemical resistant EPDM rubber cover with cross-linked polyethylene tube.	The cross-linked polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 90% of known chemical and petroleum products in both suction and discharge applications.	200 PSI 29" HG	1/2" - 4"	-29ºC to +120ºC -20ºF to +248ºF
 **Flexchem**	Green corrugated chemical resistant EPDM rubber with FDA UHMW polyethylene tube.	Similar to Chemical hose above but may be used at lower temperatures. More versatile than our Chemical hose, Flexchem handles 98 per cent of known chemicals and can be steam cleaned. Corrugated cover results in a more flexible hose.	200 PSI 29" HG	3/4" - 4"	-40ºC to +65ºC -40ºF to +150ºF
Material Handling Polyurethane and PVC - *Also Available: Grey PVC Vacuum*					
 **B Flex/B Flex Static**	Corrugated clear PVC rigid helix. FDA, 3A and USDA compliant.	Conveying of dry powders, grains and plastic pellets where viewing the product is important. B Flex Static has built-in static wire.	25 - 45 PSI 29" HG	1 1/2" - 3" and 39mm	-23ºC to +65ºC -10ºF to +150ºF
 **Neptune Suction/Neptune Static Suction**	Corrugated clear PVC with clear rigid PVC helix. FDA, 3A and USDA compliant.	Suction and discharge of liquids, grains, plastic pellets and powders where moderate abrasion is a factor. Netptune Static has built-in static wire.	20 - 55 PSI 29" HG	1" - 8"	-23ºC to +65ºC -10ºF to +150ºF

Other Hoses Available*: Auto Heater Hose, Marine Hardwall/Softwall/Fuel Fill Hose, Silicone Coolant and Heater Hose. Garage Exhaust Hose, Welding Hose, Pressure Washer Hose, Paint Spray Hose, Auto Fuel Line Hose.*

HOSE INFORMATION
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Material Handling Polyurethane and PVC *- Also Available: Grey PVC Vacuum*					
 **PU Vac/PU Vac Lite/PU Vac Static**	Corrugated clear abrasion and weather resistant Polyurethane with grey PVC helix. FDA, 3A and USDA compliant.	Ideal for applications where conventional rubber or PVC hose will wear rapidly, i.e. grain transfer, abrasive powder recovery, leaf collection. PU Vac Static has built-in static wire.	3 - 50 PSI 29" HG	1 1/2" - 6"	-40ºC to +65ºC -40ºF to +150ºF
 **ARI HD**	Blue HMW PVC up to 5" I.D. Black cover in 6" and 8" I.D	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Also for use on vacuum excavation trucks. Cover is a specially formulated static dissapative compound with low temperature flexibility.	30 - 45 PSI 28 - 29" HG	2" - 8"	-40ºC to +65ºC -40ºF to +150ºF
 **ARI**	This hose has a polyurethane tube with an HMC cover. Cover is a specially formulated technical alloy that makes this hose antistatic.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash.	30 - 45 PSI 29" HG	2" - 8"	-40ºC to +65ºC -40ºF to +150ºF
Food *- Also Available: Pure Gum Tubing, Polyethylene Tubing & Clear Vinyl Tubing*					
 **Bacco**	Smooth clear, food grade PVC non-marking with red rigid PVC helix. FDA, 3A and USDA compliant.	Alcoholic beverages up to 25% alcohol content. Fruit juices, soft drinks and other liquid foodstuffs. Also suitable for dry bulk foodstuffs.	35 - 85 PSI 29" HG	3/4" - 5" and 38 - 50mm	-23ºC to +65ºC -10ºF to +150ºF
 **Brewers and Beverage Discharge**	Red abrasion resistant natural rubber tube and cover.	Will handle a wide range of non fatty-oily food products up to 80ºC where taste and aroma must not be affected.	140 PSI	3/4" - 3"	-35ºC to +80ºC -30ºF to +180ºF
 **Wirevac**	Smooth clear PVC with wire helix. Super Wirevac has additional layer of fabric reinforcement. FDA, 3A, USDA and NSF-51 compliant.	An extremely flexible transparent hose for use where full vacuum performance is required while monitoring the contents of the hose. Ideal for use with most food-stuffs, cosmetics, beverages, and a wide range of chemical solutions. Also suitable for lubricating oils and animal fats.	45 - 250 PSI 28" HG	3/8" - 3"	-10ºC to +65ºC +15ºF to +150ºF
 **Foodflex PVC S & D**	Clear PVC non-marking. FDA, 3A and USDA compliant.	For dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar etc. Clear wall allows visual inspection of the product.	50 - 85 PSI 29" HG	3/4" - 4"	-23ºC to +65ºC -10ºF to +150ºF
 **Foodflex Textile Reinforced S & D (Food Grade)**	Clear PVC non-marking with high tensile yarn reinforcement. FDA, 3A and USDA compliant.	For liquid or dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar, poultry or meat packing etc. Clear wall allows visual inspection of the product.	60 - 110 PSI 28 - 29" HG	2" - 8"	-23ºC to +65ºC -10ºF to +150ºF



AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

CLEAR REINFORCED PVC (FOOD QUALITY)



APPLICATION:An economical hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. COVER:Clear smooth PVC REINFORCEMENT:Multiple layers of synthetic yarns TUBE:Clear smooth PVC
TEMPERATURE:-5C to +65C(+25F to +150F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
CRPVC-019	3/16	0.38	250	300	0.05	----
CRPVC-025	1/4	0.43	250	300	0.07	----
CRPVC-025-100	1/4	0.43	250	100	0.07	----
CRPVC-031	5/16	0.53	300	300	0.08	----
CRPVC-031-100	5/16	0.53	300	100	0.08	----
*CRPVC-038	3/8	0.59	250	300	0.09	----
CRPVC-038-100	3/8	0.59	250	100	0.09	----
*CRPVC-050	1/2	0.71	250	300	0.15	----
*CRPVC-050-100	1/2	0.71	250	100	0.15	----
CRPVC-063	5/8	0.87	200	200	0.17	----
CRPVC-063-100	5/8	0.87	200	100	0.17	----
CRPVC-075	3/4	1.02	180	200	0.23	----
CRPVC-075-100	3/4	1.02	180	100	0.23	----
*CRPVC-100	1	1.30	150	200	0.32	----
*CRPVC-100-100	1	1.30	150	100	0.32	----
CRPVC-125	1-1/4	1.61	100	100	0.58	----
CRPVC-150	1-1/2	1.89	85	100	0.69	----
CRPVC-200	2	2.44	65	100	1.00	----

Standard Length: 3/16"-3/4" 100'/300' coil, 1" 100'/200' coil, 1-1/4"-2" 100' coil
Product Info: Compliant with the applicable requirements and standards of FDA USDA 3-A and NSF-51. Please specify length when ordering i.e. 100' or 300'
Safety Info: Working pressure ratings are based on 20C (68F). At operating temperature of +65C (150F) reduce working pressure by 50%. Recommended Couplings: Combination nipples, short shank, brass barbed, cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

HOT AIR BLOWER HOSE



APPLICATION:FOR CONVEYING HOT AIR FROM BLOWER TO TANK ON DRY BULK TRUCKS.
COVER:Black heat and weather resistant EPDM rubber.
REINFORCEMENT:High tensile wire helix embedded between layers of heat resistant synthetic fabric.
TUBE:Black specially compounded heat resistant EPDM rubber.
TEMPERATURE:-40C to +163C(-40F to +350F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS	STD PACK	WEIGHT#	
*BLOW150-300	3	3.62	150	12.00	100	1.75	----
*BLOW150-400	4	4.65	150	15.00	100	2.40	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

JACKHAMMER - AIR



APPLICATION:AN ECONOMICAL AIR HOSE FOR JACKHAMMER AND OTHER USES ON CONSTRUCTION SITES. ALSO FOR GENERAL INDUSTRIAL USE
COVER:Red smooth cut and abrasion resistant REINFORCEMENT:Multiple layers of synthetic yarn
TUBE:Synthetic oil mist resistant
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	COLOR	
JACK-075-50	3/4	1.14	300	50	0.40	Yellow	----
JACK-075R-50	3/4	1.14	300	50	0.40	Red	----
JACK-075G-50	3/4	1.14	300	50	0.40	Green	----
JACK-075BL-50	3/4	1.14	300	50	0.40	Blue	----
JACK-075-CUASSP*	3/4"	1.14	300	50	0.40	Red	----

Standard Length: 50'
Recommended Couplings: High Pressure, mine stem and nut, Universal quick acting. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

* C/W CRIMP UNIVERSAL ASSEMBLED

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

EPDM GENERAL PURPOSE 300



APPLICATION:Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.
COVER:Smooth red abrasion and weather resistant EPDM synthetic rubber
REINFORCEMENT:Multiple layers of synthetic yarn TUBE:Synthetic oil mist resistant EPDM synthetic rubber
TEMPERATURE:-30C to +93C(-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
*GPE-025-300	1/4	0.55	300	300	0.14	----
*GPE-038-300	3/8	0.70	300	300	0.20	----
*GPE-050-300	1/2	0.87	300	300	0.27	----
*GPE-063-300	5/8	0.98	300	300	0.31	----
GPE-075-300	3/4	1.16	300	300	0.44	----
* GPE-100-300	1	1.42	300	300	0.59	----

Standard Length: 300'
Recommended Couplings: High Pressure, Short shank, universal, or Combination nipples all other sizes. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PREMIUM GENERAL PURPOSE NON CONDUCTIVE WITH REEL



APPLICATION: A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.
COVER: Red, oil, grease, weather and abrasion resistant nitrile.
REINFORCEMENT: Multiple layers of synthetic yarn
TUBE: Black oil resistant nitrile rubber
TEMPERATURE: -32C to +85C(-25F to +185F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PREMR-038-300	3/8	0.67	300	300	0.17	----
PREMR-050-300	1/2	0.79	300	300	0.21	----
PREMR-075-300	3/4	1.14	300	300	0.39	----
PREMR-100-300	1	1.42	300	300	0.51	----
PREM-125-250	1-1/4	1.77	300	200	0.70	----

Standard Length: 1/4"- 1" 50'/100'/300'. 1-1/4" - 2" 50'/100'.
Recommended Couplings: High Pressure 1"to 1-1/2" for air service if the working pressure exceeds 150 psi. High Pressure, Short shank, universal, or Combination nipples all other sizes. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PUSH-ON BLACK



APPLICATION:Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions. Also suitable for air and water service
COVER:Black, oil, weather and abrasion resistant Neoprene.
REINFORCEMENT:Multiple layers of polyester yarns.
TUBE:Black oil resistant nitrile rubber.
TEMPERATURE:-32C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PON-025-B	1/4	0.50	250	700'	0.10	----
PON-038-B	3/8	0.63	250	700'	0.14	----
PON-050-B	1/2	0.75	250	700'	0.17	----
PON-063-B	5/8	0.91	250	700'	0.19	----
PON-075-B	3/4	1.03	250	500'	0.19	----

Standard Length: Supplied on reels
Recommended Couplings: Push-on

MARINE EXHAUST HARDWALL



APPLICATION:Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAEJ 2006 R1
COVER:Black heat and weather resistant synthetic rubber with blue identification stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black heat resistant rubber specially compounded for wet marine exhaust service.
TEMPERATURE:-40C to +100C(-40F to +212F)

PART #	NOM. ID"	NOM. OD"	STD PACK	WEIGHT#	
MXH-238	2-3/8	2.68	100'	1.98	----
MXH-250	2-1/2	2.81	100'	1.82	----
MXH-300	3	3.54	100'	2.12	----
MXH-350	3-1/2	4.09	100'	2.77	----
MXH-400	4	4.57	100'	3.22	----
MXH-500	5	5.55	100'	3.59	----

Standard Length: Supplied on reels
Recommended Couplings: Push-on

MATERIAL HANDLING
HOSE ACCESSORIES

FUEL LINE



APPLICATION:Fuel and vapour emission lines, meets SAE 30R7 specification and is USCG Type B and BIA approved.
COVER:Black heat and fuel resistant Hypalon.
REINFORCEMENT:Two layers of synthetic yarns.
TUBE:Black fuel resistant nitrile rubber.
TEMPERATURE:-40C to +120C(-40F to +250F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
FUEL-025	1/4	0.49	50	300'	0.10	----
FUEL-031	5/16	0.58	50	300'	0.13	----
FUEL-038	3/8	0.63	50	300'	0.13	----

Cut Lengths: Plus 5%
Standard Length: 300' coils:
Recommended Couplings: Barbed short shank, combination nipples.

ARI SUCTION



APPLICATION:Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Cover is a specially formulated static dissapative compound with low temperature flexibility.
COVER:Black HMW PVC
REINFORCEMENT:Anti shock rigid pvc helix
TUBE:Polyurethane
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
ARI-300	3	3.65	29	40	4.00	100'	1.18	----
ARI-400	4	4.76	29	35	6.00	100'	1.95	----
ARI-600	6	6.80	28	30	12.00	100'	3.51	----

Standard Length: 100'
Safety Info: Suction and pressure ratings are based on a temperature of 20C (68F), reduce ratings by 50% at maximum working temperature. This
hose has no fabric reinforcement and normally should not be used under pressure for service at temperatures above 25C (75F).
Recommended Couplings: Cam and groove

BULKMASTER SOFTWALL



APPLICATION:Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.
COVER:Black abrasion and weather resistant synthetic rubber.
REINFORCEMENT:Multiple layers of high tensile synthetic cords.
TUBE:Black abrasion resistant ant-static natural rubber in 1/8", 3/16" and 1/4"
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
BSB-400-187	4	4.64	75	100'	2.33	----
BSB-400-250	4	4.72	75	100'	2.65	----
BSB-450-125	4-1/2	5.00	75	100'	2.09	----
BSB-500-187	5	5.63	75	100'	2.75	----
BSB-500-250	5	5.79	75	100'	3.50	----
BSB-600-250	6	6.81	75	100'	4.29	----

Standard Length: 100'
Product Info: Longer lengths available, check for price and availability
Recommnded Couplings: Cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

INDUSTRIAL VACUUM HEAVY DUTY LENGTHS



APPLICATION:For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.
COVER:Black abrasion resistant rubber, corrugated for flexibility.
REINFORCEMENT:A high tensile steel helix embedded between layers of textile cords.
TUBE:1/4" or 1/8" red Pure Gum abrasion resistant rubber standard.
TEMPERATURE:-30C to +80C(-25F to +180F)

PART #	ASSEMBLY DESCRIPTION	NOM. OD"	VACUUM	PSI	BEND RADIUS"	WEIGHT#	
IVB-800-250RPG2	8"x25' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	190.00	----
IVB-800-250RPG3	8"x32' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	243.80	----
IVB-800-250RPG7	8"x70' H.D.IND VAC. 1/4" Red Tube	9.01	28	50	30.00	716.10	----

MATERIAL HANDLING
HOSE ACCESSORIES

SANDBLAST



APPLICATION:For conducting sand, steel shot, and other abrasives for blast cleaning.
COVER:Black static conductive synthetic rubber.
REINFORCEMENT:Two (SBB) or Four (SBB4) layers of synthetic textile cords.
TUBE:Thick black static conductive abrasion resistant natural rubber.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
SBB-075-100	3/4	1.50	150	100'	0.68	----
SBB-075-50	3/4	1.50	150	50'	0.68	----
SBB-125-100S	1-1/4	2.16	150	100'	1.22	----
SBB-125-50S	1-1/4	2.16	150	50'	1.22	----
SBB-150-50	1-1/2	2.36	150	50'	1.36	----
SBB-300	3	3.98	150	100'	2.57	----

Standard Length: 50'/100'
Product Info: Longer lengths available up to 200'. Surcharges may apply
Recommended Couplings: Sandblast

EPDM WATER SUCTION



APPLICATION:For use in liquid waste suction application. Also for use with liquid or dry chemcial suction applications or general industrial use where high working pressures are not required.
COVER:Green Polyethylene helix and specially formulated rubber.
REINFORCEMENT:Rigid green Polyethylene helix.
TUBE:Smooth specially formulated rubber
TEMPERATURE:-40C to +60C(-40F to +140F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
EPDM-150	1-1/2	1.85	29	50	3.50	100'	0.40	----
EPDM-200	2	2.44	29	50	5.50	100'	0.67	----
EPDM-300	3	3.52	29	42	7.50	100'	1.10	----
EPDM-400	4	4.61	29	38	12.00	100'	1.84	----

Standard Length: 100'
Recommended Couplings: Cam and groove or short shank, Crimplok camd and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

FLEXLITE UHMW



APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperature characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green corrugated chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLX-075	3/4	1.22	29	200	2.00	100'	0.40	----
FLX-100	1	1.46	29	200	2.50	100'	0.47	----
FLX-150	1-1/2	2.01	29	200	3.75	100'	0.80	----
FLX-200	2	2.52	29	200	5.00	100'	1.00	----
FLX-300	3	3.58	29	200	7.50	100'	1.74	----
FLX-400	4	4.64	29	150	10.00	100'	2.48	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose.

FLEXCHEMS



APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications.This hose is very flexible due to its corrugated cover and low temperaqture characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.
COVER:Green chemical resistant EPDM rubber
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube
TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLXS-100	1	1.46	29	200	4.00	100'	0.62	----
FLXS-200	2	2.60	29	200	6.00	100'	1.14	----
FLXS-300	3	3.62	29	200	8.00	100'	2.26	----
FLXS-400	4	4.65	29	200	12.00	100'	3.25	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

FLEXLITE PETROLEUM TANK 150



APPLICATION:An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black corrugated, abrasion, gasoline and oil resistant synthetic rubber with green stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TTD150-200	2	2.53	29	150	4.00	100'	1.44	----
TTD150-300	3	3.62	29	150	6.00	100'	2.48	----
TTD150-400	4	4.72	29	150	9.00	100'	3.63	----

Standard Length: 100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK 150



APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLBS150-100	1	1.42	29	150	3.00	100	0.57	----
TLBS150-150	1-1/2	1.93	29	150	4.00	100	0.81	----
TLBS150-200	2	2.52	29	150	4.50	100	1.38	----
TLBS150-300	3	3.54	29	150	7.00	100	2.19	----
TLBS150-400	4	4.68	29	150	10.00	100	3.56	----
TLBS150-600	6	6.89	29	150	21.00	100	6.65	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK



APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLB-075	3/4	1.14	29	150	3.00	100'	0.43	----
TLB-100	1	1.42	29	150	3.00	100'	0.57	----
TLB-125	1-1/4	1.65	29	150	3.50	100'	0.62	----
TLB-150	1-1/2	1.93	29	150	4.00	100'	0.81	----
TLB-200	2	2.52	29	150	4.50	100'	1.38	----
TLB-250	2-1/2	2.99	29	150	4.75	100'	1.72	----
TLB-400	4	4	29	150	10.00	100'	3.56	----
TLB-600	6	6	29	150	21.00	100'	6.65	----

OIL VACUUM - SMOOTH



APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
OILVS-150	1-1/2	1.89	29	150	4.00	100	0.75	----
OILVS-200	2	2.43	29	150	4.50	100	1.07	----
OILVS-300	3	3.47	29	150	7.00	100	1.78	----
OILVS-400	4	4.52	29	150	10.00	100	2.58	----
OILVS-600	6	6.60	29	150	21.00	100	5.50	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

TANK TRUCK 300



APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 300 PSI. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
TLBS300-200	2	2.62	29	300	5.00	100'	1.43	----
TLBS300-300	3	3.67	29	300	7.00	100'	2.20	----
TLBS300-400	4	4.71	29	300	10.00	100'	3.63	----
TLBS300-600	6	6.91	29	300	21.00	100'	6.90	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

OIL VACUUM CORRUGATED



APPLICATION:Designed for transferring petroleum waste, sediments, sludge, diluted mild chemicals, brine and water in oil field tank and waste pit recovery applications, not suitable for refined petroleum products or high concentrations of chemicals
COVER:Black, corrugated abrasion oil resistant synthetic rubber with blue stripe and pressure
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black synthetic rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
OILVC-200	2	2.44	29	150	4.00	100'	0.89	----
OILVC-300	3	3.46	29	150	6.00	100'	1.42	----
OILVC-400	4	4.52	29	150	9.00	100'	2.44	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

FRACLINE 400



APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
FRAC400-300	3	3.65	400	100'	1.80	----
FRAC400-400	4	4.80	400	100'	2.81	----
FRAC400-600	6	6.80	400	100'	5.20	----

Standard Length: 100'
Recommended Couplings: Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM DISCHARGE



APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.
COVER:Red, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PDR-125	1-1/4	1.69	150	100'	0.58	----
PDR-150	1-1/2	1.97	150	100'	0.78	----
PDR-300	3	3.50	150	100'	1.64	----
PDR-400	4	4.57	150	100'	2.46	----
PDR-600	6	6.72	150	100'	3.89	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference.

PETROLEUM STEAM AND CHEMICAL HOSE
HOSE ACCESSORIES

PETROLEUM DISCHARGE 250



APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.
COVER:Black, heat, oil and weather resistant Neoprene.
REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.
TUBE:Black, heat and oil resistant synthetic rubber.
TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
PDB250-200	2	2.50	250	100'	1.14	----
PDB250-300	3	3.54	250	100'	1.80	----
PDB250-400	4	4.64	250	100'	2.81	----
PDB250-600	6	6.69	250	100'	5.20	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HOT TAR AND ASPHALT



APPLICATION:Specially designed for conveying hot tar and asphalt at temperatures up to 160 C (350 F).
COVER:Black Neoprene synthetic rubber.
REINFORCEMENT:High tensile wire helix embedded between multiple layers of heat resistant synthetic yarns
TUBE:Specially compounded heat resistant synthetic rubber compound.
TEMPERATURE:up to +177C(350F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HTA-300	3	3.77	150	100'	2.94	----
HTA-400	4	4.85	150	100'	4.20	----

Standard Length: 100'
Recommended Couplings: Cam and Grove, combination nipple. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM TRANSFER



APPLICATION:For use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface. Static wire embedded in helix for ease of grounding.
COVER:Orange PVC Helix with built in static wire
REINFORCEMENT:High tensile synthetic textile yarn
TUBE:Specially formulated compound for fuel transfer
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
FLDROP-200	2	2.87	150	5.00	100'	1.29	----
FLDROP-400	4	5.00	75	12.00	100'	2.51	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

STEAM 250 BLACK



APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Black abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
ST250B-075-50	3/4	1.26	250	50'	0.48	----
ST250B-100-50	1	1.50	250	50'	0.60	----
ST250B-150-50	1-1/2	2.13	250	50'	1.10	----
ST250B-200-50	2	2.64	250	50'	1.48	----

Standard Length: 50'
Recommended Couplings: High Pressure with interlocking clamps

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

STEAM 250



APPLICATION:An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER:Red abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of high tensile steel cords.
TUBE:Black heat resistant EPDM synthetic rubber.
TEMPERATURE:-40C to +210C(-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
ST250-075-50	3/4	1.26	250	50'	0.48	----
ST250-075-100	3/4	1.26	250	100'	0.48	----
ST250-100-50	1	1.50	250	50'	0.60	----
ST250-100-100	1	1.50	250	100'	0.60	----
ST250-200-50	2	2	250	50'	1.48	----
ST250-200-100	2	2	250	100'	1.48	----
ST250-300	3	3	250	100'	3.40	----

Standard Length: 50'/100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: High Pressure with interlocking clamps

Work hard for what you want because it won't come to you without a fight. You have to be strong and courageous and know that you can do anything you put your mind to. If somebody puts you down or criticizes you, just keep on believing in yourself and turn it into something positive.

- Leah LaBelle

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BLUE LAYFLAT



APPLICATION:A LIGHT DUTY LAYFLAT HOSE FOR PORTABLE PUMP AND IRRIGATION USE.
COVER:Blue PVC impregnation. REINFORCEMENT:Woven high tensile synthetic yarns. TUBE:Blue PVC impregnation.
TEMPERATURE:-10C to +55C(15F to +130F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	
BLAY-100	1	1.11	150	300	0.13	----
BLAY-125	1-1/4	1.37	130	300	0.15	----
BLAY-150	1-1/2	1.63	70	300	0.15	----
*BLAY-200	2	2.13	65	300	0.20	----
BLAY-250	2-1/2	2.63	65	300	0.27	----
*BLAY-300	3	3.13	60	300	0.33	----
*BLAY-400	4	4.14	60	300	0.46	----
*BLAY-600	6	6.15	35	300	0.78	----

Standard Length: Multiples of 50' up to 300' maximum
Product Info: Please specify length required when ordering, i.e.50', 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove or short shank

BLUE LAYFLAT ASSEMBLY



PART #	ASSEMBLY DESCRIPTION	WEIGHT#	
BLAY-150-CASS	1-1/2" X 50' BLUE LAYFLAT +C/E CAMLOCK	7.00	----
BLAY-200-CASS	2"X50'BLUE LAYFLAT+C/E CAMLOCK	12.20	----
*BLAY-300-CASS	3"X50'BLUE LAYFLAT+C/E CAMLOCK	20.63	----
*BLAY-400-CASS	4"X50'BLUE LAYFLAT+C/E CAMLOCK	29.49	----
BLAY-600-CASS	6"X50'BLUE LAYFLAT+C/E CAMLOCK	51.08	----

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BROWN LAYFLAT - HEAVY DUTY



APPLICATION:Heavy duty layflat hose for portable pump and irrigation use.
COVER:Brown PVC impregnation.
REINFORCEMENT:Woven high tensile synthetic yarns.
TUBE:Brown heavy PVC impregnation.
TEMPERATURE:-10C to +60C(15F to +140F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	
BRLAYHD-200	2	2.15	150	300'	0.26	----
BRLAYHD-300	3	3.19	150	300'	0.52	----
BRLAYHD-400	4	4.27	135	300'	0.74	----
BRLAYHD-600	6	6.26	115	300'	1.21	----

Successful people maintain a positive focus in life no matter what is going on around them. They stay focused on their past successes rather than their past failures, and on the next action steps they need to take to get them closer to the fulfillment of their goals rather than all the other distractions that life presents to them.

- Jack Canfield

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

DURAFLEX - RUBBER LAYFLAT



APPLICATION:SPECIFICALLY MANUFACTURED TO COMPETE WITH OROFLEX IMITATION HOSE. THIS IS A LIGHTWEIGHT HIGH PRESSURE, EXTREMELY STRONG HOSE FOR GENERAL WATER DISCHARGE SERVICE. IDEAL FOR RENTAL SERVICE WHERE LONG LIFE AND
competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water. COVER:Black abrasion, weather and oil resistant nitrile rubber. REINFORCEMENT:Circular woven synthetic yarns.
TUBE:Black abrasion and oil resistant nitrile rubber.
TEMPERATURE:-20C to +80C(0F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
DURFL-200	2	2.18	200	200	0.31	----
*DURFL-300	3	3.22	175	200	0.59	----
*DURFL-400	4	4.24	150	200	0.65	----
*DURFL-600	6	6.26	150	200	1.10	----

Standard Length: 50'/100'
Product Info: 200 Lengths Will Be Shipped Unless Otherwise Specified On Duraflex
Recommended Couplings: Cam and groove, combination nipples or short shank. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

DURAFLEX - RUBBER LAYFLAT ASSEMBLY



PART #	ASSEMBLY DESCRIPTION	WEIGHT#	
DURFL-200-CASSP	2"x50' DURAFLEX + C/E CAMLOCK	14.20	----
DURFL-300-CASSP	3"x50' DURAFLEX + C/E CAMLOCK	21.63	----
DURFL-400-CASSP	4"x50' DURAFLEX + C/E CAMLOCK	28.99	----
DURFL-600-CASSP	6"x50' DURAFLEX + C/E CAMLOCK	51.67	----

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

HIGH PRESSURE CONTRACTORS WATER DISCHARGE



APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HPCWB-150	1-1/2	1.77	150	100'	0.49	----
HPCWB-200	2	2.28	150	100'	0.48	----
HPCWB-300	3	3.35	150	100'	1.08	----
HPCWB-400	4	4.37	150	100'	1.38	----
HPCWB-600	6	6.46	150	100'	2.62	----

Standard Length: 50'/100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok camd and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HIGH PRESSURE WATER DISCHARGE 250



APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads
COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.
REINFORCEMENT:Multiple layers of synthetic yarn.
TUBE:Black synthetic rubber compounded for water service.
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	
HPCWB200-150	1-1/2			100'		----
HPCWB250-200	2	2.40	250	100'	1.15	----
HPCWB250-300	3	3.46	250	100'	1.60	----
HPCWB200-400	4	4.48	200	100'	2.15	----

Standard Length: 100'
Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN GREEN PVC WATER S&D



APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SATG-075	3/4	0.95	29	90	2.00	100	0.16	----
*SATG-100	1	1.24	29	85	3.00	100	0.26	----
*SATG-125	1-1/4	1.54	29	80	4.00	100	0.34	----
*SATG-150	1-1/2	1.81	29	70	6.00	100	0.44	----
*SATG-200	2	2.29	29	65	5.00	100	0.57	----
SATG-250	2-1/2	2.85	29	60	6.00	100	0.87	----
*SATG-300	3	3.43	29	60	12.00	100	1.21	----
SATG-400	4	4.45	29	50	10.00	100	1.78	----

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN OLIVE GREEN PVC WATER S&D



APPLICATION:AN ECONOMICAL, FLEXIBLE HOSE FOR CONSTRUCTION PUMPS, SEPTIC TANK & MARINE PUMP-OUT SERVICE. RESISTANT TO SOME CHEMICALS, MILD ACIDS & ALKALIS. CONSULT US FOR RECOMMENDATIONS.
COVER:Green abrasion and weather resistant PVC.
REINFORCEMENT:Green PVC helix
TUBE:Smooth green PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	BEND RADIUS"	STD PACK	WEIGHT#	
*SATO-200	2	2.34	29	5.00	100	0.66	----
*SATO-300	3	3.46	29	12.00	100	1.24	----
SATO-400	4	4.49	29	10.00	100	1.85	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SATURN PVC WATER S&D



APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds and a slightly corrugated cover allow for increased flexibility at low temperatures.
COVER:Clear abrasion and weather resistant extra soft PVC.
REINFORCEMENT:Blue PVC helix. SAT-XXX-BLK - Black helix
TUBE:Smooth clear extra soft PVC.
TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SAT-200	2	2.35	26	35	5.00	100'	0.49	----
SAT-300	3	3.42	24	30	7.50	100'	0.81	----
SAT-400	4	4.50	22	25	10.00	100'	1.52	----
SAT-600	6	6.58	22	21	15.00	100'	2.72	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN WHITE PVC WATER SUCTION AND DISCHARGE HOSE



APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.
COVER:Clear abrasion and weather resistant PVC.
REINFORCEMENT:White PVC helix.
TUBE:Smooth clear PVC.
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SATW-100	1	1.18	29	85	3.00	100'	0.19	----
SATW-125	1-1/4	1.47	29	80	3.00	100'	0.29	----
SATW-150	1-1/2	1.72	29	70	4.00	100'	0.35	----
SATW-200	2	2.29	29	65	5.00	100'	0.57	----
SATW-300	3	3.35	29	55	8.00	100'	1.03	----
SATW-400	4	4.45	29	50	10.00	100'	1.78	----
SATW-600	6	6.56	29	40	24.00	100'	3.70	----

Standard Length: 100'
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SUPERFLEX PVC SUCTION



APPLICATION:Specially designed for use in the installation of pool, spa and hot tubs. Can also be used in a variety of water transfer applications where flexible lines are needed to replace rigid piping.
COVER:Soft white PVC
REINFORCEMENT:White PVC helix
TUBE:Smooth white PVC
TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
SUPER-200	2	2.39	29	70	7.00	100'	0.75	----

Standard Length: 100'
Product Info: Our warranty does not cover damage caused by rodents or any insect. Not for underground use in areas infested by termites.
Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature
Recommended Couplings: SCH40

RUBBER WATER S&D



APPLICATION:A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.
COVER:Black smooth abrasion and weather resistant synthetic rubber. REINFORCEMENT:High tensile wire helix embedded between layers of textile cords. TUBE:Smooth black synthetic rubber.
TEMPERATURE:-30C to +80C(-22F to +180F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
WSB-125	1-1/4	1.65	29	150	4.00	100	0.77	----
*WSB-150	1-1/2	1.93	29	150	4.00	100	1.00	----
*WSB-200	2	2.48	29	150	5.00	100	1.37	----
*WSB-300	3	3.50	29	150	10.00	100	2.23	----
*WSB-400	4	4.64	29	150	14.00	100	3.73	----
*WSB-600	6	6.66	29	150	30.00	100	5.99	----

Standard Length: 3/4" to 4" - 50'/100' -- 5" and 6" - 20'/100' -- 8" - 20'/60' -- 10" - 40' -- 12" - 20'
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. Cam and groove,
combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are
derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working
pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

TEXTILE REINFORCED S&D



APPLICATION:GOOD FOR BOTH SUCTION AND DISCHARGE APPLICATIONS, THIS HEAVY DUTY HOSE CAN BE USED FOR RENTAL/CONSTRUCTION PUMPING AS WELL AS FISH SUCTION HOSE.
COVER:Clear abrasion and weather resistant PVC. REINFORCEMENT:Orange PVC helix with high tensile synthetic textile yarn. TUBE:Smooth clear PVC.
TEMPERATURE:-23C to +65C(-10F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	
*RSPVC -200	2	2.59	29	110	4.00	100	0.65	----
*RSPVC-300	3	3.71	29	100	6.00	100	1.12	----
*RSPVC-400	4	4.78	29	80	7.00	100	1.74	----
*RSPVC-600	6	7.17	28	70	10.50	100	3.87	----

Standard Length: 100'
Safety Info: Reduce pressures by 50% at maximum working temperature
Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

CRIMPLOK

SELF LOCKING
CAM & GROOVE



STAINLESS STEEL &
ALUMINUM

UNIVERSAL FITTINGS

CRIMPLOCK KING NIPPLES



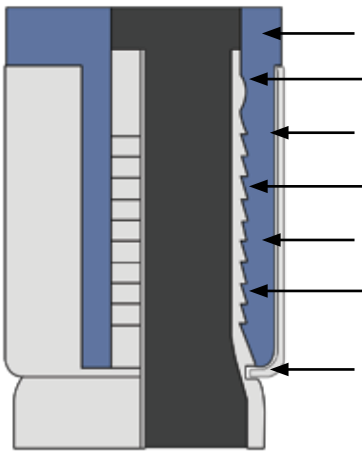
CRIMPLOK FERRULES - PLATED STEEL - STAINLESS STEEL ALUMINUM





SOLID DEPENDABLE SAFE

FEATURES AND BENEFITS



The ferrule is crimped into this groove for hose retention

Crimplok is the best way to ensure a perfect hose connection every time!

- All fittings have a Crimplok groove for the ferrule end the Lok into for a strong permanent seal.
- Serrations on the couplings and fittings are not as sharp at the top, but become sharper towards the Crimplok groove.
- The length of the barb and sleeve/ ferrule are matched for a safer, cleaner connection.
- Crimplok connections do not have sharp clamp buckles or edges
- Interchangeable with most market systems

ALUMINUM SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCSL-XXX-A1	X" DUST CAP ALUMINUM CRIMPLOK SELF LOCKING
CGBSL-XXX-A1	X" PART B ALUMINUM CRIMPLOK SELF LOCKING
CGCSL-XXXCR-A1	X" PART C ALUMINUM CRIMPLOK SELF LOCKING
CGDSL-XXX-A1	X" PART D ALUMINUM PRIMPLOK SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B



CGBSL

PART#	SIZE	
CGBSL-200-A1	2"	----
CGBSL-300-A1	3"	----
CGBSL-400-A1	4"	----
CGBSL-600-A1	6"	----

FEMALE COUPLER X FEMALE NPT TYPE D



CGDSL

PART#	SIZE	
CGDSL-200-A1	2"	----
CGDSL-300-A1	3"	----
CGDSL-400-A1	4"	----
CGDSL-600-A1	6"	----

FEMALE COUPLER X HOSE SHANK TYPE C



CGCSL

PART#	SIZE	
CGCSL-200CR-A1	2"	----
CGCSL-300CR-A1	3"	----
CGCSL-400CR-A1	4"	----
CGCSL-600CR-A1	6"	----
CGCSL-600CR-A4	6" w/4 arms	----

DUST CAP TYPE DC



CDCSL

PART#	SIZE	
CDCSL-200-A1	2"	----
CDCSL-300-A1	3"	----
CDCSL-400-A1	4"	----
CDCSL-600-A1	6"	----

STAINLESS STEEL SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
  - Dust Cap
  - Part B
  - Part C
  - Part D

Sample item code	Description
CDCL-XXX-SS1	X" DUST CAP STAINLESS CRIMPLOK 316 SELF LOCKING
CGBSL-XXX-SS1	X" PART B STAINLESS CRIMPLOK 316 SELF LOCKING
CGCSL-XXXCR-SS1	X" PART C STAINLESS 316 CRIMPLOK SELF LOCKING
CGDSL-XXX-SS1	X" PART D STAINLESS CRIMPLOK 316 SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B

CGBSL



PART#	SIZE	
CGBSL-200-SS1	2"	----
CGBSL-300-SS1	3"	----
CGBSL-400-SS1	4"	----
CGBSL-600-SS1	6″	----

FEMALE COUPLER X FEMALE NPT TYPE D

CGDSL



PART#	SIZE	
CGDSL-200-SS1	2"	----
CGDSL-300-SS1	3"	----
CGDSL-400-SS1	4"	----
CGDSL-600-SS1	5″	----

FEMALE COUPLER X HOSE SHANK TYPE C

CGCSL



PART#	SIZE	
CGCSL-200CR-SS1	2"	----
CGCSL-300CR-SS1	3"	----
CGCSL-400CR-SS1	4"	----
CGCSL-600CR-SS1	6"	----

DUST CAP TYPE DC

CDCSL



PART#	SIZE	
CDCSL-200-SS1	2"	----
CDCSL-300-SS1	3"	----
CDCSL-400-SS1	4"	----
CDCSL-600-SS1	5″	----

CRIMPLOK
HOSE ACCESSORIES

CRIMPLOK ALUMINUM CAM & GROOVE COUPLINGS

TYPE C



PART#	SIZE	
CGC-150CR-A1	1-1/2"	----
CGC-200CR-A1	2"	----
CGC-250CR-A1	2-1/2"	----
CGC-300CR-A1	3"	----
CGC-400CR-A1	4"	----
CGC-600CR-A1	6"	----
CGC-800CS-A1	8"	----

TYPE E



PART#	SIZE	
CGE-150CR-A1	1-1/2"	----
CGE-200CR-A1	2"	----
CGE-250CR-A1	2-1/2"	----
CGE-300CR-A1	3"	----
CGE-400CR-A1	4"	----
CGE-600CR-A1	6"	----
CGE-800CS-A1	8"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK STAINLESS CAM & GROOVE COUPLINGS

TYPE C



TYPE E



TYPE C

PART#	SIZE	
CGC-100CR-SS1	1"	----
CGC-150CR-SS1	1-1/2"	----
CGC-200CR-SS1	2"	----
CGC-300CR-SS1	3"	----
CGC-400CR-SS1	4"	----

TYPE E

PART#	SIZE	
CGE-100CR-SS1	1"	----
CGE-150CR-SS1	1-1/2"	----
CGE-200CR-SS1	2"	----
CGE-300CR-SS1	3"	----
CGE-400CR-SS1	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP UNIVERSAL FITTINGS



PART#	SIZE	MAX OPERATING PSI 70F	
FHE-075-MP	3/4	150	----
HE-050CF-SP	1/2	150	----
HE-075CF-SP	3/4	150	----
HE-075CR-SP	3/4	150	----
HE-100CF-SP	1	150	----
HE-100CR-SP	1	150	----
HE-101CF-SP	1	150	----

HIGH PRESSURE FEMALE STEM



PART#	SIZE	
GJS-050CR-SP	1/2	----
GJS-075CR-SP	3/4	----
GJS-100CR-SP	1	----
GJS-125CR-SP	1-1/4	----
GJS-150CR-SP	1-1/2	----
GJS-200CR-SP	2	----
GJS-250CR-SP	2-1/2	----
GJS-300CR-SP	3	----
GJS-400CR-SP	4	----

HIGH PRESSURE FEMALE STEM



PART#	SIZE	
GJM-050CR-SP	1/2	----
GJM-075CR-SP	3/4	----
GJM-100CR-SP	1	----
GJM-125CR-SP	1-1/4	----
GJM-150CR-SP	1-1/2	----
GJM-200CR-SP	2	----
GJM-250CR-SP	2-1/2	----
GJM-300CR-SP	3	----
GJM-400CR-SP	4	----

CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL



PART#	SIZE	
*CNT-100CR-SP	1"	----
*CNT-125CR-SP	1-1/4"	----
*CNT-150CR-SP	1-1/2"	----
*CNT-200CR-SP	2"	----
*CNT-250CR-SP	2-1/2"	----
*CNT-300CR-SP	3"	----
*CNT-400CR-SP	4"	----
*CNT-600CR-SP	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS



PART#	SIZE	
*CNT-100CR-SS316	1"	----
CNT-125CR-SS316	1-1/4"	----
*CNT-150CR-SS316	1-1/2"	----
*CNT-200CR-SS316	2"	----
*CNT-250CR-SS316	2-1/2"	----
*CNT-300CR-SS316	3"	----
*CNT-400CR-SS316	4"	----
*CNT-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT



PART#	SIZE	
*CNL-200CR-SP	2"	----
*CNL-250CR-SP	2-1/2"	----
*CNL-300CR-SP	3"	----
*CNL-400CR-SP	4"	----

Project Information: For use with CRIMPLOK Long Ferrules CF-XXXXXL-SP

CRIMPLOK HD COMBINATION NIPPLE PLATED



PART#	SIZE	
*CNT-400CS-SP	4"	----
*CNT-600CS-SP	6"	----
*CNT-800CS-SP	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE UNPLATED



PART#	SIZE	
*CNT-400CS-S	4"	----
*CNT-600CS-S	6"	----
CNT-800CS-S	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED



PART#	SIZE	
*CNG-400CS-SP	4"	----
*CNG-600CS-SP	6"	----
*CNG-800CS-SP	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED



PART#	SIZE	
*CNG-400CS-S	4"	----
*CNG-600CS-S	6"	----
*CNG-800CS-S	8"	----

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK KING NIPPLES
HOSE ACCESSORIES

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL



PART#	SIZE	
*CNG-200CR-SP	2"	----
*CNG-300CR-SP	3"	----
*CNG-400CR-SP	4"	----
*CNG-600CR-SP	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS



PART#	SIZE	
CNG-200CR-SS316	2"	----
CNG-250CR-SS316	2-1/2"	----
CNG-300CR-SS316	3"	----
CNG-400CR-SS316	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#



PART#	SIZE	
*CNFL-200CR-S	2"	----
*CNFL-300CR-S	3"	----
*CNFL-400CR-S	4"	----
*CNFL-600CR-S	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP
Stainless Steel available - add S316 to part #

CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL



PART#	SIZE	
*CNTB-200CR-S	2"	----
*CNTB-300CR-S	3"	----
*CNTB-400CR-S	4"	----
*CNTB-600CR-S	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP TURN BACK NIPPLES STAINLESS



PART#	SIZE	
*CNTB-200CR-SS316	2"	----
*CNTB-300CR-SS316	3"	----
*CNTB-400CR-SS316	4"	----
*CNTB-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED



PART#	SIZE	
*CNSC-300CR-SP	3"	----
*CNSC-400CR-SP	4"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150#



PART#	SIZE	
*CNFL-200CR-SS316	2"	----
*CNFL-300CR-SS316	3"	----
*CNFL-400CR-SS316	4"	----
*CNFL-600CR-SS316	6"	----

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FERRULES PLATED
HOSE ACCESSORIES



CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-08106T-SP	3/4	FLPS075112	1.1875"	2.14"	0.04	----
CFT-08107T-SP	3/4	FLPS075114	1.2188"	2.14"	0.04	----
CFT-08108T-SP	3/4	FLPS075116	1.2500"	2.14"	0.04	----
CFT-08109T-SP	3/4	FLPS075118	1.2812	2.14"	0.04	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-05101S-SP	3/4	FPS050104S	1.0625"	1.41"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D Tolerance = +/-0.012

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-08105-SP	3/4	FPS075120	1.3125"	2.14"	0.06	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-10114T-SP	1	FLPS100128	1.4375"	2.29"	0.04	----
CFT-10115T-SP	1	FLPS100130	1.4687"	2.29"	0.04	----
CFT-10117T-SP	1	FLPS100134	1.5000"	2.29"	0.04	----
CFT-10118T-SP	1	FLPS100136	1.5312"	2.29"	0.04	----

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-10109-SP	1	FPS100136	1.5625"	2.29"	0.06	----
CF-10110-SP	1	FPS100140	1.6250"	2.29"	0.06	----
CF-10111-SP	1	FPS100144	1.6875"	2.29"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-13113-SP	1-1/4	FPS125152	1.8125"	2.32"	0.06	----
CF-13114-SP	1-1/4	FPS125156	1.8750"	2.32"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES



CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15115-SP	1-1/2	FPS150160	1.9375"	2.36"	0.06	----
CF-15201-SP	1-1/2	FPS150204	2.0625"	2.36"	0.06	----
CF-15202-SP	1-1/2	FPS150208	2.1250"	2.36"	0.06	----
CF-15203-SP	1-1/2	FPS150212	2.1875"	2.36"	0.06	----
CF-15205-SP	1-1/2	FPS150220	2.3125	2.36"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15202L-SP	1-1/2	FPS150208L	2.1250"	2.91	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20208-SP	2	FPS200232	2.5000"	2.79"	0.06	----
CF-20209-SP	2	FPS200236	2.5625"	2.79"	0.06	----
CF-20210-SP	2	FPS200240	2.6250"	2.79"	0.06	----
CF-20211-SP	2	FPS200244	2.6875"	2.79"	0.06	----
CF-20212-SP	2	FPS200248	2.7500"	2.79"	0.06	----
CF-20213-SP	2	FPS200252	2.8125"	2.79"	0.06	----
CF-20214-SP	2	FPS200256	2.8750"	2.79"	0.06	----
CF-20215-SP	2	FPS200260	2.9375"	2.79"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20209L-SP	2	FPS200236L	2.5625"	3.41"	0.06	----
CF-20211L-SP	2	FPS200244L	2.6875"	3.41"	0.06	----
CF-20212L-SP	2	FPS200248L	2.7500"	3.41"	0.06	----
CF-20213L-SP	2	FPS200252L	2.8125"	3.41"	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-25303-SP	2-1/2	FPS250312	3.1875"	3.11"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-25303L-SP	2-1/2	FPS250312L	3.1875"	3.88"	0.06	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30309-SP	3	FPS300336	3.5625"	3.94"	0.09	----
CF-30310-SP	3	FPS300340	3.6250"	3.94"	0.09	----
CF-30311-SP	3	FPS300344	3.6875"	3.94"	0.09	----
CF-30312-SP	3	FPS300348	3.7500"	3.94"	0.09	----
CF-30313-SP	3	FPS300352	3.8125"	3.94"	0.09	----
CF-30314-SP	3	FPS300356	3.8750"	3.94"	0.09	----
CF-30315-SP	3	FPS300360	3.9375"	3.94"	0.09	----
CF-30400-SP	3	FPS300400	4.000"	3.94"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30310L-SP	3	FPS300340L	3.6250"	4.36"	0.09	----
CF-30311L-SP	3	FPS300344L	3.6875"	4.36"	0.09	----
CF-30312L-SP	3	FPS300348L	3.7500"	4.36"	0.09	----
CF-30313L-SP	3	FPS300352L	3.8125"	4.36"	0.09	----
CF-30314L-SP	3	FPS300356L	3.8750"	4.36"	0.09	----
CF-30315L-SP	3	FPS300360L	3.9375"	4.36"	0.09	----
CF-30400L-SP	3	FPS300400L	4.000"	4.36"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES



CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40409-SP	4	FPS400436	4.5625"	4.19"	0.09	----
CF-40410-SP	4	FPS400440	4.6250"	4.19"	0.09	----
CF-40411-SP	4	FPS400444	4.6875"	4.19"	0.09	----
CF-40412-SP	4	FPS400448	4.7500"	4.19"	0.09	----
CF-40413-SP	4	FPS400452	4.8125"	4.19"	0.09	----
CF-40414-SP	4	FPS400456	4.8750"	4.19"	0.09	----
CF-40415-SP	4	FPS400460	4.9375"	4.19"	0.09	----
CF-40500-SP	4	FPS400500	5.000"	4.19"	0.09	----
CF-40501-SP	4	FPS400504	5.0625"	4.19"	0.09	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40410L-SP	4	FPS400440L	4.6250"	5.20"	0.09	----
CF-40411L-SP	4	FPS400444L	4.6875"	5.20"	0.09	----
CF-40412L-SP	4	FPS400448L	4.7500"	5.20"	0.09	----
CF-40413L-SP	4	FPS400452L	4.8125"	5.20"	0.09	----
CF-40414L-SP	4	FPS400456L	4.8750"	5.20"	0.09	----
CF-40415L-SP	4	FPS400460L	4.9375"	5.20"	0.09	----
CF-40500L-SP	4	FPS400500L	5.000"	5.20"	0.09	----
CF-40501L-SP	4	FPS400504L	5.0625"	5.20"	0.09	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-60610-SP	6	FPS600640	6.6250"	5.67"	0.12	----
CF-60612-SP	6	FPS600648	6.7500"	5.67"	0.12	----
CF-60614-SP	6	FPS600656	6.8750"	5.67"	0.12	----
CF-60702-SP	6	FPS600708	7.1250"	5.67"	0.12	----
CF-60704-SP	6	FPS600716	7.2500"	5.67"	0.12	----

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES



CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-05101-SS304	1/2	FSS050104	1.0625"	2.14"	0.06	----
CF-05102-SS304	1/2	FSS050108	1.1250"	2.14"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-08105-SS304	3/4	FSS075120	1.3125"	2.14"	0.06	----
CF-08106-SS304	3/4	FSS075124	1.3750"	2.14"	0.06	----
CF-08108-SS304	3/4	FSS075132	1.5000"	2.14"	0.06	----

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-08104T-SS304	3/4	FLSS075108	1.1250"	2.14"	0.04	----
CFT-08106T-SS304	3/4	FLSS075112	1.1875"	2.14"	0.04	----
CFT-08107T-SS304	3/4	FLSS075114	1.2188"	2.14"	0.04	----
CFT-08108T-SS304	3/4	FLSS075116	1.2500"	2.14"	0.04	----
CFT-08109T-SS304	3/4	FLSS075118	1.2812"	2.14"	0.04	----

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-10108-SS304	1	FSS100132	1.5000"	2.29"	0.06	----
CF-10109-SS304	1	FSS100136	1.5625"	2.29"	0.06	----
CF-10110-SS304	1	FSS100140	1.6250"	2.29"	0.06	----
CF-10111-SS304	1	FSS100144	1.6875"	2.29"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CFT-10117T-SS304	1	FLSS100134	1.5312"	2.29"	0.04	----

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES



CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-13114-SS304	1-1/4	FSS125156	1.8750"	2.32"	0.06	----
CF-13115-SS304	1-1/4	FSS125160	1.9375"	2.32"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-15115-SS304	1-1/2	FSS150160	1.9375"	2.36"	0.06	----
CF-15200-SS304	1-1/2	FSS150200	2.000"	2.36"	0.06	----
CF-15201-SS304	1-1/2	FSS150204	2.0625"	2.36"	0.06	----
CF-15202-SS304	1-1/2	FSS150208	2.1250"	2.36"	0.06	----
CF-15203-SS304	1-1/2	FSS150212	2.1875"	2.36"	0.06	----
CF-15204-SS304	1-1/2	FSS150216	2.2500"	2.36"	0.06	----
CF-15205-SS304	1-1/2	FSS150220	2.3125"	2.36"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-20208-SS304	2	FSS200232	2.5000"	2.79"	0.06	----
CF-20209-SS304	2	FSS200236	2.5625"	2.79"	0.06	----
CF-20210-SS304	2	FSS200240	2.6250"	2.79"	0.06	----
CF-20211-SS304	2	FSS200244	2.6875"	2.79"	0.06	----
CF-20212-SS304	2	FSS200248	2.7500"	2.79"	0.06	----
CF-20213-SS304	2	FSS200252	2.8125"	2.79"	0.06	----
CF-20214-SS304	2	FSS200256	2.8750"	2.79"	0.06	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-30309-SS304	3	FSS300336	3.5625"	3.94"	0.10	----
CF-30310-SS304	3	FSS300340	3.6250"	3.94"	0.10	----
CF-30311-SS304	3	FSS300344	3.6875"	3.94"	0.10	----
CF-30312-SS304	3	FSS300348	3.7500"	3.94"	0.10	----
CF-30313-SS304	3	FSS300352	3.8125"	3.94"	0.10	----
CF-30314-SS304	3	FSS300356	3.8750"	3.94"	0.10	----
CF-30315-SS304	3	FSS300360	3.9375"	3.94"	0.10	----
CF-30400-SS304	3	FSS300400	4.000"	3.94"	0.10	----

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM
HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	
CF-40410-SS304	4	FSS400440	4.6250"	4.19"	0.10	----
CF-40411-SS304	4	FSS400444	4.6875"	4.19"	0.10	----
CF-40412-SS304	4	FSS400448	4.7500"	4.19"	0.10	----
CF-40413-SS304	4	FSS400452	4.8125"	4.19"	0.10	----
CF-40414-SS304	4	FSS400456	4.8750"	4.19"	0.10	----
CF-40415-SS304	4	FSS400500	5.000"	4.19"	0.10	----

Project Information: For use with crimp cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"



CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20209-A	2	SAL200236	2.5625"	2.79"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20210-A	2	SAL200240	2.6250"	2.79"	0.12	----
CSL-20211-A	2	SAL200244	2.6875"	2.79"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30310-A	3	SAL300340	3.6250"	3.94"	0.12	----
CSL-30313-A	3	SAL300352	3.8125"	3.94"	0.12	----
CSL-30314-A	3	SAL300356	3.8750"	3.94"	0.12	----
CSL-30315-A	3	SAL300360	3.9375"	3.94"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40411-A	4	SAL400444	4.6875"	4.19"	0.12	----
CSL-40412-A	4	SAL400448	4.7500"	4.19"	0.12	----
CSL-40413-A	4	SAL400452	4.8125"	4.19"	0.12	----
CSL-40414-A	4	SAL400456	4.8750"	4.19"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES



CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08106-SP	3/4	SPS075124	1.3750"	2.14"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-05100S-SP	1/2	SPS050100S	1.0000"	0.91"	0.06	----
CSL-08102S-SP	3/4	SPS075108S	1.1250"	1.10"	0.06	----
CSL-08105S-SP	3/4	SPS075120S	1.3125"	1.10"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10107-SP	1	SPS100128	1.4375"	2.29"	0.06	----
CSL-10108-SP	1	SPS100132	1.5000"	2.29"	0.06	----
CSL-10109-SP	1	SPS100136	1.5625"	2.29"	0.06	----
CSL-10110-SP	1	SPS100140	1.6250"	2.29"	0.06	----
CSL-10111-SP	1	SPS100144	1.6875"	2.29"	0.06	----
CSL-10112-SP	1	SPS100148	1.7500"	2.29"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10107S-SP	1	SPS100128S	1.4375"	2.26"	0.06	----
CSL-10108S-SP	1	SPS100132S	1.5000"	2.26"	0.06	----
CSL-10109S-SP	1	SPS100136S	1.5625"	2.26"	0.06	----
CSL-10111S-SP	1	SPS100144S	1.6875"	2.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13113S-SP	1-1/4	SPS125152S	1.8125"	1.26"	0.06	----
CSL-13114S-SP	1-1/4	SPS125156S	1.8750"	1.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15112-SP	1-1/2	SPS150148	1.7500"	2.36"	0.06	----
CSL-15115-SP	1-1/2	SPS150160	1.9375"	2.36"	0.06	----
CSL-15200-SP	1-1/2	SPS150200	2.0000"	2.36"	0.06	----
CSL-15201-SP	1-1/2	SPS150204	2.0625"	2.36"	0.06	----
CSL-15202-SP	1-1/2	SPS150208	2.1250"	2.36"	0.06	----
CSL-15203-SP	1-1/2	SPS150212	2.1875"	2.36"	0.06	----
CSL-15204-SP	1-1/2	SPS150216	2.2500"	2.36"	0.06	----
CSL-15205-SP	1-1/2	SPS150220	2.3125"	2.36"	0.06	----
CSL-15206-SP	1-1/2	SPS150224	2.3750"	2.36"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15202S-SP	1-1/2	SPS150208S	2.1250"	1.46"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20204-SP	2	SPS200216	2.2500"	2.79"	0.06	----
CSL-20206-SP	2	SPS200224	2.3750"	2.79"	0.06	----
CSL-20207-SP	2	SPS200228	2.4375"	2.79"	0.06	----
CSL-20208-SP	2	SPS200232	2.5000"	2.79"	0.06	----
CSL-20209-SP	2	SPS200236	2.5625"	2.79"	0.06	----
CSL-20210-SP	2	SPS200240	2.6250"	2.79"	0.06	----
CSL-20211-SP	2	SPS200244	2.6875"	2.79"	0.06	----
CSL-20212-SP	2	SPS200248	2.7500"	2.79"	0.06	----
CSL-20213-SP	2	SPS200252	2.8125"	2.79"	0.06	----
CSL-20214-SP	2	SPS200256	2.8750"	2.79"	0.06	----
CSL-20215-SP	2	SPS200260	2.9375"	2.79"	0.06	----
CSL-20300-SP	2	SPS200300	3.0000"	2.79"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20206S-SP	2	SPS200224S	2.3750"	1.81"	0.06	----
CSL-20207S-SP	2	SPS200228S	2.4375"	1.81"	0.06	----
CSL-20209S-SP	2	SPS200236S	2.5625"	1.81"	0.06	----
CSL-20210S-SP	2	SPS200240S	2.6250"	1.81"	0.06	----
CSL-20211S-SP	2	SPS200244S	2.6875"	1.81"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES



CRIMPLOK SLEEVES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-25302-SP	2-1/2	SPS250308	3.1250"	3.11"	0.06	----
CSL-25306-SP	2-1/2	SPS250324	3.3750"	3.11"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30304-SP	3	SPS300316	3.2500"	3.94"	0.09	----
CSL-30306-SP	3	SPS300324	3.3750"	3.94"	0.09	----
CSL-30307-SP	3	SPS300328	3.4375"	3.94"	0.09	----
CSL-30308-SP	3	SPS300332	3.5000"	3.94"	0.09	----
CSL-30309-SP	3	SPS300336	3.5625"	3.94"	0.09	----
CSL-30310-SP	3	SPS300340	3.6250"	3.94"	0.09	----
CSL-30311-SP	3	SPS300344	3.6875"	3.94"	0.09	----
CSL-30312-SP	3	SPS300348	3.7500"	3.94"	0.09	----
CSL-30313-SP	3	SPS300352	3.8125"	3.94"	0.09	----
CSL-30314-SP	3	SPS300356	3.8750	3.94"	0.09	----
CSL-30400-SP	3	SPS300400	4.000"	3.94"	0.09	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30306S-SP	3	SPS300324S	3.3750"	2.44"	0.09	----
CSL-30308S-SP	3	SPS300332S	3.5000"	2.44"	0.09	----
CSL-30309S-SP	3	SPS300336S	3.5625"	2.44"	0.09	----
CSL-30310S-SP	3	SPS300340S	3.6250"	2.44"	0.09	----
CSL-30311S-SP	3	SPS300344S	3.6875"	2.44"	0.09	----
CSL-30312S-SP	3	SPS300348S	3.7500"	2.44"	0.09	----
CSL-30313S-SP	3	SPS300352S	3.8125"	2.44"	0.09	----
CSL-30314S-SP	3	SPS300356S	3.8750"	2.44"	0.09	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED
HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40406-SP	4	SPS400424	4.3750"	4.19"	0.09	----
CSL-40408-SP	4	SPS400432	4.5000"	4.19"	0.09	----
CSL-40409-SP	4	SPS400436	4.5625"	4.19"	0.09	----
CSL-40410-SP	4	SPS400440	4.6250"	4.19"	0.09	----
CSL-40411-SP	4	SPS400444	4.6875"	4.19"	0.09	----
CSL-40412-SP	4	SPS400448	4.7500"	4.19"	0.09	----
CSL-40413-SP	4	SPS400452	4.8125"	4.19"	0.09	----
CSL-40414-SP	4	SPS400456	4.8750"	4.19"	0.09	----
CSL-40415-SP	4	SPS400460	4.9375"	4.19"	0.09	----
CSL-40500-SP	4	SPS400500	5.0000"	4.19"	0.09	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-40410S-SP	4	SPS400440S	4.6250"	3.31"	0.09	----
CSL-40411S-SP	4	SPS400444S	4.6875"	3.31"	0.09	----
CSL-40412S-SP	4	SPS400448S	4.7500"	3.31"	0.09	----
CSL-40413S-SP	4	SPS400452S	4.8125"	3.31"	0.09	----
CSL-40414S-SP	4	SPS400456S	4.9375"	3.31"	0.09	----
CSL-40500S-SP	4	SPS400500S	5.0000"	3.31"	0.09	----

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-60604-SP	6	SPS600616	6.2500"	5.67"	0.12	----
CSL-60606-SP	6	SPS600624	6.3750"	5.67"	0.12	----
CSL-60608-SP	6	SPS600632	6.5000"	5.67"	0.12	----
CSL-60610-SP	6	SPS600640	6.6250"	5.67"	0.12	----
CSL-60612-SP	6	SPS600648	6.7500"	5.67"	0.12	----
CSL-60614-SP	6	SPS600656	6.8750"	5.67"	0.12	----
CSL-60700-SP	6	SPS600700	7.0000"	5.67"	0.12	----
CSL-60702-SP	6	SPS600708	7.1250"	5.67"	0.12	----
CSL-60704-SP	6	SPS600716	7.2500"	5.67"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-80812-SP	8	SPS800848	8.7500"	6.50"	0.12	----
CSL-80900-SP	8	SPS800900	9.0000"	6.50"	0.12	----
CSL-80904-SP	8	SPS800916	9.2500"	6.50"	0.12	----
CSL-80908-SP	8	SPS800932	9.5000"	6.50"	0.12	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-100108-SP	10	SPS100132	10.5000"	7.25"	0.12	
CSL-100114-SP	10	SPS100156	10.8750"	7.25"	0.12	

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"



CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-05100S-SS304	1/2	SSS050100S	1.000"	0.91"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08104-SS304	3/4	SSS075116	1.2500"	2.14"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-08104S-SS304	3/4	SSS075116S	1.2500"	1.10"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10108-SS304	1	SSS100132	1.5000"	2.29"	0.06	----
CSL-10110-SS304	1	SSS100140	1.6250"	2.29"	0.06	----
CSL-10112-SS304	1	SSS100148	1.7500"	2.29"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-10109S-SS304	1	SSS100136S	1.5625"	1.26"	0.06	----
CSL-10110S-SS304	1	SSS100140S	1.6250"	1.26"	0.06	----

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13114-SS304	1-1/4	SSS125156	1.8750"	2.32"	0.06	

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-13113S-SS304	1-1/4	SSS125152S	1.8125"	1.26"	0.06	

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-15201-SS304	1-1/2	SSS150204	2.0625"	2.36"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-20206-SS304	2	SSS200224	2.3750"	2.79"	0.06	----
CSL-20207-SS304	2	SSS200228	2.4375"	2.79"	0.06	----
CSL-20208-SS304	2	SSS200232	2.5000"	2.79"	0.06	----
CSL-20209-SS304	2	SSS200236	2.5625"	2.79"	0.06	----
CSL-20210-SS304	2	SSS200240	2.6250"	2.79"	0.06	----
CSL-20211-SS304	2	SSS200244	2.6875"	2.79"	0.06	----
CSL-20212-SS304	2	SSS200248	2.7500"	2.79"	0.06	----
CSL-20214-SS304	2	SSS200256	2.8750"	2.79"	0.06	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	
CSL-30309-SS304	3	SSS300336	3.5625"	3.94"	0.10	----
CSL-30310-SS304	3	SSS300340	3.6250"	3.94"	0.10	----
CSL-30311-SS304	3	SSS300344	3.6875"	3.94"	0.10	----
CSL-30312-SS304	3	SSS300348	3.7500"	3.94"	0.10	----
CSL-30313-SS304	3	SSS300352	3.8125"	3.94"	0.10	----
CSL-30314-SS304	3	SSS300356	3.8750"	3.94"	0.10	----

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

HOSE CLAMPS





WORM GEAR



QUICK RELEASE





MEGA & MAXI T-BOLT CLAMPS



SPRING LOADED T-BOLT





CONSTANT TORQUE & V-BAND



DOUBLE BOLT CLAMP





SPIRAL CLAMP
MAXI CLAMP



MUFFLER & EXHAUST



1 EAR, 2 EAR, GAPLESS



HAMMERLOCK & PUNCH-LOK



TOOLS



NON-PERFORATED OR LINED BAND MARINE CLAMPS



RUBBER LINED



HOSE FERRULES

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

WORM GEAR CLAMPS

MINIATURE CLAMPS - 5/16" BAND



300 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- Carbon Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band with Carbon Steel Housing and Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
3000004	7/32"	5/8"	200/2400	----
300005	7/16"	11/16"	200/2400	----
3000006	5/16"	7/8"	200/2400	----
3000008	7/16"	1"	200/1200	----
300010	1/2"	1-1/16"	200/1200	----
300012	9/16"	1-1/4"	200/1200	----
300016	11/16"	1-1/2"	200/1200	----
3000020	7/8"	1-3/4"	200/1200	----

1/2" BAND CLAMPS



600 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- Carbon Steel Housing

Applications: A general purpose clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

Stainless Steel band with Carbon Steel Housing and Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	
		MIN.	MAX.		
600006	6	3/8"	7/8"	100/600	----
600008	8	7/16"	1"	100/600	----
600010	10	9/16"	1-1/16"	100/600	----
600012	12	9/16"	1-1/4"	100/600	----
600016	16	11/16"	1-1/2"	100/600	----
600020	20	3/4"	1-3/4"	100/300	----
600024	24	1-1/16"	2"	100/300	----
600028	28	1-5/16"	2-1/4"	100/300	----
600032	32	1-9/16"	2-1/2"	100/300	----
600036	36	1-13/16"	2-3/4"	50/200	----
600040	40	2-1/16"	3"	50/200	----
600044	44	2-5/16"	3-1/4"	50/200	----
600048	48	2-9/16"	3-1/2"	50/200	----
600052	52	2-13/16"	3-3/4"	25/100	----
600056	56	3-1/16"	4"	25/100	----
600060	60	3-5/16"	4-1/4"	25/100	----
600064	64	2-1/2"	4-1/2"	25/100	----
600072	72	3"	5"	25/100	----
600080	80	3-1/2"	5-1/2"	10/100	----
600088	88	4"	6"	10/100	----
600096	96	4-1/2"	6-1/2"	10/100	----
600104	104	5"	7"	10/100	----

Only I can change my life. No one can do it for me.- Carol Burnett

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325 & 611 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND



325 Series
- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band and housing with Carbon Steel Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
325004	7/32"	5/8"	200/2400	----
325005	7/16"	11/16"	200/2400	----
325006	5/16"	7/8"	200/2400	----
325008	7/16"	1"	200/1200	----
325010	1/2"	1-1/16"	200/1200	----
325012	9/16"	1-1/4"	200/1200	----
325016	11/16"	1-1/2"	200/1200	----
325020	7/8"	1-3/4"	200/1200	----

1/2" BAND CLAMPS



611 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: The perfect clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

Stainless Steel band and housing with Carbon Steel Screw

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE	
		MIN.	MAX.		
611006	6	3/8"	7/8"	100/600	----
611008	8	7/16"	1"	100/600	----
611010	10	9/16"	1-1/16"	100/600	----
611012	12	9/16"	1-1/4"	100/600	----
611016	16	11/16"	1-1/2"	100/600	----
611020	20	3/4"	1-3/4"	100/300	----
611024	24	1-1/16"	2"	100/300	----
611028	28	1-5/16"	2-1/4"	100/300	----
611032	32	1-9/16"	2-1/2"	100/300	----
611036	36	1-13/16"	2-3/4"	50/200	----
611040	40	2-1/16"	3"	50/200	----
611044	44	2-5/16"	3-1/4"	50/200	----
611048	48	2-9/16"	3-1/2"	50/200	----
611052	52	2-13/16"	3-3/4"	25/100	----
611056	56	3-1/16"	4"	25/100	----
611060	60	3-5/16"	4-1/4"	25/100	----
611064	64	2-1/2"	4-1/2"	25/100	----
611072	72	3"	5"	25/100	----
611080	80	3-1/2"	5-1/2"	10/100	----
611088	88	4"	6"	10/100	----
611096	96	4-1/2"	6-1/2"	10/100	----
611104	104	5"	7"	10/100	----
611116	116	5-3/4"	7-3/4"	100/100	----
611128	128	6-1/2"	8-1/2"	100/100	----
611152	152	2"	10"	100/100	----
611164	164	1-3/4"	10-3/4"	100/100	----
611176	176	9-1/4"	11-1/4"	100/100	----
611188	188	2-1/16"	12-1/4"	100/100	----
611200	200	11"	13"	100/100	----
611212	212	11-3/4"	13-3/4"	100/100	----
611224	224	12-1/2"	14-1/2"	100/100	----
611248	248	10-3/4"	16"	100/100	----
611270	270	15-3/8"	17-3/8"	100/100	----
611312	312	18"	20"	100/100	----
611332	332	19-1/8"	21-1/4"	100/100	----
611390	390	22-7/8"	24-7/8"	100/100	----

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350 & 620 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND



350 Series
- 1/4" Hex Slotted 410 Stainless Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 stainless Steel Housing
- 6mm thick

All Stainless Steel
5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
350004	7/32"	5/8"	200/2400	----
350005	7/16"	11/16"	200/2400	----
350006	5/16"	7/8"	200/2400	----
350008	7/16"	1"	200/1200	----
350010	1/2"	1-1/16"	200/1200	----
350012	9/16"	1-1/4"	200/1200	----
350016	11/16"	1-1/2"	200/1200	----
350020	7/8"	1-3/4"	200/1200	----

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)



620 Series
- 5/16" Hex Slotted 305 Stainless Steel Screw
- 1/2" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

- 60mm Thickness
- Use for underground and other high corrosive applications.
- For a sure grip application.
- Especially suited to industrial applications

All Stainless Steel
1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BOX/CASE	
		MIN.	MAX.		
620006	6	3/8"	7/8"	100/600	----
620008	8	7/16"	1"	100/600	----
620010	10	9/16"	1-1/16"	100/600	----
620012	12	9/16"	1-1/4"	100/600	----
620016	16	11/16"	1-1/2"	100/600	----
620020	20	3/4"	1-3/4"	100/300	----
620024	24	1-1/16"	2"	100/300	----
620028	28	1-5/16"	2-1/4"	100/300	----
620032	32	1-9/16"	2-1/2"	100/300	----
620036	36	1-13/16"	2-3/4"	50/200	----
620040	40	2-1/16"	3"	50/200	----
620044	44	2-5/16"	3-1/4"	50/200	----
620048	48	2-9/16"	3-1/2"	50/200	----
620052	52	2-13/16"	3-3/4"	25/100	----
620056	56	3-1/16"	4"	25/100	----
620060	60	3-5/16"	4-1/4"	25/100	----
620064	64	2-1/2"	4-1/2"	25/100	----
620072	72	3"	5"	25/100	----
620080	80	3-1/2"	5-1/2"	10/100	----
620088	88	4"	6"	10/100	----
620096	96	4-1/2"	6-1/2"	10/100	----
620104	104	5"	7"	10/100	----
620116	116	5-3/4"	7-3/4"	100/100	----
620128	128	6-1/2"	8-1/2"	100/100	----
620152	152	2"	10"	100/100	----
620164	164	1-3/4"	10-3/4"	100/100	----
620176	176	9-1/4"	11-1/4"	100/100	----
620188	188	9.9"	12-1/4"	100/100	----
620200	200	11"	13"	100/100	----
620212	212	11-3/4"	13-3/4"	100/100	----
620224	224	12-1/2"	14-1/2"	100/100	----
620248	248	10-3/4"	16"	100/100	----
620270	270	15-3/8"	17-3/8"	100/100	----
620312	312	18"	20"	100/100	----
620332	332	19-1/8"	21-1/4"	100/100	----
620390	390	22-7/8"	24-7/8"	100/100	----

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#316 MARINE WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND



All #316 SS for Marine Environments

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	
	MIN.	MAX.		
350004SS	7/32"	5/8"	200/2400	----
350005SS	7/16"	11/16"	200/2400	----
350006SS	5/16"	7/8"	200/2400	----
350008SS	7/16"	1"	200/1200	----
350010SS	1/2"	1-1/16"	200/1200	----
350012SS	9/16"	1-1/4"	200/1200	----
350016SS	11/16"	1-1/2"	200/1200	----
350020SS	7/8"	1-3/4"	200/1200	----

350SS Series

- 1/4" Hex Slotted 316 Stainless Steel Screw
- 316 Stainless Steel Band
- 8mm wide
- 60 mm thick
- 316 stainless Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)



All #316 SS for Marine Environments

1/2" band, 5/16" screw

ALL 316SS PART #	#	DIA. RANGE		BOX/CASE	
		MIN.	MAX.		
620006SS	6	3/8"	7/8"	100/600	----
620008SS	8	7/16"	1"	100/600	----
620010SS	10	9/16"	1-1/16"	100/600	----
620012SS	12	9/16"	1-1/4"	100/600	----
620016SS	16	11/16"	1-1/2"	100/600	----
620020SS	20	3/4"	1-3/4"	100/300	----
620024SS	24	1-1/16"	2"	100/300	----
620028SS	28	1-5/16"	2-1/4"	100/300	----
620032SS	32	1-9/16"	2-1/2"	100/300	----
620036SS	36	1-13/16"	2-3/4"	50/200	----
620040SS	40	2-1/16"	3"	50/200	----
620044SS	44	2-5/16"	3-1/4"	50/200	----
620048SS	48	2-9/16"	3-1/2"	50/200	----
620052SS	52	2-13/16"	3-3/4"	25/100	----
620056SS	56	3-1/16"	4"	25/100	----
620060SS	60	3-5/16"	4-1/4"	25/100	----
620064SS	64	2-1/2"	4-1/2"	25/100	----
620072SS	72	3"	5"	25/100	----

620SS Series

- 5/16" Hex Slotted 316 Stainless Steel Screw
- 1/2" Wide 316 Stainless Steel Band
- 316 Stainless Steel Housing

- 60mm Thickness
- Use for marine, underground and other high corrosive applications.

QUICK RELEASE

500/550 SERIES

These clamps feature a unique quick release design between the one piece housing and band allowing for quick and easy installation in restricted or difficult areas.

Applications: Quick release action permits easy installation in applications where clamp must be opened to be applied. Quick release clamps are used extensively in the telecommunications industry on cable enclosures where open air application demands durability.



Open/Close design allows easy installation.



500 Series
- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

550 Series
- 5/16" Hex Slotted 410 Stainless Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

PART #		#	DIA. RANGE		PART #	
			MIN.	MAX.		
500012		12	1/2"	1-1/4"	550012	----
500020		20	3/4"	1-3/4"	550020	----
500028		28	1"	2-1/4"	550028	----
500036		36	1"	2-3/4"	550036	----
500048		48	1-1/2"	3-1/2"	550048	----
500056		56	1"	4"	550056	----
500072		72	2"	5"	550072	----
500088		88	2-1/16"	6"	550088	----
500104		104	1-3/4"	7"	550104	----
500128		128	1-3/4"	8-9/16"	550128	----
500152		152	2"	10"	550152	----
500188		188	2-1/16"	12-5/16"	550188	----
500216		216	10-3/16"	14"	550216	----
500248		248	10-3/4"	16"	550248	----
500280		280	14-1/4"	18"	550280	----
		312	14"	20"	550312	----

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T-BOLT CLAMPS

- All designs meet SAE J1508 specifications.
- .025" Band Thickness
- 3/4" Wide Band
- Band Material: 301 Series Stainless Steel
- Bolt Material: 304 Series Stainless Steel
- Nut Material: 304 Series Stainless Steel
- Nuts are Self-locking
- Torque Rating 75 in/lb



Opens 1/16" above and tightens 1/8" smaller
then nominal I.D. for a total of 3/16" range for clamps sizes 150 through 250. Opens 1/16" above and tightens 7/32" smaller then nominal I.D. for clamps sizes 256 through 750.

Purpose: To provide a quick, yet effective means of clamping a variety of fittings to a wide range of hose. T-Bolts can be applied with a standard 7/16" socket wrench. They provide 3600 sealing surface by using a shoe or formed bridge.

Services: The T-Bolt clamp is a high strength, reliable clamp with numerous applications in both the commercial and industrial markets including hose and duct-work connections for air, oil, water, other types of low pressure fluid lines, engine air intake, exhaust, hose and filters.

ALL STAINLESS STEEL

NOMINAL SIZE	O.D. RANGE		PART#	
	FROM:	TO:		
1-1/4	1-5/32"	1-15/32"	840131	----
1-1/2	1-3/8"	1-9/16"	840150	----
1-3/4	1-5/8"	1-13/16"	840175	----
1-7/8	1-3/4"	1-15/16"	840188	----
2	1-7/8"	2-1/16"	840200	----
2-1/4	2-1/8"	2-5/16"	840225	----
2-3/8	2-1/4"	2-7/16"	840238	----
2-1/2	2-3/8"	2-9/16"	840250	----
2-9/16	2-11/32"	2-5/8"	840256	----
2-5/8	2-13/32"	2-11/16"	840263	----
2-3/4	2-17/32"	2-13/16"	840275	----
2-7/8	2-21/32"	2-15/16"	840288	----
3	2-25/32"	3-1/16"	840300	----
3-1/8	2-29/32"	3-3/16"	840312	----
3-1/4	3-1/32"	3-5/16"	840325	----
3-1/2	3-9/32"	3-9/16"	840350	----
3-3/4	3-17/32"	3-13/16"	840375	----
3-53/64	3-19/32"	3-7/8"	840382	----
4	3-25/32"	4-1/16"	840400	----
4-1/4	4-1/32"	4-5/16"	840425	----
4-1/2	4-9/32"	4-9/16"	840450	----
4-3/4	4-17/32"	4-13/16"	840475	----
5	4-25/32"	5-1/16"	840500	----
5-1/4	5-1/32"	5-5/16"	840525	----
5-1/2	5-9/32"	5-9/16"	840550	----
5-3/4	5-17/32"	5-13/16"	840575	----
6	5-25/32"	6-1/16"	840600	----
6-1/4	6-1/32"	6-5/16"	840625	----
6-1/2	6-9/32"	6-9/16"	840650	----
6-3/4	6-17/32"	6-13/16"	840675	----
7	6-25/32"	7-1/16"	840700	----
7-1/2	7-9/32"	7-9/16"	840750	----
8	7-25/32"	8-1/16"	840800	----
8-1/4	8-9/32"	8-9/16"	840850	----
8-7/8	8-21/32"	8-15/16"	840888	----
10-7/8	10-21/32"	10-15/16"	8401088	----

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MEGA CLAMPS

Rugged heavy duty wide band clamps for use in medium duty air and water, general industrial, automotive, food and agricultural applications.

MEGAKLAMP



IMPORT

Megaklamp Series
Clamp sizes for hose O.D. from 17 mm to 252 mm
Yellow zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 1.7 mm depending upon clamp size
Band width from 18 mm to 26 mm depending upon clamp size
Bolt size from 5 mm to 10 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
MKL-019-SP	17-19	0.67	0.75	1.02	----
MKL-022-SP	20-22	0.79	0.87	1.02	----
MKL-025-SP	23-25	0.87	0.98	1.02	----
MKL-028-SP	26-28	1.02	1.10	1.02	----
MKL-031-SP	29-31	1.14	1.22	1.02	----
MKL-035-SP	32-35	1.26	1.38	1.02	----
MKL-039-SP	36-39	1.42	1.54	1.02	----
MKL-043-SP	40-43	1.57	1.69	0.87	----
MKL-047-SP	44-47	1.73	1.85	0.87	----
MKL-051-SP	48-51	1.89	2.01	0.87	----
MKL-055-SP	52-55	2.05	2.17	0.87	----
MKL-059-SP	56-59	2.20	2.32	0.87	----
MKL-063-SP	60-63	2.36	2.48	0.87	----
MKL-067-SP	64-67	2.52	2.64	0.94	----
MKL-073-SP	68-73	2.68	2.87	0.94	----
MKL-079-SP	74-79	2.91	3.11	0.94	----
MKL-085-SP	80-85	3.15	3.35	0.94	----
MKL-091-SP	86-91	3.39	3.58	0.94	----
MKL-097-SP	92-97	3.62	3.82	0.94	----
MKL-103-SP	98-103	3.86	4.06	0.94	----
MKL-112-SP	104-112	4.09	4.41	0.94	----
MKL-121-SP	113-121	4.45	4.76	0.94	----
MKL-130-SP	122-130	4.80	5.12	0.94	----
MKL-139-SP	131-139	5.16	5.47	1.02	----
MKL-148-SP	140-148	5.51	5.83	1.02	----
MKL-161-SP	149-161	5.87	6.34	1.02	----
MKL-174-SP	162-174	6.38	6.85	1.02	----
MKL-187-SP	175-187	6.89	7.36	1.02	----
MKL-200-SP	188-200	7.40	7.87	1.02	----
MKL-213-SP	201-213	7.91	8.39	1.02	----
MKL-226-SP	214-226	8.43	8.90	1.02	----
MKL-239-SP	227-239	8.94	9.41	1.02	----

M6 MAXI CLAMP LIGHT



IMPORT

M6 Maxiclamp Series
Clamp sizes for hose O.D. from 23 mm to 43 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
Band gauge from 0.6 mm to 0.8 mm depending upon clamp size
Band width from 18 mm to 20 mm depending upon clamp size
Bolt size from 5 mm to 6 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M6-23	23-25	0.87	1.01	0.71	----
M6-26	26-28	1.02	1.13	0.71	----
M6-29	29-31	1.14	1.25	0.79	----
M6-32	32-35	1.26	1.41	0.79	----
M6-36	36-39	1.42	1.56	0.79	----
M6-40	40-43	1.57	1.72	0.79	----

M6 STAINLESS MAXI CLAMP LIGHT

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M6S-23	23-25	0.87	1.01	0.71	----
M6S-26	26-28	1.02	1.13	0.71	----
M6S-29	29-31	1.14	1.25	0.79	----
M6S-32	32-35	1.26	1.41	0.79	----
M6S-36	36-39	1.42	1.56	0.79	----
M6S-40	40-43	1.57	1.72	0.79	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE CLAMPS

HOSE CLAMPS

M8 MAXI CLAMP STANDARD

IMPORT



M8 Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve
8 mm silver zinc plated bolt
Band gauge from 1.2 mm to 1.5 mm depending upon clamp size
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M8-44	44-47	1.73	1.88	0.87	----
M8-48	48-51	1.89	2.04	0.87	----
M8-52	52-55	2.05	2.17	0.87	----
M8-56	56-59	2.20	2.35	0.87	----
M8-60	60-63	2.36	2.51	0.87	----
M8-64	64-67	2.52	2.67	0.87	----
M8-68	68-73	2.68	2.90	0.94	----
M8-74	74-79	2.91	3.14	0.94	----
M8-80	80-85	3.15	3.38	0.94	----
M8-86	86-91	3.39	3.61	0.94	----
M8-92	92-97	3.62	3.85	0.94	----
M8-98	98-103	3.86	4.08	0.94	----
M8-104	104-112	4.09	4.44	0.94	----
M8-113	113-121	4.45	4.79	0.94	----
M8-122	122-130	4.80	5.15	0.94	----

M8 MAXI CLAMP STANDARD



IMPORT

M8S Maxiclamp Series
Clamp sizes for hose O.D. from 44 mm to 130 mm
301 Stainless steel Band/Bridge/Trunnion/Sleeve
8 mm A2-70 Stainless steel bolt
0.8 mm thick band
Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M8S-44	44-47	1.73	1.88	0.87	----
M8S-48	48-51	1.89	2.04	0.87	----
M8S-52	52-55	2.05	2.17	0.87	----
M8S-56	56-59	2.20	2.35	0.87	----
M8S-60	60-63	2.36	2.51	0.87	----
M8S-64	64-67	2.52	2.67	0.87	----
M8S-68	68-73	2.68	2.90	0.94	----
M8S-74	74-79	2.91	3.14	0.94	----
M8S-80	80-85	3.15	3.38	0.94	----
M8S-86	86-91	3.39	3.61	0.94	----
M8S-92	92-97	3.62	3.85	0.94	----
M8S-98	98-103	3.86	4.08	0.94	----
M8S-104	104-112	4.09	4.44	0.94	----
M8S-113	113-121	4.45	4.79	0.94	----
M8S-122	122-130	4.80	5.15	0.94	----
M8S-131	131-139	5.16	5.50	1.02	----
M8S-140	140-148	5.51	5.86	1.02	----
M8S-149	149-161	5.87	6.37	1.02	----
M8S-162	162-174	6.38	6.88	1.02	----

M10 MAXI CLAMP HEAVY

IMPORT



M10S Maxiclamp Series
Select sizes available
301 Stainless steel Band/Bridge/Trunnion/Sleeve
10 mm A2-70 Stainless steel bolt
1.7 mm thick x 26 mm wide band

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH	
M10-131	131-139	5.16	5.50	1.02	----
M10-140	140-148	5.51	5.86	1.02	----
M10-149	149-161	5.87	6.37	1.02	----
M10-162	162-174	6.38	6.88	1.02	----
M10-175	175-187	6.89	7.39	1.02	----
M10-188	188-200	7.40	7.86	1.02	----
M10-201	201-213	7.91	8.42	1.02	----
M10-214	214-226	8.43	8.90	1.02	----
M10-227	227-239	8.94	9.44	1.02	----
M10-240	240-252	9.45	9.92	1.02	----

SPRING LOADED T-BOLT
HOSE CLAMPS

SPRING LOADED T-BOLT HOSE CLAMP

- Per SAE standard J1508 Type "SLTB"
- .025 Band Thickness
- 3/4 (19mm) band width
- Heavy duty springs
- Band Material: 300 stainless
- T-bolt: Carbon steel w/ zinc plating
- Housing (Bridge): 300 Stainless
- Hex nut: Carbon Steel, Nylon insert
- Torque rating: 150 in-lbs (8.5 mm)



Purpose: To provide constant tension performance to compensate for the expansion and contraction when temperatures fluctuate. Provides high strength and a 360° seal. Tighten with a 7/16" wrench or hex nutdriver.

Services: Designed for use in high vibration and large diameter applications common in heavy trucks, industrial machinery, off road equipment, agricultural irrigation and machinery, for air intake and coolant adapter

PART #	SAE #	MIN - MAX	WGT	BOX QTY	
844213	40	2.13 - 2.44	0.170	100	----
844225	44	2.25 - 2.56	0.174	100	----
844238	48	2.38 - 2.69	0.179	100	----
844250	52	2.50 - 2.81	0.181	100	----
844263	56	2.63 - 2.94	0.183	100	----
844275	60	2.75 - 3.06	0.185	100	----
844300	68	3 - 3.31	0.187	100	----
844306	70	3.06 - 3.38	0.190	100	----
844313	72	3.13 - 3.44	0.192	100	----
844325	76	3.25 - 3.56	0.194	100	----
844338	80	3.38 - 3.69	0.196	100	----
844350	84	3.50 - 3.81	0.196	100	----
844356	86	3.56 - 3.88	0.196	100	----
844363	88	3.63 - 3.94	0.198	100	----
844375	92	3.75 - 4.06	0.198	100	----
844406	102	4.06 - 4.38	0.203	100	----
844413	104	4.13 - 4.44	0.209	100	----
844425	108	4.25 - 4.56	0.214	100	----
844456	118	4.56 - 4.88	0.216	100	----
844500	132	5 - 5.31	0.218	100	----
844525	140	5.25 - 5.56	0.220	100	----
844600	164	6 - 6.31	0.223	100	----
844625	172	6.25 - 6.56	0.225	100	----

Automatically adjust diameter for hose expansioin and contraction due to temperature changes.

Always turn a negative situation into a positive situation.

— Michael Jordan

CONSTANT TORQUE HOSE CLAMPS

- All designs meet SAE J1508 specifications type "SLHD"
- .028 Band thickness
- Band material: 304 thickness
- Band width: 9/16" for 45in-lb
  5/8" for 90in-lb
- Band material: 304 stainless
- Housing: 304 stainless steel
- Bridge: 410 stainless steel
- Hex screw: 410 stainless steel



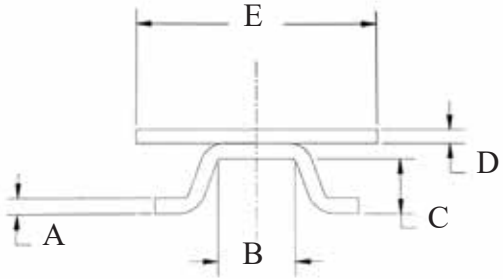
Purpose: To eliminate leaks by automatically incerasing or decreasing the clamps diameter, decreasing the need for retightening. Constant torque clamps have an extended tail on the band to protect soft hose or tube from being cut.

Services: Constant torque clamps are an excellent choice for fluctuating and extreme temperature applications and thermal compensation.

PART #	CLAMPING RANGE	BAND WIDTH	TORQUE	SCREW SIZE	WGT	BOX QTY	
842010	9/16" - 1 1/16"	9/16"	72 in-lb	5/16"	0.106	100	----
842012	11/16" - 1 1/4"	9/16"	72 in-lb	5/16"	0.108	100	----
842016	13/16" - 1 1/2"	9/16"	72 in-lb	5/16"	0.112	100	----
842020	13/16" - 1 3/4"	9/16"	72 in-lb	5/16"	0.119	100	----
842024	1 1/16" - 2"	9/16"	72 in-lb	5/16"	0.121	100	----
842200	1 1/4" - 2 1/8"	5/8"	130 in-lb High	3/8"	0.207	100	----
842250	1 3/4" - 2 5/8"	5/8"	130 in-lb High	3/8"	0.216	100	----
842300	2 1/4" - 3 1/8"	5/8"	130 in-lb High	3/8"	0.220	100	----
842350	2 3/4" - 3 5/8"	5/8"	130 in-lb High	3/8"	0.225	100	----
842400	3 1/4" - 4 1/8"	5/8"	130 in-lb High	3/8"	0.231	100	----
842450	3 3/4" - 4 5/8"	5/8"	130 in-lb High	3/8"	0.238	100	----
842500	4 1/4" - 5 1/8"	5/8"	130 in-lb High	3/8"	0.256	100	----

V-BAND HOSE CLAMPS

- Band thickness: see chart
- Band width: see chart
- Band material: 300 stainless
- Trunnion: 300 stainless
- 1/4" T-bolt: 300 stainless





Purpose: to provide a fast, secure cupling for connecting flanged joints.

Services: V-Band clamps feature high strength and positive sealing integrity for applications including: heavy duty diesel engine exhaust and turbochargers, filter housings, emissions and general industrial applications.

PART#	NOMINAL DIAMETER	V-INSERT SECTIONS			BANDS		WGT	BOX QTY	
		A	B	C	D	E			
843321	3.21	0.050	0.262	0.141	0.035	0.750	0.525	100	----
843382	3.82	0.077	0.207	0.281	0.040	0.875	0.531	100	----
843388	3.88	0.050	0.400	0.281	0.040	0.875	0.536	100	----
843450	4.50	0.077	0.207	0.281	0.040	0.875	0.547	100	----
843461	4.61	0.050	0.156	0.281	0.035	0.750	0.549	100	----
843475	4.75	0.050	0.400	0.281	0.040	0.875	0.553	100	----
843525	5.25	0.050	0.262	0.141	0.035	0.750	0.567	100	----
843588	5.88	0.050	0.400	0.281	0.040	0.875	0.575	100	----

DOUBLE BOLT CLAMPS



IMPORT

DBC Series

Rugged, heavy duty two bolt clamps with saddles
Zinc plated ductile iron clamps and saddles
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	
DBC-40-DP	1-5/16	1-5/16" - 1-19/32"	20	----
DBC-60-DP	1-7/8	1-7/8" - 2-3/8"	25	----
DBC-76-DP*	2-3/8	2-3/8" - 3-1/16"	25	----
DBC-94-DP*	3-1/2	3-1/2" - 3-11/16"	40	----
DBC-400-DP*	3-1/2	3-1/2" - 4"	40	----
DBC-431-DP	3-13/16	3-13/16" - 4-1/16"	40	----
DBC-463-DP	4-1/16	4-1/16" - 4-7/16"	40	----
DBC-525-DP*	4-3/16	4-3/16" - 5"	60	----
DBC-550-DP*	5	5" - 5-1/2"	60	----
DBC-600-DP*	5-1/2	5-1/2" - 5-15/16"	60	----
DBC-639-DP	5-11/16	5-11/16" - 5-15/16"	60	----
DBC-675-DP*	6-1/8	6-1/8" - 6-7/8"	60	----
DBC-769-DP*	6-15/16	6-15/16" - 7-5/8"	60	----
DBC-818-DP	7-11/16	7-11/16" - 8-3/16"	125	----
DBC-875-DP*	8-1/4	8-1/4" -8-7/8"	125	----
DBC-988-DP*	8-15/16	8-15/16" - 9-7/8"	125	----
DBC-1125-DP*	9-15/16	9-15/16" - 11-3/8"	125	----
DBC-1275-DP*	11-3/16	11-3/16" - 13"	125	----
DBC-1360-DP	12-3/16	12-3/16" - 14"	200	----



R88 Series IMPORT

Rugged, heavy duty two bolt clamps without saddles
Zinc plated ductile iron clamp
Zinc plated carbon steel bolt and nuts

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	
R88DB-12-DP*	1-1/8	1-1/8" - 1-1/4"	15	----
R88DB-16-DP*	1-3/8	1-3/8" - 1-1/2"	20	----
R88DB-20-DP*	1-5/8	1-5/8" - 1-3/4"	25	----
R88DB-24-DP*	2	2" - 2-1/8"	25	----
R88DB-32-DP*	2-1/4	2-1/4" - 2-3/8"	30	----

HOSE CLAMPS
HOSE CLAMPS

SC SPIRAL CLAMP SERIES

Spiral wound clamps specifically designed for use
on heavily corrugated suction hoses.
Available in left hand (counter clock-wise) and right hand (clockwise) spiral.
Zinc plated steel construction.

IMPORT





PART #	LIST	HOSE ID	O.D. RANGE MM	PART #	
SC-200R-SP*	----	2"	51 - 56	SC-200L-SP	----
SC-250R-SP	----	2-1/2"	61 - 76	SC-250L-SP	----
SC-300R-SP*	----	3"	76 - 90	SC-300L-SP	----
SC-400R-SP*	----	4"	106 - 118	SC-400L-SP	----
SC-500R-SP	----	5"	129 - 140	SC-500L-SP	----
SC-600R-SP*	----	6"	151 - 170	SC-600L-SP	----
SC-800R-SP	----	8"	198 - 217	SC-800L-SP	----
SC-1000R-SP	----	10"	274 - 290	SC-1000L-SP	----
SC-1200R-SP	----	12"	304 - 329	SC-1200L-SP	----



IMPORT

M10DC MAXICLAMP SERIES

Clamp sizes for hose O.D. from 131 mm to 252 mm
Silver (clear) zinc plated steel Band/ Bridge/Trunnion/Sleeve/Bolt
10 mm silver zinc plated steel bolts
1.7 mm thick x 30 mm wide band
Suggested installation torque 30 Nm (22 Ft lbs)
Minimum breaking torque 40 Nm (29.5 ft.lbs.)

PART #	SIZE MM	RANGE	
M10DC-86	86 - 91	3.38" - 3.58"	----
M10DC-92	92 - 97	3.62" - 3.82"	----
M10DC-104	104 - 112	4.09" - 4.41"	----
M10DC-113	113 - 121	4.45" - 4.76"	----
M10DC-122	122 - 130	4.80" - 5.12"	----
M10DC-131	131 - 139	5.16" - 5.47"	----
M10DC-140	140 - 148	5.51" - 5.83"	----
M10DC-149	149 - 161	5.87" - 6.34'	----
M10DC-162	162 - 174	6.38" - 6.85"	----
M10DC-175	175 - 187	6.89" - 7.36"	----
M10DC-188	188 - 200	7.40" - 7.87"	----
M10DC-200	200 - 220	7.87" - 8.66"	----
M10DC-220	220 - 240	8.66" - 9.45"	----
M10DC-240	240 - 260	9.45" - 10.24"	----
M10DC-260	260 - 280	10.24" - 11.02"	----
M10DC-280	280 - 300	11.02" - 11.81"	----
M10DC-300	300 - 325	11.81" - 12.80"	----
M10DC-325	325 - 350	12.80" - 13.78"	----
M10DC-350	350 - 375	13.78" - 14.76"	----
M10DC-375	375 - 400	14.76" - 15.75"	----
M10DC-400	400 - 425	15.75" - 16.73"	----
M10DC-425	425 - 450	17.73" - 17.72"	----
M10DC-450	450 - 475	17.72" - 18.70"	----

MUFFLER CLAMPS

Muffler Clamps are designed with elongated and tapered holes that pulls the legs around the pipe as the nuts tighten, making a tight seal. Other clamps legs do not wrap around the pipe, they stay straight and the clamp only connects at two points.

- Carbon steel band, housing and bridge
- All muffler clamps are zinc plated for superior corrosion resistance
- Heavy duty U-Bolt and band construction
- 3/8 U-bolt
- Base 2.4mm

SADDLE



PART #	SIZE	WGT	BOX QTY	
841175	1-3/4"	0.335	50	----
841200	2"	0.410	50	----
841250	2-1/2"	0.448	50	----
841300	3"	0.582	50	----
841350	3-1/2"	0.741	50	----
841400	4"	0.847	25	----
841450	4-1/2"	1.023	25	----
841500	5"	1.067	25	----

FLAT BAND



PART #	SIZE	WGT	BOX QTY	
841004	4"	0.847	25	----
841005	5"	1.093	25	----

GUILLOTINE - PROVIDES A COMPLETE 360° HEAVY DUTY SEAL



PART #	SIZE	WGT	BOX QTY	
841040	4"	0.820	25	----
841045	4-1/2"	0.847	25	----
841050	5"	0.988	25	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

EXHAUST CLAMPS

Complete with:
- One metal band - 76mm width
- One spacer
- Two bolts
- Two reaction blocks
- Individually boxed

- Pre-attached hardware for easy and accurate installation.

- Conforms to pipe and flex tubing to create the best seal available without distorting any pipes.

ALUMINIZED STEEL BUTT CLAMPS

- .7mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
845200	2"	0.970	50	----
845300	3"	1.058	50	----
845350	3.50"	1.102	50	----
845400	4"	1.146	50	----
845500	5"	1.235	50	----
845600	6"	1.323	50	----
845-500SS*	5"	1.190	50	----

*Light pattern .5mm band thickness

ALUMINIZED STEEL LAP CLAMPS

- .7mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
846200	2"	0.970	50	----
846250	2.50"	1.014	50	----
846275	2.75"	1.036	50	----
846300	3"	1.058	50	----
846350	3.50"	1.102	50	----
846400	4"	1.146	50	----
846500	5"	1.235	50	----

STAINLESS STEEL LAP CLAMPS

- .5mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
847200	2"	0.926	50	----
847250	2.50"	0.970	50	----
847275	2.75"	0.992	50	----
847300	3"	1.014	50	----
847350	3.50"	1.058	50	----
847400	4"	1.102	50	----
847500	5"	1.190	50	----
847600	6"	1.279	50	----

STAINLESS STEEL EASY-FORM CLAMPS

- .5mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
848200	2"	0.926	50	----
848225	2.25"	0.948	50	----
848250	2.50"	0.970	50	----
848275	2.75"	0.992	50	----
848300	3"	1.014	50	----
848350	3.50"	1.058	50	----
848400	4"	1.102	50	----
848500	5"	1.190	50	----
848600	6"	1.279	50	----
848700	7"	1.367	50	----

WARNING: This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CARBON STEEL 1-EAR CLAMPS

1-Ear Clamps are intended for low pressure applications such as automotive (not fuel lines), appliances, industrial machinery, underground irrigation systems and beverage dispensing equipment. They are specifically designed for mass production applications where inexpensive clamps are needed.

Pressure:
As a guideline, 1-Ear Clamps have held
30 bar - 441 psi.
This was done using a static water pressure test.

- 100 PER BAG



Material:
Hot dipped galvanized carbon steel band - G90

PART #	REF#	NOMINAL SIZE	INCHES		
			CLOSE	OPEN	
1050000	105	3/8"	0.350	0.414	----
1050001	113	7/16"	0.381	0.444	----
1050002	123	15/32"	0.394	0.486	----
1050003	133	1/2"	0.453	0.524	----
1050006	140	35/64"	0.472	0.551	----
1050007	145	9/16"	0.496	0.571	----
1050008	157	5/8"	0.543	0.618	----
1050009	170	11/16"	0.594	0.669	----
1050010	185	23/32"	0.618	0.728	----
1050011	198	3/4"	0.669	0.779	----
1050012	210	13/16"	0.716	0.827	----
1050013	226	7/8"	0.779	0.890	----
1050014	241	15/16"	0.839	0.949	----
1050015	256	1"	0.898	1.008	----
1050016	271	1-1/16"	0.945	1.067	----
1050017	286	1-1/8"	1.004	1.126	----
1050018	301	1-3/16"	1.063	1.185	----
1050020	331	1-5/16"	1.181	1.303	----
1050021	346	1-3/8"	1.240	1.362	----
1050023	376	1-15/32"	1.358	1.480	----
1050025	396	1-9/16"	1.437	1.559	----
1050026	410	1-5/8"	1.492	1.614	----
1050029	455	1-3/4"	1.669	1.791	----
1050030	470	1-16/16"	1.728	1.850	----
1050032	500	1-15/16"	1.846	1.968	----
1050033	515	2"	1.905	2.028	----

The art of communication is the language of leadership. - James Humes

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

EAR CLAMPS

2-EAR PINCH CLAMPS

Robust, durable one-piece design offers positive, tamper resistant seal for air and fluid media lines smooth edges prevent damage to hose designed for one time use only

CIRCLE CLAMP 2 EAR

White zinc plated carbon steel



PART #	SIZE	CLOSED	OPEN	
CC-1113	1/2	0.433	0.512	----
CC-1315	9/16	0.512	0.591	----
CC-1517	19/32	0.591	0.669	----
CC-1518	5/8	0.591	0.709	----
CC-1720	3/4	0.669	0.787	----
CC-2023	7/8	0.787	0.906	----
CC-2225	15/16	0.866	0.984	----
CC-2327	1	0.906	1.063	----
CC-2528	1-1/16	0.984	1.102	----
CC-2731	1-1/8	1.063	1.220	----
CC-3134	1-5/16	1.220	1.339	----
CC-3437	1-7/16	1.339	1.457	----
CC-3740	1-1/2	1.457	1.575	----

GAPLESS EAR CLAMPS

Features



- Assured clamping seal
- For low durometer and/ or thin-walled hose/ tubing
- Perfect for silicon, vinyl, polyurethane or other high tech materials used in all industries.
- Once installed, smooth inner band circumference prevents damage to the hose while the unique tongue-in-groove design provides a 360° seal
- There are no steps or gaps inside clamp
  Material
  - Stainless steel tubing UNS S30400 or DIN 1.4301
- 100 PER BAG

PART #	NOMINAL SIZE	BAND WIDTH	INCHES CLOSE	INCHES OPEN	
16700001	9/32"	5mm	0.228	0.276	----
16700004	3/8"	5mm	0.307	0.374	----
16700007	7/16"	5mm	0.378	0.445	----
16700010	1/2"	7mm	0.425	0.524	----
16700012	35/64"	7mm	0.453	0.551	----
16700013	9/16"	7mm	0.472	0.571	----
16700016	5/8"	7mm	0.520	0.618	----
16700017	11/16"	7mm	0.571	0.669	----
16700022	3/4"	7mm	0.654	0.780	----
16700024	13/16"	7mm	0.701	0.827	----

HAMMERLOCK CPHL SERIES

Double wrapped galvanized steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.



IMPORT

PART #	SIZE	WIDTH	
CPHL-03	1-3/16"	3/8"	----
CPHL-04	1"	5/8"	----
CPHL-05*	1-1/4"	5/8"	----
CPHL-06	1-1/2"	5/8"	----
CPHL-07*	1-3/4"	5/8"	----
CPHL-08*	2"	5/8"	----
CPHL-09	2-1/4"	5/8"	----
CPHL-10*	2-1/2"	5/8"	----
CPHL-11*	2-3/4"	5/8"	----
CPHL-12	3"	5/8"	----
CPHL-14*	3-1/2"	5/8"	----
CPHL-16*	4"	5/8"	----
CPHL-18	4-1/2"	5/8"	----
CPHL-20*	5"	5/8"	----
CPHL-24*	6"	5/8"	----
CPHL-26	6-1/2"	5/8"	----
CPHL-28*	7"	5/8"	----
CPHL-32	8"	5/8"	----

HAMMERLOCK CPHL SERIES

Double wrapped stainless steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT



PART #	SIZE	WIDTH	
CPHLS-04*	1"	5/8"	----
CPHLS-05*	1-1/4"	5/8"	----
CPHLS-06*	1-1/2"	5/8"	----
CPHLS-07*	1-3/4"	5/8"	----
CPHLS-08*	2"	5/8"	----
CPHLS-09*	2-1/4"	5/8"	----
CPHLS-10*	2-1/2"	5/8"	----
CPHLS-11*	2-3/4"	5/8"	----
CPHLS-12*	3"	5/8"	----
CPHLS-14*	3-1/2"	5/8"	----
CPHLS-16*	4"	5/8"	----
CPHLS-18*	4-1/2"	5/8"	----
CPHLS-20*	5"	5/8"	----
CPHLS-24*	6"	5/8"	----
CPHLS-28*	7"	5/8"	----
CPHLS-32	8"	5/8"	----

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CLAMPING TOOLS
HOSE CLAMPS

MODEL 1098 I STANDARD JAW PINCERS

Domestic

PART #	
OETP-1098	----

Import

PART #	
CCP-1098	----



PART #	
1410118	----

SIDE JAW PINCERS

This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard Pincers.

Domestic



PART #		
1410083	Model 10991	----

TPT TOOLS AND PARTS



PART #	
TPT-1	----

HOSE CRIMPER



HOSE CRIMPER COMES WITH 5 DIES
Die Sizes = 5/8", 37/64", 12/32", 31/64", 11/16"

PART #		
308070	Hose Crimper	----

LOKING TOOL



PART #	
F38	----

Portable hand tool used to apply punch Type 3/8 & 5/8 Clamps

BUCHANAN TYPE



LOKING TOOL



PART #	
F40	----

Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

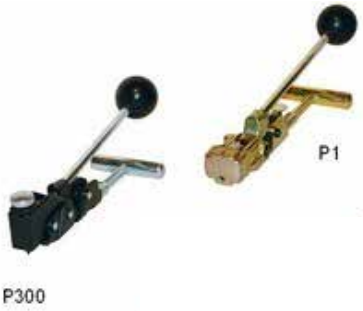
LOKING TOOL



Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

PART #	
F100	----

LOKING TOOL HD



PART #		
P1	HEAVY DUTY	----
P300	IMPORTED VERSION	----

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LINED BAND CLAMPS

HOSE CLAMPS





Features unique one-piece housing, rolled-up band edges and a non-perforated (embossed) band that protects the hose. For added corrosion resistance, the band in the 12mm Standard is made of Aluzinc which gives three times the protection offered by conventional galvanized steel.

- Features high clamping force and high durability torque.
- Stainless: All parts in AISI 304 Stainless Steel.

A non-perforated band with rolled up edges eliminates hose damage while increasing clamping force.
Per SAE standard J1508 Type "FEO"

GENERAL PURPOSE EMBOSSED WORM-GEAR HOSE CLAMPS

- Minimum Qty may apply

Part # Aluzinc		SAE Size	Clamping Range Inches	Clamping Range mm	Bag	Part# 304 SS	
88024	----	8	5/8-1	15-24	1000	89024	----
88028	----	10	3/4-1-1/8	19-28	500	89028	----
88032	----	12	7/8-1-1/4	22-32	500	89032	----
88038	----	16	1-1/16-1-1/2	26-38	500	89038	----
		20	1-1/4-1-3/4	32-44	500	89044	----
88050	----	24	1-1/2-2	38-50	500	89050	----
88056	----	28	1-3/4-2-1/4	44-56	500	89056	----
88065	----	32	2-2-9/16	50-65	200	89065	----
88075	----	40	2-5/16-3	58-75	200	89075	----
88085	----	44	2-11/16-3-3/8	68-85	200	89085	----
88095	----	52	3-3-3/4	77-95	200	89095	----
88112	----	64	3-7/16-4-7/16	87-112	200	89112	----

MINI CLAMPS

Sure seal for small, thin walled hoses. The nut is secured to the clamp, making installation easier and the hexagonal head can be tightened with a socket wrench or screw driver. Bandwidth is 9mm.

PAINTED ALUZINC STANDARD MINI CLAMPS



PART # ALUZINC	CLAMPING RANGE INCHES	CLAMPING RANGE MM	QTY PER BAG	
92010	.36-.41	9-10.5	1000	----
92011	.37-.45	9.5-11.5	900	----
92012	.41-.49	10.5-12.5	800	----
92013	.45-.53	11.5-13.5	800	----
92014	.49-.57	12.5-14.5	700	----
92015	.53-.61	13.5-15.5	600	----
92016	.55-.65	14-16.5	500	----
92017	.59-.69	15-17.5	500	----



MARINE - EMBOSSED

NON-PERFORATED WORM GEAR CLAMPS

- Meets the DIN 3017 Standard
- Replaces the Ultra Clamps 316 stainless steel
- 12mm band widths
- Installation torque 60lbs
- General purpose non perforated band especially suited for most hoses and soft silicone hoses.
- Band edges rolled to protect soft hoses from shearing and fraying
- Common applications include: vehicular, industrial, mechanical engineering, plumbing and marine.
- ROLLED EDGES
- BAND WILL NOT DAMAGE SOFT HOSES

ALL #316 SS MATERIAL

12MM WIDE EMBOSSED ALL 316 BAND CLAMPS

PART #	RANGE OF ADJUST (IN MM)	RANGE OF ADJUST (INCHES)	
96022	12-22	.469-.859	----
96027	16-27	.625-1.06	----
96032	20-32	.787-1.26	----
96040	25-40	.984-1.575	----
96050	35-50	1.26-1.969	----
96060	40-60	1.575-2.362	----
96070	50-70	1.969-2.756	----
96080	60-80	2.362-3.15	----
96090	70-90	2.756-3.543	----
96100	80-100	3.15-3.937	----
96110	90-110	3.543-4.33	----
96120	100-120	3.937-4.724	----
96130	110-130	4.33-5.118	----
96140	120-140	4.72-5.512	----
96150	130-150	5.118-5.906	----
96160	140-160	5.512-6.299	----

MINI CLAMPS

304 SS MINI CLAMPS



PART # 304 SS	CLAMPING RANGE INCHES	CLAMPING RANGE MM	QTY PER BAG	
93008	.30-.34	7.5-8.5	1000	----
93009	.34-.37	8.5-9.5	1000	----
93011	.41-.47	10.5-12	900	----
93013	.49-.55	12.5-14	800	----
93014	.53-.59	13.5-15	700	----
93016	.59-.67	15-17	1000	----
93017	.63-.71	16-18	500	----

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LINED, MINI/ RUBBER LINED

HOSE CLAMPS



RUBBER LINED CLAMPS

Multiple uses for holding cable, wire, pipe and hose. The rubber cushion absorbs vibration, provides protection against scratching and is made of black EPDM type rubber.

Rubber cushion clamps are used in a variety of industries and applications including automotive, truck, hydraulics and pneumatics, ship building, refrigeration, large equipmetnt packaging etc.

Bandwidths and mounting hose sizes vary by diameter and material.

- Aluzinc clamps have a .26 hole diameter
- Stainless Steel .20 diameter

PART # ALUZ-INC	QTY PER BAG		CLAMPING RANGE		PART# 304 SS	QTY PER BAG	
			INCHES	MM			
95300	100	----	1/8	3			
95301	100	----	3/16	5	96301	1000	----
95302	100	----	1/4	6	96302	200	----
95303	100	----	5/16	8	96303	1000	----
95304	100	----	3/8	10	96304	100	----
95305	100	----	7/16	11	96305	1000	----
95306	100	----	1/2	13	96306	100	----
95307	100	----	9/16	14	96307	100	----
95308	100	----	5/8	16	96308	100	----
95309	50	----	11/16	18			
95310	50	----	3/4	19	96310	500	----
95311	50	----	13/16	21			
95312	50	----	7/8	22	96312	500	----
95313	50	----	15/16	24			
95314	50	----	1	25	96314	500	----
95315	50	----	1-1/16	27			
95316	50	----	1-1/8	29	96316	500	----
95317	50	----	1-3/16	30			
95318	50	----	1-1/4	32	96318	500	----
95319	50	----	1-5/16	33			
95320	50	----	1-3/8	35	96320	500	----
95321	50	----	1-7/16	36			
95322	500	----	1-1/2	38	96322	100	----
95326	50	----	1-5/8	41			
95323	25	----	1-3/4	45	96323	500	----
95328	25	----	1-7/8	47			
95324	25	----	2	51			
95325	25	----	2-1/8	54			
95329	25	----	2-3/8	60			
95327	25	----	2-1/2	65			
95330	15	----	2-15/16	74			
95331	10	----	4-5/16	110			



RUBBER CUSHIONED CLAMP, ZINC PLATED STEEL

PART #	MOUNTING DIA	CLAMP DIA	
95402	3/8"	1/4"	----
95404	3/8"	3/8"	----
95406	3/8"	1/2"	----
95408	3/8"	5/8"	----
95410	3/8"	3/4"	----
95414	3/8"	1"	----
95418	3/8"	1 1/4"	----
95422	3/8"	1 1/2"	----
95424	3/8"	2"	----
95427	3/8"	2 1/2"	----
95432	3/8"	3"	----
95433	3/8"	4"	----



GALVANIZED STEEL VINYL COATED CLAMP

PART #	MOUNTING DIA	CLAMP DIA	
95504	1/4"	3/8"	----
95506	1/4"	1/2"	----
95508	1/4"	5/8"	----
95510	1/4"	3/4"	----
95512	1/4"	7/8"	----
95514	1/4"	1"	----
95516	1/4"	1 1/8"	----
95518	1/4"	1 1/4"	----
95522	1/4"	1 1/2"	----
95523	1/4"	1 3/4"	----
95524	1/4"	2"	----

HOSE FERRULES

Brass Hose Ferrules offer an alternative to hose clamps. After crimping, the ferrule will provide a permanent clamping force on both the hose and fitting.

I.D.  Pierce/ Hole

- ASTMB36 Alloy 268

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	
32500	6231	0.330	0.49	0.250	0.020	----
32501	833	0.358	0.500	0.265	0.020	----
32503	833B	0.375	0.718	0.265	0.025	----
32502	622	0.380	0.500	0.265	0.020	----
32550	619	0.400	0.47	0.27	0.020	----
32504	620	0.410	0.500	0.265	0.020	----
32551	769R	0.450	0.562	0.343	0.020	----
32552	4750	0.478	0.687	0.328	0.025	----
32553	624R	0.500	0.500	0.343	0.020	----
32506	7322A	0.500	1.000	0.343	0.025	----
32554	7322	0.500	1.000	0.328	0.025	----
32555	625	0.525	0.47	0.36	0.020	----
32517	625A	0.525	0.56	0.360	0.020	----
32556	7323	0.525	1.000	0.375	0.025	----
32521	9974	0.525	1.000	0.437	0.025	----
32557	7324	0.531	1.000	0.375	0.025	----
32558	626	0.550	0.484	0.375	0.020	----
32507	3588	0.56	0.75	0.375	0.020	----
32559	7325	0.56	1.000	0.437	0.025	----
32561	7326	0.593	1.000	0.437	0.025	----
32563	JJ	0.600	0.500	0.500	0.020	----
32526	II	0.625	0.500	0.500	0.020	----
32564	7327	0.625	1.000	0.437	0.025	----
32565	HH	0.650	0.500	0.500	0.020	----
32566	7328	0.656	1.000	0.437	0.025	----
32567	GG	0.675	0.515	0.500	0.020	----
32568	7329	0.69	1.000	0.500	0.025	----

PART #	FERRULE #	I.D.	LENGTH	PIERCE	GAUGE	
32570	7330	0.718	1.000	0.500	0.025	----
32508	7330A	0.718	1.000	0.625	0.025	----
32571	EE	0.725	0.530	0.500	0.020	----
32572	DD	0.750	0.531	0.500	0.020	----
32510	7331B	0.75	1.00	0.500	0.025	----
32573	7331	0.750	1.000	0.625	0.025	----
32574	CC	0.775	0.531	0.500	0.020	----
32533	7332B	0.781	1.000	0.500	0.025	----
32575	7332	0.781	1.000	0.625	0.025	----
32576	BB	0.800	0.546	0.562	0.020	----
32577	7333	0.812	1.000	0.625	0.025	----
32578	AA	0.825	0.546	0.562	0.020	----
32535		0.85	0.968	0.687	0.025	----
32579	7244	0.875	0.843	0.687	0.025	----
32539	5029A	0.900	0.875	0.687	0.025	----
32580	7113	0.925	0.968	0.750	0.025	----
32543	5028A	0.975	0.843	0.687	0.025	----
32545	5235A	1.000	0.843	0.687	0.025	----
32549	7145A	1.050	0.843	0.687	0.025	----
32584	5027	1.100	0.843	0.812	0.025	----
32586	7104A	1.15	0.843	0.875	0.025	----
32588	7088A	1.175	0.875	0.875	0.025	----
32590	875L	1.200	0.843	0.875	0.025	----
32591	7291	1.225	0.968	0.875	0.025	----
32592	7255	1.25	0.968	1.000	0.04	----
32596	8000	1.425	0.875	1.062	0.025	----
32597	1500	1.50	0.875	1.125	0.025	----



STAINLESS STEEL FERRULES

PART #	CROSS #	I.D.	LENGTH	HOLE	METAL THICKNESS	
32552SS	x4750	.478	.687	.328	.020	----
32557SS	7324	.531	1.00	.438	.020	----
32559SS	7325	.56	1.00	.437	.020	----
32561SS	7326	.593	1.00	.437	.020	----
32564SS	7327	.625	1.00	.437	.020	----
32566SS	7328	.656	1.00	.437	.020	----
32568SS	7329	.69	1.00	.50	.020	----
32570SS	7330	.718	1.00	.625	.020	----
32575SS	7332	.781	1.00	.625	.020	----
32577SS	7333	.812	1.00	.625	.020	----
32588SS	7088A	1.175	.844	.875	.020	----

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TUBING



POLYURETHANE



POLYETHYLENE

Sold individually boxed



Natural, Black, Blue, Green, Red, Yellow, Orange

NYLON

Sold individually boxed



PVC

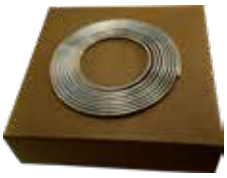
• Clear

Sold individually boxed



COPPER AND ALUMINUM





TYPE L AND REFRIGERATION

ALUMINUM



POLYURETHANE NSF 51®



NSF 51® polyurethane (PUR) Shore A 98 tubing is made from the highest quality raw materials available. it is etherbased to provide excellent hydrolysis, oil and cold resistance. Polyurethane NSF 51® is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

Polyurethane NSF 51® tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant
- NSF 51® Certified
- Meets NSF 61® Requirements

Specifications

Temperature Range: -40°F to +160°F
Hardness: Shore A 98
Vacuum Rating:
To 28" Hg
Tolerances:
1/8"-1/2" O.D. +/- .005
9/16"-3/4" O.D. +/- .006
RoHS Compliant

Applications

Pneumatic Tools
Pneumatic Piping
Vacuum
Laboratories
Robotics
Motion Control
Instrumentation
Agriculture
Lube Lines
Painting Systems
Food & Beverages

100' FOOT LENGTHS

CLEAR



PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACKAGE WEIGHT (LBS)	
973341	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
973343	.250	.156	.047	.476	180	70	540	1.50	----

BLACK



PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341B	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343B	.250	.156	.047	.476	180	70	540	1.50	----
73345B	.375	.250	.063	1.000	150	70	450	3.40	----

BLUE



PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RA-DIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341U	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343U	.250	.156	.047	.476	180	70	540	1.50	----
73345U	.375	.250	.063	1.000	150	70	450	3.40	----

RED



PART #	O.D. (IN)	I.D. (IN)	WALL THICK-NESS (IN)	BEND RA-DIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRES-SURE	PACK-AGE WEIGHT (LBS)	
73341R	4mm, 5/32	.093	.031	.250	200	85	600	.70	----
73343R	.250	.156	.047	.476	180	70	540	1.50	----
73345R	.375	.250	.063	1.000	150	70	450	3.40	----
73346R	.562	.375	.093	1.142	140	60	420	5.60	----

OD Sizes Available

.125, .187, 1/4(1/8), 8mm(5/16)
.562, .625 and .750

Other sizes, Lengths and Colors available

- Available in longer lengths upon request
- Other colors available

POLYETHYLENE

LINEAR LOW DENSITY POLYETHYLENE TUBING (LLDPE)

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements
- Multiple Colors Available
- Vacuum rating to 28" Hg

Polyethylene is made from 100% non-toxic ingredients. It's inert nature and FDA compliant status makes it perfect for food, water and beverage piping. It is ideal for use in pneumatic, drain piping, lab use and chemical transfer applications which require an inexpensive tubing

Polyethylene is highly-resistant to stress cracking from chemicals, aging and ultraviolet exposure. For use with barb-type, push-to-connect or compression-style fittings.

Specifications

Temperature Range: -50°F to +140°F

Hardness: Shore A 93A
Shore D 45D

Applications

Food & Beverage
Pneumatic Tools
Pneumatic Piping
Electrical Jacketing
Drain Lines
Instrumentation
Chemical Transfer
Process Control
Laboratories



100' LENGTH



500' LENGTH



1000' LENGTH

100' LENGTH - Natural

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
973200	1/8"	0.08	0.022	250	----
973203	1/4"	0.17	0.040	150	----
973204	1/4"	0.125	0.0625	350	----
973205	8mm/5/16"	0.236	0.038	150	----
973206	3/8"	0.25	0.0625	150	----
973207	1/2"	0.375	0.0625	125	----
973208	5/8"	0.50	0.0625	100	----

500' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
73200N5	1/8"	0.085	0.020	250	----
73203N5	1/4"	0.17	0.040	150	----
73204N5	1/4"	0.125	0.0625	350	----
73206N5	3/8"	0.25	0.0625	150	----
73207N5	1/2"	0.375	0.0625	125	----

1000' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
73203N1	1/4"	0.17	0.040	150	----
73206N1	3/8"	0.25	0.0625	150	----

POLYETHYLENE
TUBING

LLDPE POLYETHYLENE TUBING - COLORS

BLACK



- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203B	Black	100'	1/4"	----
73204B	Black	100'	1/4"	----
73205B	Black	100'	5/16"	----
73206B	Black	100'	3/8"	----
73207B	Black	100'	1/2"	----
73208B	Black	100'	5/8"	----
73203B5	Black	500'	1/4"	----
73205B5	Black	500'	5/16"	----
73206B5	Black	500'	3/8"	----
73207B5	Black	500'	1/2"	----
73203B1	Black	1000'	1/4"	----
73206B1	Black	1000'	3/8"	----

GREEN



- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203G	Green	100'	1/4"	----

RED



- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203R	Red	100'	1/4"	----
73206R	Red	100'	3/8"	----
73203R5	Red	500'	1/4"	----
73206R5	Red	500'	3/8"	----
73203R1	Red	1000'	1/4"	----

BLUE



- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	
73203U	Blue	100'	1/4"	----
73206U	Blue	100'	3/8"	----
73207U	Blue	100'	1/2"	----
73203U5	Blue	500'	1/4"	----
73206U5	Blue	500'	3/8"	----
73203U1	Blue	1000'	1/4"	----

I truly believe that everything that we do and everyone that we meet is put in our path for a purpose. There are no accidents; we're all teachers - if we're willing to pay attention to the lessons we learn, trust our positive instincts and not be afraid to take risks or wait for some miracle to come knocking at our door.

- Marla Gibbs

NYLON 12 TUBING

Nylon 12 tubing is recognized as an industry standard for applications which require higher working pressures and higher heat and/or chemical resistance. It is ideal for outdoor use applications because of its superior stress crack resistance. Nylon 12 is strong, lightweight and has a very low moisture absorption rate compared to other nylons. By not absorbing moisture, Nylon 12 remains more flexible, which in turn extends it's service life. Nylon 12 tubing can be used with standard push-to-connect fittings and compression fittings for simple installation.

Because of it's semi-rigid properties, a thinner tube wall provides higher flow rates and working pressure.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat Resistant
- Chemical Resistant
- Heat/ Light Stabilized
- Black - UV Rated

Specifications

Temperature Range: -60°F to +200°F
Hardness: Rockwell 78 R
Shore D 70
Vacuum Rating: To 28" Hg
Higher Flow Rates & Working Pressure
Tolerances: 1/8'-1/4" +/- .004
3/4"-1/2" +/- .006

Applications

Pneumatic Tools
Pneumatic Piping
Instrumentation
Lube Lines
Coolants
Refrigeration
Chemical Transfer
Vacuum
Process Control
Fuel Lines
Paint Supply Lines
Laboratories

Part #'s shown are for natural. 500' and 1000' reels available on request.


100' LENGTH


BLACK TUBING & MISC.


METRIC LENGTH

100' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	
973230	1/8"	0.08	.022	420	----
973231	5/32"	0.106	.025	350	----
973232	1/4"	0.18	.035	290	----
973238	1/4"	0.15	.05	800	----
973226	5/16"	0.236	.039	250	----
973233	3/8"	0.275	.050	250	----
973234	1/2"	0.375	.062	240	----

BLACK TUBING & MISC.

PART #	O.D.	TUBE ID	WALL	WORKING PRESSURE	
73230B	1/8	0.08	0.022	420	----
73231B	5/32	0.106	0.025	350	----
73232B	1/4	0.18	0.035	290	----
73238B	1/4	0.15	0.05	800	----
73233B	3/8	0.275	0.05	250	----
73232N5*	1/4	0.18	0.035	290	----
73238U**	1/4	0.15	0.075	800	----

• 500' Natural **Blue

*METRIC LENGTH - 100 ft. coils

• available in natural color only

PART #	MM O.D.	MM I.D.	MM WALL	WORKING PRESSURE	
973323	4	2.7	0.65	350	----
973326	6	3.5	1.25	350	----
973325	6	4	1	340	----
973327	8	6	1	250	----
973329	10	8	1	225	----
973332	12	10	1	200	----
973334	14	11	1.5	175	----

PVC POLYVINYLCHLORIDE TUBING – NSF61



PVC is suited for general, low-pressure, industrial applications for the conveyance of liquids and solids of suitable granular size. Made from a PVC compound that complies with FDA regulations. Although it is primarily intended for applications where pressure is not essential, it will withstand the pressures shown.

The clear PVC Tubing provides good chemical resistance, is lightweight, flexible and economically priced.

Features
- Lightweight
- Flexible
- Food Grade
- Clear Color/ Blue tint

Specifications
Temperature Range: +25°F to +150°F
Hardness: Shore A 75 PVC
Meets FDA requirements
NSF 61 Certified
USP Class VI rated materials
RoHS Compliant

Applications
Beverage Dispensing
Drain Tubing
Potable Water
Laboratory Tubing
Wine Transfer
Low Pressure Air Line
Distilled Water Transfer
Light Vacuum
Wire Harness
3:1 Burst Pressure

Colors Available: Clear

Package Lengths: 100'

100' LENGTH

PART #	TUBE I.D.	TUBE O.D.	TUBE WALL	WORKING PRESSURE	
973224	1/8 (.125)	1/4 (.25)	1/16 (.032)	50	----
973223	3/16 (.187)	5/16 (.313)	1/16 (.062)	55	----
973215	1/4 (.25)	3/8 (.375)	1/16 (.062)	55	----
973252	5/16 (.312)	7/16 (.438)	1/16 (.062)	50	----
973253	5/16 (.312)	1/2 (.500)	3/32 (.094)	55	----
973216	3/8 (.375)	1/2 (.500)	1/16 (.062)	45	----
973255	3/8 (.375)	5/8 (.625)	1/8 (.125)	55	----
973262	3/8 (.375)	9/16 (.563)	3/32 (.094)	50	----
973217	1/2 (.500)	5/8 (.625)	1/16 (.062)	30	----
973219	3/4 (.750)	1 (1.00)	1/8 (.125)	35	----
973221	1 (1.00)	1-1/4 (1.25)	1/8 (.125)	25	----

TUBE CUTTERS

MINI-TUBING CUTTER
- Great for tight places



Part #	Size	
990571	3mm-22mm (1/8"-7/8")	----

TUBING CUTTER



PART #	SIZE	
990570	1/8"-1-1/8"	----

PLASTIC TUBE CUTTER
Range: 1/8" - 3/8" I.D. (3mm-10mm)



PART #	DESCRIPTION	
91707	Cutter w/Blade	----

MOUNTING RACKS



- Route and secure multiple tubing lines
- Mounting versatility
  - Racks can be easily hand separated down to single holders.
  - Thru holes provided (all sizes)
- Standard color is BLACK.

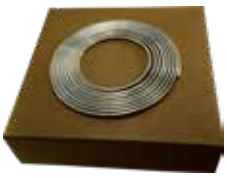
Other colors available on special request.

NOTE: MOUNTING SCREWS NOT PROVIDED

PART #	TUBING OD	DESCRIP.	CHANNELS	
28988	1/4	non-adhesive	10	----
28989	1/4	adhesive	10	----
28990	3/8	non-adhesive	7	----
28991	1/2	non-adhesive	5	----

ALUMINUM TUBING – EASY BEND

Alloy 3003-0 ASTM B-483



Material to ASTM B-483

900 PSI max
3700 Burst PSI

Bend this tubing into the shape you need without special tools or elbow fittings. It is also known as Alloy 3003. Tubing has seamless construction, which provides a smooth interior and allows it to be flared without splitting. Use with water, air, alcohol and oil. Tubing meets ASTM B483 and has a soft (annealed) temper. OD tolerance is ±0.004"

ALUMINUM VERSATUBE 50' COILS

PART #	O.D.	WALL THICK	ID	MAX PSI @ 100°F	CASE	50' COILS
972190	1/8	.025	.075"	2,300	10 coils	----
972191	3/16	.028	.132"	1,600	10 coils	----
972192	1/4	.032	.186"	1,400	10 coils	----
972193	5/16	.035	.243"	1,200	10 coils	----
972194	3/8	.035	.305"	1,000	10 coils	----
972195	1/2	.035	.43"	740	10 coils	----

COPPER TUBING – REFRIGERATION TUBING

ASTMB280



- Temp range: 32° to 400°F
- Bend with a bending tool
- Use with copper solder-connect fittings

This copper Alloy 122 tube comes cleaned and capped to prevent moisture and dirt from contaminating the inside. It's often called refrigeration and air conditioning tubing. Use with water, natural gas, oil and R22 refrigerant. Tubing meets ASTM B280. It has seamless construction, which provides a smooth interior. Tubing has a soft (annealed) temper.

REFRIGERATION COPPER TUBE 50' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 50' COIL	50' COILS
972180	-	1/8	.030	.065"	3,000	1.74	----
972181	-	3/16	.030	.128"	1,900	2.88	----
972182	1/8	1/4	.030	.19"	1,400	4..02	----
972183	-	5/16	.032	.248"	1,100	5.45	----
972184	1/4	3/8	.032	.311"	980	6.70	----
972185	3/8	1/2	.032	.436"	720	9.10	----
972186	1/2	5/8	.035	.555"	610	12.55	----
972187	5/8	3/4	.035	.68'	510	15.25	----

COPPER TUBING - DRINKING WATER

For residential water lines



- Temp range: 32° to 180°F
- Bend with a bending tool
- Use with copper solder-connect fittings

NSF 61 certified for drinking (potable) water, this copper Alloy 122 tubing is also called type L. Tubing meets ASTM B88. It has seamless construction, which porovides a smooth interior. Coils - Have a soft (annealed) temper.

• Water service • Natural, liquified and petroleum gases • Fire protection • Solar • Fuel/ Fuel oil • HVAC • Snow melting - Air Brake

TYPE L SOFT COPPER TUBING 60' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 60' COIL	60' COILS
972171	1/4	3/8"	.03"	.315"	910	7.56	----
972172	3/8	1/2	.035"	.43"	770	11.88	----
972173	1/2	5/8"	.04"	.545"	720	17.10	----

WARNING: This product can expose you to chemicals, including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

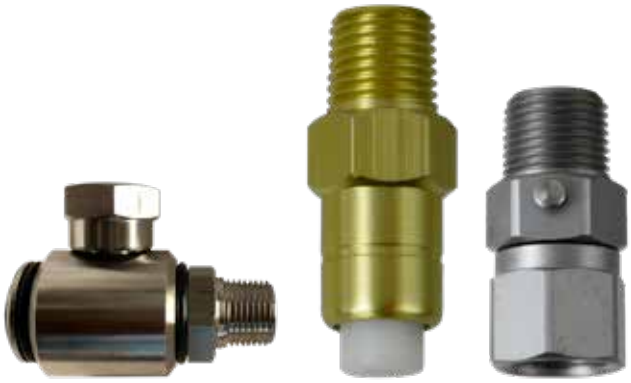
HIGH PRESSURE SPRAYERS



STRAIGHT THROUGH QDS



FITTINGS AND SWIVELS



NOZZLES



SPRAY GUNS AND WANDS



WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NOZZLES

QUICK DISCONNECT NOZZLE

0-degree red tip nozzle, 15-degree yellow tip nozzle, 25-degree green tip nozzle, 40-degree white tip nozzle, and 65-degree black tip detergent nozzle. All nozzles are 4000 PSI and stainless steel, except for detergent nozzle, which is 600 PSI and brass. All Nozzles are rated for temperatures up to 300°F. Nozzles attach with ¼" quick disconnect plug.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI	
DX250030	0	3.0	----
DX251530	15	3.0	----
DX252530	25	3.0	----
DX254030	40	3.0	----
DX250040	0	4.0	----
DX251540	15	4.0	----
DX252540	25	4.0	----
DX254040	40	4.0	----
DX250050	0	5.0	----
DX251550	15	5.0	----
DX252550	25	5.0	----
DX254050	40	5.0	----
DX250060	0	6.0	----
DX251560	15	6.0	----
DX252560	25	6.0	----
DX254060	40	6.0	----
DX256500	65		----

MEG NOZZLE

Available in 0-degree nozzle, 15-degree nozzle, 25-degree nozzle, or 40-degree nozzle. Nozzle sizes 3.0, 4.0, 5.0, 6.0 or 7.0. All nozzles are 7250 PSI 300°F, stainless steel and ¼" male pipe thread.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI	
DX140030MG	0	3.0	----
DX141530MG	15	3.0	----
DX142530MG	25	3.0	----
DX144030MG	40	3.0	----
DX140040MG	0	4.0	----
DX141540MG	15	4.0	----
DX142540MG	25	4.0	----
DX144040MG	40	4.0	----
DX140050MG	0	5.0	----
DX141550MG	15	5.0	----
DX142550MG	25	5.0	----
DX144050MG	40	5.0	----
DX140060MG	0	6.0	----
DX141560MG	15	6.0	----
DX142560MG	25	6.0	----
DX144060MG	40	6.0	----
DX140070MG	0	7.0	----
DX141570MG	15	7.0	----
DX142570MG	25	7.0	----
DX144070MG	40	7.0	----

QUICK DISCONNECT NOZZLE 5-PIECE KIT

PART #	GPM @ 4000PSI	
DX259520	2.0	----
DX259530	3.0	----
DX259540	4.0	----
DX259550	5.0	----
DX259560	6.0	----
DX259570	7.0	----



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SWIVELS

RUBBER-TIP TURBO NOZZLE

Rubber tip, rotating turbo nozzle, ¼" NPT with steel male quick disconnect plug adaptor, rated for temperatures up to 300°F.



PART #	PSI	GPM @ 4000PSI	
DX722530	2500	3.0	----
DX722540	2500	4.0	----
DX722550	2500	5.0	----
DX722560	2500	6.0	----
DX723230	3200	3.0	----
DX723240	3200	4.0	----
DX723250	3200	5.0	----
DX723260	3200	6.0	----
DX724030	4000	3.0	----
DX724040	4000	4.0	----
DX724050	4000	5.0	----
DX724060	4000	6.0	----
DX725030	5000	3.0	----
DX725040	5000	4.0	----
DX725050	5000	5.0	----
DX725060	5000	6.0	----

STAINLESS STEEL LIVE SWIVEL

MxF straight through live swivel, NBR or Viton seal, 416 SS, 10.6 gpm, 180F max, 3500 PSI



PART #	SEAL	SIZE	
DX60021	NBR	1/4"	----
DX60022	NBR	3/8"	----
DX60023	NBR	1/2"	----
DX60021V	Viton	1/4"	----
DX60022V	Viton	3/8"	----
DX60023V	Viton	1/2"	----

THERMAL RELIEF VALVE

140F Thermal Relief Valve, Brass, 300 PSI



PART #	SIZE	
DX35TR25	1/4"	----
DX35TR38	3/8"	----

90° BOOM SWIVEL

Male x Female 90° Boom swivel, Stainless Steel, 5000 PSI, 7GPM, 300°F



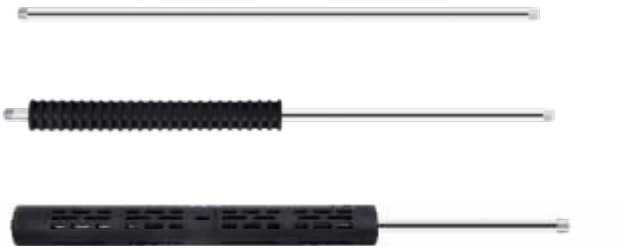
PART #	SIZE	
DX60092	3/8"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRAYERS

CHROMED STEEL WAND

1/4" MNPT x 1/4" Extension Wands, 10.5 GPM, 300F



PART #	SIZE	GRIP	
DX4324	24"	No Grip	----
DX4336	36"	No Grip	----
DX4424	24"	Molded Grip	----
DX4436	36"	Molded Grip	----
DX4524VG	24"	Vented Grip	----
DX4536VG	36"	Vented Grip	----

SPRAY GUN

Rear entry spray gun, 4000 PSI, 7 GPM, 212F max, inlet 3/8", outlet 1/4"



PART #	PRESSURE	FLOW	TEMPERATURE	
DX5090	4000	7	212	----
DX5022	4000	6.6	300	----
DX5005	5075	10.5	300	----

WEEPING SPRAY GUN

Rear entry spray gun, weeping, 5000 PSI, 10.5 GPM, 300F, , inlet 3/8", outlet 1/4"

Weep style spray guns allow for a continuous flow of water by way of a small hole in the bottom of the gun that produces a slight leak, or a weeping effect. This helps prevent lines freezing in cold weather or scalding water temperatures in hot weather that could damage the pumps.



PART #	
DX5006	----

SPRAY GUN WITH EXTENSION*

Rear entry spray gun with 12" extension, 4000psi, 7gpm, 300F max, inlet 3/8", outlet M22



PART #	
DX5190	----

SPRAY GUN WITH EXTENSION*

Rrear entry spray gun with 12" extension, 5075psi, 10.5gpm, 300F max, inlet 3/8", outlet M22



PART #	
DX5197	----

*Requires a 86-005 for MEG Nozzle and a 86-005 & 86-030 for QD Nozzle

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COUPLERS/ PLUGS
HIGH PRESSURE SPRAYER

QUICK DISCONNECTS

- Brass couplers have brass bodies and brass valves, 8 steel locking balls, Buna-N seal, and stainless steel springs
- Stainless steel couplers have stainless steel bodies, 8 stainless steel locking balls, Buna-N seal, and stainless steel springs
- Plugs are steel with green blue zinc plating or stainless steel
- Straight through design means there is no positive shut-off after disconnect
- Fully interchangeable with Parker, Hansen, Foster and Adams
- Use with liquids, hydraulic service, compressed air, gases, water and vacuum
- Ideal for applications such as high pressure water, steam washers, and carpet cleaners
- Max. Temp. 212°F for Couplers/ 300°F for Plugs
- Max Flow: 10.5 GPM

STRAIGHT THROUGH STYLE

MALE BRASS COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	
86030	1/4	1/4	4000	----
86031	3/8	3/8	4000	----
86032	1/2	1/2	4000	----

FEMALE BRASS COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	
86035	1/4	1/4	4000	----
86036	3/8	3/8	4000	----
86037	1/2	1/2	4000	----

MALE STAINLESS STEEL COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	
86030SS	1/4	1/4	6000	----
86031SS	3/8	3/8	6000	----

FEMALE STAINLESS STEEL COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	
86035SS	1/4	1/4	6000	----
86036SS	3/8	3/8	6000	----

MALE STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	
86040	1/4	1/4	4000	----
86041	3/8	3/8	4000	----
86042	1/2	1/2	4000	----

FEMALE STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	
86045	1/4	1/4	4000	----
86046	3/8	3/8	4000	----
86047	1/2	1/2	4000	----

MALE STAINLESS STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	
86040SS	1/4	1/4	6000	----
86041SS	3/8	3/8	6000	----

FEMALE STAINLESS STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	
86045SS	1/4	1/4	6000	----
86046SS	3/8	3/8	6000	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COUPLERS/ KNOBS
HIGH PRESSURE SPRAYER

MOLDED GRIP MALE BRASS COUPLER



PART #	THREAD SIZE	THREAD SIZE	PSI	
86030RG	1/4	1/4	4000	----
86031RG	3/8	3/8	4000	----

MOLDED GRIP FEMALE BRASS COUPLER



PART #	THREAD SIZE	PLUG	PSI	
86035RG	1/4	1/4	4000	----
86036RG	3/8	3/8	4000	----

M22 SCREW TYPE X MNPT



PART #	THREAD SIZE	MALE	PSI	
86001	M22	1/4	4000	----
86002	M22	3/8	4000	----

M22 SCREW TYPE X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI	
86005	M22	1/4	4000	----
86006	M22	3/8	4000	----

INSULATED KNOB

M22 INSULATED KNOB X MNPT



PART #	THREAD SIZE	MALE SIZE	PSI	
86012	M22	1/4	4000	----
86013	M22	3/8	4000	----

M22 INSULATED KNOB X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI	
86017	M22	1/4	4000	----
86018	M22	3/8	4000	----

M22 X M22 FNPT



PART #	THREAD SIZE	THREAD SIZE	PSI	
86022	M22	M22	4000	----

M22 INSULATED KNOB X QC PLUG



PART #	THREAD SIZE	PLUG	PSI	
86020	M22	3/8	4000	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PNEUMATICS



1/4" INDUSTRIAL INTERCHANGE	3/8" INDUSTRIAL INTERCHANGE	1/2"	1/4" ARO	1/4" AUTO	3/8" AUTO	1/4" LINCOLN	1/4" STRAIGHT THRU	3/8" STRAIGHT THRU

QUICK DISCONNECTS



- Universal
- ARO 210
- Lincoln
- Industrial
- Automotive
- ST Series - High Flow

BREATHER VENTS, MUFFLERS



- Mufflers
- Snubbers
- In-line filters
- Breather vents
- Control valves
- Manifolds

PNEUMATIC ACCESSORIES



- Kits NEW
- Tire gauge
- Tank and vent valves
- Blow guns
- Air chucks
- Inflators

GAUGES



- Liquid filled & Dry
- Lower mount & center mount
- Water test
- Syphons

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INDUSTRIAL INTERCHANGE

- Couplers are brass or plated steel body with brass or steel valves, 6 steel locking balls, NBR seal and stainless steel springs

6 Steel locking balls (1/2" body size has 8 steel locking balls)

- Plugs are brass or steel with green blue zinc plating
- Industry standard design for compressed air, water, grease, paint, limited vacuum and limited gases
- Manual retract for connecting and disconnecting
- Maximum working pressure is 250 PSI

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28540	1/4"	1/4"	----
28541	1/4"	3/8"	----

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28552	1/4"	1/4"	----
28553	1/4"	3/8"	----

STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28540S	1/4"	1/4"	----
28541S	1/4"	3/8"	----
98810	3/8"	1/4"	----
98811	3/8"	3/8"	----
98812	3/8"	1/2"	----
99812	1/2"	1/2"	----

STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28552S	1/4"	1/4"	----
28553S	1/4"	3/8"	----
98823	3/8"	1/4"	----
98824	3/8"	3/8"	----
98825	3/8"	1/2"	----
99825	1/2"	1/2"	----
99826	1/2"	3/4"	----

BRASS HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	
28562	1/4"	1/4"	----
28564	1/4"	3/8"	----

STEEL HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	
28562S	1/4"	1/4"	----
28564S	1/4"	3/8"	----
98840	3/8"	1/4"	----
98841	3/8"	3/8"	----
99841	1/2"	3/8"	----
99843	1/2"	1/2"	----

BRASS PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	
28565	1/4"	1/4"	----
28566	1/4"	3/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INDUSTRIAL
PNEUMATICS

STEEL PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	
28565S	1/4"	1/4"	----
28566S	1/4"	3/8"	----
98842	3/8"	3/8"	----

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28545	1/4"	1/8"	----
28546	1/4"	1/4"	----
28547	1/4"	3/8"	----
98814	3/8"	1/4"	----
98815	3/8"	3/8"	----
99816	1/2"	1/2"	----
99817	1/2"	3/4"	----

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28533	1/4"	1/8"	----
28534	1/4"	1/4"	----
28535	1/4"	3/8"	----
98801	3/8"	1/4"	----
98802	3/8"	3/8"	----
99803	1/2"	1/2"	----
99804	1/2"	3/4"	----

BRASS MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28546B	1/4"	1/4"	----

BRASS FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28534B	1/4"	1/4"	----

STEEL HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	
28557	1/4"	1/4"	----
28559	1/4"	3/8"	----
98828	3/8"	3/8"	----
99828	1/2"	3/8"	----
99830	1/2"	1/2"	----

STEEL PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE	
28558	1/4"	1/4"	----
28561	1/4"	3/8"	----
98830	3/8"	3/8"	----

STEEL SWIVEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
320065	1/4"	1/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

UNIVERSAL SERIES COUPLERS

- Automatic Coupler means flow will cut off automatically at time of disconnect
- Brass Couplers have brass body and brass sleeve with brass valve, 6 steel locking balls, NBR seal and 6 stainless steel springs.
- Stainless Steel Couplers have stainless steel body and stainless steel sleeve with stainless steel valve, 6 steel locking balls, FKM seal, and stainless steel springs
- Coupler compatible with ARO 210, Parker Interchange and Industrial Interchange plugs
- Maximum working pressure is 250 PSI

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28579	1/4"	1/4"	----
28589	1/4"	3/8"	----

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28560	1/4"	1/4"	----

BRASS HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	
28690	1/4"	1/4"	----
28691	1/4"	3/8"	----

STAINLESS STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28579SS	1/4"	1/4"	----

STAINLESS STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28560SS	1/4"	1/4"	----

STAINLESS STEEL INDUSTRIAL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28546SS	1/4"	1/4"	----

STAINLESS STEEL INDUSTRIAL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28534SS	1/4"	1/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ARO 210 INTERCHANGE

- Couplers have brass bodies and brass valves, 6 steel locking balls, NBR seal, and stainless steel springs
- Plugs are steel with green blue zinc plating
- Couplers have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect
- Maximum working pressure is 250 PSI

MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28592	1/4"	1/8"	----
28593	1/4"	1/4"	----
28594	1/4"	3/8"	----

MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28586	1/4"	1/8"	----
28587	1/4"	1/4"	----

FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28583	1/4"	1/8"	----
28584	1/4"	1/4"	----
28585	1/4"	3/8"	----

FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28578	1/4"	1/4"	----

HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	
28601	1/4"	1/4"	----
28603	1/4"	3/8"	----

HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	
28595	1/4"	1/4"	----
28597	1/4"	3/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE (TRU-FLATE)

- Brass couplers are brass bodies with brass valves, 6 steel locking balls, NBR seal, and stainless steel springs. Steel couplers are steel bodies with steel valves, 6 stainless steel locking balls, NBR seal, and stainless steel springs.
- Plugs are brass or steel with green blue zinc plating
- Unique design has been field proven as a long-lasting, high performance coupling especially when used with pneumatic tools
- Maximum working pressure is 300 PSI

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28515	1/4"	1/8"	----
28516	1/4"	1/4"	----
28517	1/4"	3/8"	----

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28507	1/4"	1/4"	----
28508	1/4"	3/8"	----

STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28516S	1/4"	1/4"	----
28514S	3/8"	1/4"	----
28519S	3/8"	3/8"	----

STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28507S	1/4"	1/4"	----
28525S	3/8"	1/4"	----
28526S	3/8"	3/8"	----

BRASS MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28510B	1/4"	1/4"	----

BRASS FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28501B	1/4"	1/4"	----

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28509	1/4"	1/8"	----
28510	1/4"	1/4"	----
28511	1/4"	3/8"	----
28512	3/8"	1/4"	----
28513	3/8"	3/8"	----

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28500	1/4"	1/8"	----
28501	1/4"	1/4"	----
28502	1/4"	3/8"	----
28503	3/8"	1/4"	----
28504	3/8"	3/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE

PNEUMATICS

HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	
28528	1/4"	1/4"	----
28530	1/4"	3/8"	----
28536	3/8"	1/4"	----

HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	
28518	1/4"	1/4"	----
28520	1/4"	3/8"	----
28523	3/8"	1/4"	----
28524	3/8"	3/8"	----

PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	
28531	1/4"	1/4"	----
28532	1/4"	3/8"	----

PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE	
28521	1/4"	1/4"	----
28522	1/4"	3/8"	----

LINCOLN INTERCHANGE

- Couplers have brass bodies with steel sleeves, Acetal valves, 6 steel locking balls, Nitrile seal and stainless steel springs
- Plugs are steel with green blue zinc plating
- Manual style
- Unique design includes long nose and short ball groove
- Maximum working pressure is 250 PSI

MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28683	1/4"	1/4"	----

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28685	1/4"	1/8"	----
28686	1/4"	1/4"	----

FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28684	1/4"	1/4"	----

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28687	1/4"	1/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ST SERIES...HIGH FLOW

SPECIFICATIONS

Brass - Coupler & Steel Plug	
Temperature Range	-40° to 250°

- Non-valved couplings for applications where maximum flow is required. Ideal for applications such as high pressure water and steam washers, carpet cleaners and mold coolant lines. They are often used in food processing, on fluid and dye transfer lines.
- Standard seals are Buna-N (Nitrile).

MALE PIPE COUPLER

BRASS



PART #	BODY & THREAD SIZE	
28667	1/8"	----
28665	1/4"	----
28666	3/8"	----
28668	1/2"	----
28669	3/4"	----
28670	1"	----

FEMALE PIPE COUPLER

BRASS



PART #	BODY & THREAD SIZE	
28671	1/8"	----
28651	1/4"	----
28652	3/8"	----
28672	1/2"	----
28673	3/4"	----

MALE PLUG

STEEL



PART #	SIZE	
28675	1/8"	----
28639	1/4"	----
28640	3/8"	----
28676	1/2"	----
28677	3/4"	----

FEMALE PLUG

STEEL



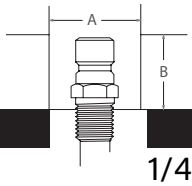
PART #	SIZE	
28688	1/8"	----
28619	1/4"	----
28620	3/8"	----
28679	1/2"	----
28680	3/4"	----
28681	1"	----

MOLD COOLANT-LINE QUICK COUPLERS

OPERATING PRESSURE:
200 PSIG (14.06 Kg/sq. cm)
Standard Seal:
SILICONE: -90°F to 400°F (-68°C to + 205°C)

- Our coolant couplers are engineered for optimum speed and performance in connecting coolant lines to molds used for thermoplastic, thermosetting, blow molding, diecasting and on other types of tooling and equipment utilizing a constant fluid flow pumped through cooling channels.







MALE PLUG (BRASS)

1/4" BASIC SIZE

PART #	SIZE	A	B	
29900	1/8"	0.69	0.69	----
29901	1/4"	0.84	0.94	----
29902	3/8"	1.00	0.97	----

3/8" BASIC SIZE

PART #	SIZE	A	B	
29906	1/4"	1.00	0.94	----
29907	3/8"	1.00	1.13	----
29908	1/2"	1.81	1.25	----

1/2" BASIC SIZE

PART #	SIZE	A	B	
29911	1/2"	1.25	1.50	----
29912	3/4"	1.50	1.56	----

FEMALE PLUG (STEEL)

1/4" BASIC SIZE

PART #	SIZE	
29903	1/8"	----
29904	1/4"	----
29905	3/8"	----

3/8" BASIC SIZE

PART #	SIZE	
29909	1/4"	----
29910	3/8"	----

1/2" BASIC SIZE

PART #	SIZE	
29913	1/2"	----
29914	3/4"	----

MINI TYPE QUICK DISCONNECTS

MALE COUPLER



PART #	SIZE	
28605	1/8"	----

FEMALE PLUG



PART #	SIZE	
28608	1/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MUFFLERS/ VENTS
PNEUMATICS

BRASS MUFFLERS

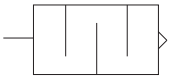
Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Designed to diffuse Air & Muffler noise to acceptable levels within OSHA noise requirements.
• Used on exhaust ports, valves, cylinders and air tools.
• Construction: Porous sintered bronze 40 micron filter element secured to a brass body



PART #	SIZE	
300020	10/32"	----
300021	1/8"	----
300022	1/4"	----
300023	3/8"	----
300024	1/2"	----
300026	3/4"	----
300028	1"	----

40 Micron element

STAINLESS MUFFLERS





Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	
300031	10/32"	----
300032	1/8"	----
300033	1/4"	----
300034	3/8"	----
300035	1/2"	----
300036	3/4"	----
300037	1"	----

BRASS BREATHER VENT

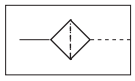


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 150PSI
Temperature: 35° to 300°F
• Application: Prevents Dirt and Foreign Particles from Entering Ports Open to Atmosphere. Typically used on Acting Cylinders
• Additional Use is Vacuum Relief or Pressure Equalization on Storage Vessels or Tanks
• Construction: Porous Sintered Bronzed 40 Micron Filter Element Secured to a brass body

PART #	SIZE	
300000	10-32"	----
300001	1/8"	----
300002	1/4"	----
300003	3/8"	----
300004	1/2"	----
300006	3/4"	----
300008	1"	----

40 Micron element

STAINLESS BREATHER VENT

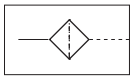




Materials:
Body: 303 Grade Stainless Steel
Element:316 Grade Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 390°F

PART #	SIZE	
300014	1/8"	----
300015	1/4"	----
300017	3/8"	----
300018	1/2"	----
300019	3/4"	----
300007	1"	----

PRESSURE SNUBBER



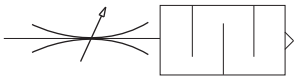


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 9000PSI
Temperature: 35° to 300°F
• Applications: Protect pressure instruments from sudden pressure surges and fluctuations providing more accurate gauge readings
• Construction: Solid brass housing with porous bronze element
• Can be used for mini in-line filters
• 5 different porosity elements per package, allows each user to adjust snubbing capacity for the specific application

PART #	SIZE	POROSITY	
28354	1/4"	40 um	----
28353	1/4"	30 um	----
28352	1/4"	25 um	----
28351	1/4"	20 um	----
28350	1/4"	10 um	----

Recommended Element Porosity Rating		
Rating	Color	Recommended Application
40 um	None	Viscous Fluids (over 500 ssu)

SPEED CONTROL VALVE



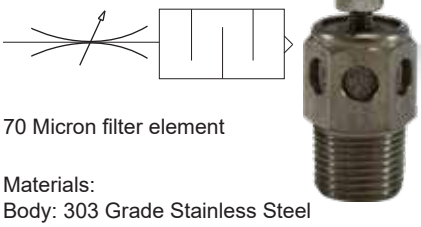


Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F
• Application: Provide infinite variation of metering air flow at acceptable sound levels on air valve exhaust ports with complete safety
• The speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw, the final position is locked in place by a lock nut
• Objectionable exhaust air noise is eliminated by the surrounding sleeve - 40 µm sintered bronze
• Brass Body
• Max operating pressure: 300PSI
• Operating temperature: 35° F to 300° F

PART #	SIZE	
940800	1/8"	----
940801	1/4"	----
940803	3/8"	----
940804	1/2"	----
940805	3/4"	----
940806	1"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS SPEED CONTROL VALVE

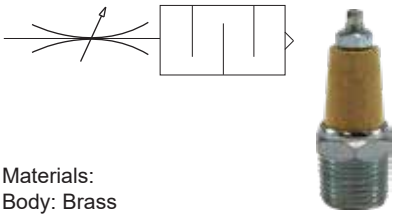


70 Micron filter element

Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	
940810	1/8"	----
940811	1/4"	----
940812	3/8"	----
940813	1/2"	----
940814	3/4"	----
940815	1"	----

MUFFLER W/ FLOW ADJUSTMENT

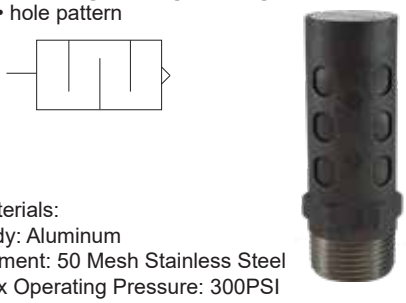


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	
28379	1/8"	----
28380	1/4"	----
28381	3/8"	----
28382	1/2"	----

HIGH FLOW ALUMINUM MUFFLER

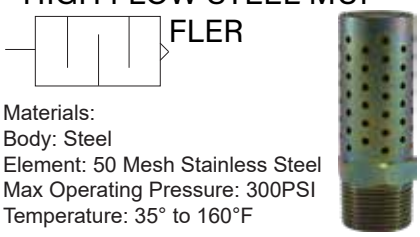
• hole pattern



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	
940822	1/8"	----
940823	1/4"	----
940824	3/8"	----
940825	1/2"	----
940826	3/4"	----
940827	1"	----

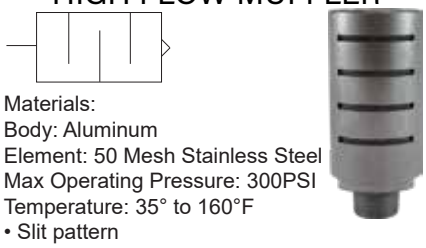
HIGH FLOW STEEL MUFFLER



Materials:
Body: Steel
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	
28373	1/8"	----
28374	1/4"	----
28375	3/8"	----
28376	1/2"	----
28377	3/4"	----
28378	1"	----

ALUMINUM HIGH FLOW MUFFLER



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F
• Slit pattern
• Application: Used exhaust ports of Pneumatic valves or manifolds to reduce work area noise
• Construction: Aluminum body, 50 mesh self cleaning stainless steel screen corrosion resistant aluminum shell
• High flow & minimal back pressure

PART #	SIZE	
28367	1/8"	----
28368	1/4"	----
28369	3/8"	----
28370	1/2"	----
28371	3/4"	----
28372	1"	----

PLASTIC HIGH FLOW MUFFLER



Materials:
Body: Black Nylon
Element:50 Mesh Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 120°F

PART #	SIZE	
28363	1/8"	----
28364	1/4"	----
28365	3/8"	----
28366	1/2"	----

NIPPLE INLINE FILTER



Materials:
Body: Brass
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	
940845	1/8"	----
940846	1/4"	----
940847	3/8"	----
940848	1/2"	----

REPAIRABLE AIR/ OIL INLINE FILTER



Materials:
Body: Anodized Aluminum
Element: 40 Micron Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 200°F
• Application: Protect small air tools i.e. impact wrench grinders, screwdrivers and low pressure hydraulic applications
• Construction: All anodized, lightweight aluminum housing
• Can be installed directly before the air tool
• Features cleanable or replaceable 40 micron filter element

PART #	SIZE	
940840	1/8"	----
940841	1/4"	----
940842	3/8"	----
940843	1/2"	----
940844	3/4"	----

What you feel inside reflects on your face. So be happy and positive all the time.

- Sridevi

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MANIFOLDS

CHROME PLATED BRASS MANIFOLDS

• 1/4" inlet and outlets

PART #	DESCRIPTION	
28444	2 Port	----
28445	3 Port	----
28446	4 Port	----

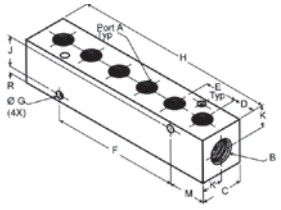
• 1/4" Inlet on each end



MANIFOLDS - ALUMINUM WITH BLACK ANODIZING

Materials:
Aluminum with black anodizing for corrosion resistance.
Specifications:
Max Operating Pressure: 1000PSI
Temperature: -10° to 200°F
Media: Air and liquids compatible with materials of construction.
• Ports column = # of ports in top of manifold





THREADED PORTS

Part #	Ports		A - out NPT	B - in NPT	C	D	E	F	G	H	J	K	M	R
28450	4	----	1/8"	1/4"	1.00	0.50	0.75	1.5	0.17	3.25	0.70	0.50	0.88	0.15
28452	6	----						3.00		4.75				
28456	10	----						6.00		7.75				
28457	2	----	1/4"	3/8"	1.25	0.63	0.88		0.20		0.89	0.63	1.06	0.18
28458	3	----						0.88		3.00				
28460	5	----						2.63		4.75				
28464	9	----						6.13		8.25				
28465	10	----						7.00		9.13				
28467	3	----	3/8"	3/8"	1.25	1.00	1.13	1.13	0.20	4.25	0.89	0.63	1.56	0.18
28468	4	----						2.25		5.38				
28469	5	----						3.38		6.50				
28470	6	----						4.50		7.63				

3 IN 1 ALUMINUM AIR MANIFOLD

No need to connect and disconnect every time you want to change tools. Supply 3 air tools from one outlet. These manifolds have one inlet with three 1/4 outlets.



PART #	SIZE	
320120	1/4" Inlet	----
320121	3/8" Inlet	----
320122	1/2" Inlet	----
three 1/4" Outlets		

AIR REGULATOR

- Rated for Inlet Pressrue up to 140PSI(10bar).
- Ambient and Fluid Tempreature:5~60°C(41~140°F)
- Port Threads:NPT
- Flow Capacity:See Below,at 0.7Mpa Inlet Pressure and set at 0.5Mpa.
- Assembly Bracket is included.



PART #	SIZE	GAUGE PORT	REGULATING RANGE	
AR2	1/4"	1/8	0.05~0.85Mpa(0.5~8.5kgf/cm2)(7.25psi~123psi)	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAFETY VALVES

ASME CODED

• Valves are manufactured to ASME standards and certified by the national board of boiler and pressure vessel inspectors.
• Bubble tight to 10% of set pop-off pressure.
• ASME safety valves are interchangeable with all other ASME valves of same size and pressure.
• Brass construction. Marked ASME, NB
• 1/ Blister card.



PART #	MALE NPT	POP-OFF PRESSURE	AIR FLOW	
87001	1/4"	70 PSI	70 CFM	----
87002	1/4"	125 PSI	120 CFM	----
87003	1/4"	150 PSI	140 CFM	----
87004	1/4"	200 PSI	170 CFM	----

Note: Valve resets after pressure drops 50%

NON-CODED SAFETY RELIEF VALVES

• Non-coded safety valves are constructed of the same materials as the AMSE safety valves but are not national board certified and cannot be used on applications requiring ASME components.
• Valves are equipped with a lift ring for instant relief and are staked at the factory at the pre set pop-off pressure.
• Marked ASME, UV, NB



PART #	MALE NPT	POP-OFF PRESSURE	
87008	1/4"	125 PSI	----
87009	1/4"	150 PSI	----

Warning: These valves are not to be used on compressors with a capacity over 15 CFM or 3 HP or 12 gallon storage tank.

COMPRESSOR TANK CHECK VALVES

• Used in compressor tanks to prevent air volume and pressure from escaping back into compressor heads while the compressor is not operating.
• Brass body with Teflon poppet.
• 1/8" Female NPT side port for pressure switch application.
• Maximum working pressure: 450 PSI
• Maximum temperature: 400°F





PART #	TANK BUNG HOLE SIZE	COMPRESSOR AIR LINE SIZE	SCFM	
87020	1/2" NPT Male	3/8" Tube Compression male	20	----
87021	1/2" NPT Male	1/2" Tube Compression male	20	----
87023	1/2" NPT Male	1/2" NPT Female	20	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TANK VALVES

MULTI-PURPOSE AIR VENT



PART #	SIZE	
46048	1/8"	----
46048S*	1/8" SS	----

#303 SS 705

BRASS BICYCLE PUMP FITTING

Screw on swivel chuck for most hand operated tire pumps.
Buna-N-Seal • Deflator

INT x 3/16 Barb



PART #	SIZE	
32782	3/16"	----

INFLATOR

INT x 3/16



PART #	SIZE	
32783	3/16"	----

PNEUMATIC SLIDE VALVE

- Max Operating Pressure: 200 psig
- Temperatures:-20°F to +200°F

Manually operated slide valves provide simple on/off airflow control. They can be mounted horizontally, vertically or at any angle.

Open Position



MALE X FEMALE

PART #	SIZE	L	HEX	
20780	1/8"	2.15	9/16"	----

INT = Inflation needle thread .305 in. OD x 32 threads per inch
(see page 371)

TANK & VENT VALVES

Three standard styles of valve bodies, complete with short core, for air lifts, water pumps, vacuum, pressurized containers, air jacks, and other pneumatic devices.
REGULAR: 300 PSI and cracking pressure 80 PSI

1/8" NPT - .9" LONG SPRING CORE

7/16" Hex 1/8 x INT



PART #	SIZE	
46620	1/8	----

1/8" NPT 1.207"LONG SPRING CORE

7/16" Hex 1/8 x INT



PART #	SIZE	
46621	1/8	----

1/4" NPT 1.46" LONG SPRING CORE

9/16" Hex w/ Black cap 1/4 x INT



PART #	SIZE	
46622	1/4	----

TANK VALVE ACCESSORIES

BLACK PLASTIC CAP

No gasket



Inflation needle theads

PART #	
46630	----

SHORT NICKEL PLATED DOME CAP

Dome skirted type



Inflation needle thead

PART #	
46631	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPACT BLOW GUN W/RUBBER TIP

- Includes One Rubber Tip and One Safety Tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA requirement
- Maximum 87 dba
- 1/8" Outlet



PART #	SIZE	
320053	1/4"	----

SAFETY BLOW GUN

- Heavy-Duty Design
- Internal Safety Valve that Limits Air Pressure to Less than 30 psi When dead-ended per OSHA
- Aluminium Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba
- 1/8" Outlet

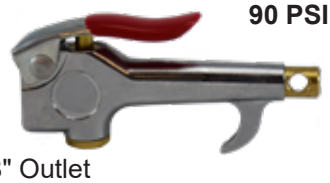


PART #	SIZE	
320054	1/4"	----

SAFETY BLOW GUN

- N/P steel handle with plastic sleeve
- Brass Valve
- Zinc body
- Aluminum nozzle

90 PSI



1/8" Outlet

PART #	SIZE	
320050	1/4" Inlet	----

5114 51-124 401 20430AD S148 D204-30 6475

COMPACT BLOW GUN

- With standard tip and safety tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba



PART #	SIZE	
320055	1/4"	----

PISTOL GRIP BLOW GUN

- Lightweight, Ergonomic Design
- Delrin® Body
- Trigger Air Flow Control
- 1/4" FPT Inlet
- 3" Nozzle Ideal for Tight Spaces
- Recommended Working Pressure 90-120 psi
- Maximum 87 Dba



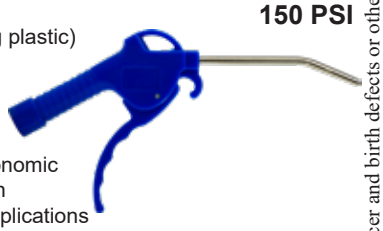
PART #	SIZE	
320036	1/4"	----

PISTOL GRIP BLO-GUN

150 PSI

Material
- Body: POM (engineering plastic)
- Nozzle: nickel plated carbon steel
- Blue Handle Color

Features
- Simple construction, economic
- Global thread connection
- Durable and versatile applications
- 4 inch nozzle



PART #	SIZE	
320035	1/4"	----

RUBBER TIPPED NOZZLE



MAKES POSITIVE SEAL BETWEEN GUN AND FUEL LINE OR OTHER OPENINGS. USE ONLY ON AIR

PART #	THREAD SIZE	
320070	1/8 - 27	----

51-521 2058 D201RT 411R

HIGH FLOW SAFETY NOZZLE



MEETS OSHA REGULATIONS OF 30 PSI MAXIMUM OUTLET PRESSURE WHEN LINE PRESSURE IS 150 PSI OR LESS. HAS AN AIR PRESSURE BYPASS WHICH PREVENTS BUILD UP OF TIP PRESSURE EVEN IF NOZZLE IS BLOCKED. ADAPTS TO ANY BLOW GUN WITH A 1/8" NPT NOZZLE PORT

PART #	SIZE	
320075	1/8 MIP x Female Neelde Thread	----

51-338 SST10 411BT 2056

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TIRE GAUGES

M - TIRE GAUGE

320-021 

HEAVY DUTY DUAL FOOT TIRE GAUGE

320-022 

DUAL ANGLE FOOT TRUCK PENCIL GAUGE

320-023 

PART #	PRESSURE RANGE	INCREMENT	HEAD	BODY	BAR(PSI/KPA)	
320021	20-120psi	2 psi	Metal	Metal	4 sided plastic	----
320022	10-120psi	2 psi	Plastic	Metal	4 sided plastic	----
320023	20-120psi	2 psi	Metal	Metal	4 sided plastic	----

INFLATION NEEDLE



• See thread note below

PART #	
320095	----

1 PIECE BLOW GUN TAPERED NOZZLE



PART #	SIZE	
320076	NT	----

1 PIECE BLOW GUN STANDARD NOZZLE



PART #	SIZE	
320077		----

VOLUME REGULATOR





PART #	FIP X MIP	
46615	1/4	----

What size thread is an inflation needle (INT)?
Metric: 7.7mm OD, thread reoot diameter is 6.9mm x 0.794 pitch
English: 0.305 OD, threadroot diameter 0.302 in x 32 tpi (threads per inch)

1 PIECE DIAL TIRE GAUGE



PART #	
320410	----

1 PIECE EXTENSION



PART #	SIZE	
320080	NT	----

1 PIECE BLOW GUN ADAPTER



PART #	SIZE	
320078	Female NT x 1/8 MPT	----

NYLON COIL AIR HOSE

- 200 psi working pressure
- 4:1 Safety factor (burst vs working pressure)
- Spring end sleeves to prevent kinking
- 1/4 MPT Brass fittings on both ends
- Temperature range 32°F to 120°F
- Packaged for retail sale





PART #	DESCRIPTION	SIZE	
307030	25'	1/4" NPT	----
307031	50'	1/4" NPT	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FOOT CHUCKS

HEX BALL FOOT CHUCK



PART #		
46600	1/4 FPT Live Air	----

MALE BALL FOOT CHUCK



PART #		
46605	1/4 MIP Live Air	----

BALL FOOT CHUCK W/ 1/4 ID HOSE BARB



PART #		
46607	1/4 ID Live Air	----

DUAL HEAD STRAIGHT AIR CHUCK



DUAL HEAD AIR CHUCK 1/4"FNPT,THE LENGTH IS 6.08",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		
320000	1/4	----

DUAL HEAD ANGLE FOOT AIR CHUCK



DUAL HEAD STRAIGHT FOOT AIR CHUCK 1/4"FNPT FOR INNER DUALS;BOTH ENDS LOCK ON VALVE CORE THREADS,THE LENGTH IS 6.66",THE HEAD IS ZINC-ALLOY,AND THE NUT IS

PART #		
320005	1/4	----

INFLATORS WITH GAUGE

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- SOLID BRASS GAUGE BAR
- BUILT-IN AIR RELIEF VALVE



320-010

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- EASY TO VIEW BUILT-IN SIGHT GAUGE
- FULL SWIVEL HOSE FITTINGS
- PROTECTIVE RUBBER BUMPER
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK



320-011

PART #	PRESSURE RANGE	INCREMENT	INLET	HOSE LENGTH	
320010	10-120 psi	2 psi	1/4 FPT	12"	----
320011	10-120 psi	2 psi	1/4 FPT	12"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET
PNEUMATICS

16PCS-AIR ACCESSORY SET
PART# 87-400



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"FNPT industrial coupler	28540
2pcs-1/4"FNPT industrial plugs	28534
2pcs-1/4"MNPT industrial plugs	28546
1pc-1/4" male connector	28212
1pc-1/4" double female connector	28059
1pc-ball foot chuck	46600
1pc-blow gun	320050
1pc-dial tire gauge	320410
1pc-tapered rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
2pcs-inflation needles	320095
1pc-25ft. nylon recoil hose	307030

10PCS-AIR ACCESSORY SET
PART# 87-402



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"female connector	28059
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-ball foot chuck	46605
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095

7PCS-AIR ACCESSORY SET
PART# 87-404





LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-extension	320080
1pc-blow gun	320050
2pcs-inflation needles	320095

11PCS-AIR ACCESSORY SET
PART# 87-406



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun standard nozzle	320077
1pc-blow gun adapter	320078
1pc-hose&chuck assembly	320414
1pc-blow gun	320050
1pc-inflation needle	320095
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET
PNEUMATICS

17PCS-AIR ACCESSORY SET
PART# 87-408



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4" double female connector	50004
2pcs-1/4" double male connectors	54044
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun	320050
1pc-1/4" FNPT industrial coupler	28540S
2pcs-1/4" FNPT industrial plug	28534
4pcs-1/4" MNPT industrial plug	28546
2pcs-inflation needles	320095

12PCS-AIR ACCESSORY SET
PART# 87-410



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun rubber nozzle	320070
1pc-ball foot tire chuck	46600
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" MNPT industrial coupler	28552
2pcs-1/4"FNPT industrial plug	28534B
2pcs-1/4"MNPT industrail plug	28546B
1pc-inflation needle	320095

20PCS-AIR ACCESSORY SET
PART# 87-412



LIST PRICE: —



CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun rubber nozzle	320070
1pc-blow gun adapter	320078
1pc-1/4" double male connector	54044
1pc-1/4" double female connector	50004
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-thread seal tape	982107
1pc-blow gun	320050
2pcs-1/4"FNPT industrial coupler	28540S
2pcs-1/4"FNPT industrial plug	28534
3pcs-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095
1pc-1/4"x 25Ft coil Nylon hose	307030

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECT KITS
PNEUMATICS

1/4" X 1/4" NPT INDUSTRIAL 7PCS

PART# 87-414



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
2pc-1/4"x1/4" FNPT T I/M coupler	28540S
2pcs-1/4"x1/4" FNPT I/M plugs	28534
2pcs-1/4"x1/4"MNPT I/M plugs	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-416



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
4pc-1/4"X1/4" MNPT I/M plug	28546

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-418



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
1pc-1/4"x1/4"FNPT I/M plug	28534
1pc-1/4"X1/4" MNPT I/M plug	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 3PCS

PART# 87-420



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"x1/4" FNPT I/M coupler	28540S
1pc-1/4"x1/4" FNPT I/M plug	28534
1pc-1/4"x1/4" MNPT I/M plug	28546

3/8" X 1/4" NPT AUTOMOTIVE 5PCS KIT

PART# 87-422



LIST PRICE: —

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-3/8"x1/4" FNPT Automotive coupler	28525S
2pcs-3/8"x1/4"MNPT Automotive plugs	28512
1pc-double 1/4"MNPT fitting	28212
1pc-double 1/4"FNPT fitting	28059

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAUGES

STANDARD DRY GAUGES

STEEL CASE

All the gauges supplied by us. are designed for long, reliable service under rugged conditions.
Typical applications include compressors, filter regulators, water pumps, beverage dispensing equipment, hydraulic and pneumatic systems, and other applications, where the media does not corrode brass. ALL CONNECTIONS ARE BRASS.

LOWER MOUNT

• Plastic lens (window)



1-1/2" FACE
1/8" NPT LOWER MOUNT

PART #	PSI	
80501	0-15	----
80502	0-30	----
80503	0-60	----
80504	0-100	----
80505	0-160	----
80506	0-200	----



2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80001	0-15	----
80002	0-30	----
80003	0-60	----
80004	0-100	----
80005	0-160	----
80006	0-200	----
80007	0-300	----
80020	30-0 Vacuum	----



2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80031	0-15	----
80032	0-30	----
80033	0-60	----
80034	0-100	----
80035	0-160	----
80036	0-200	----

CENTER BACK MOUNT



1-1/2" FACE
1/8" NPT CENTER BACK MOUNT

PART #	PSI	
80511	0-15	----
80512	0-30	----
80513	0-60	----
80514	0-100	----
80515	0-160	----
80516	0-200	----



2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80301	0-15	----
80302	0-30	----
80303	0-60	----
80304	0-100	----
80305	0-160	----
80306	0-200	----
80307	0-300	----



2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80331	0-15	----
80332	0-30	----
80333	0-60	----
80334	0-100	----
80335	0-160	----
80336	0-200	----

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LIQUID FILLED GAUGES

STAINLESS CASE

Liquid filled gauges enhance the reliability and integrity of the measuring system for long periods. The glycerine filling helps dampen the effects of vibration and pulsation. It also lubricates the movement which extends the life of the gauge. ALL



1-1/2" FACE
1/8" LOWER MOUNT

PART #	PSI	
80601	0-15	----
80602	0-30	----
80603	0-60	----
80604	0-100	----
80605	0-160	----
80606	0-200	----

It's not the situation, but whether we react negative or respond positive to the situation that is important.

- Zig Ziglar



- Liquid Filled Gauges with a stainless case are used for protection in harsh environments.
- Stainless Steel Case
- Copper Alloy Wetted parts
- Polycarbonate window
- ± 1.5% of span accuracy
- Temp. Range -104°F to 158°F

2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	
80061	0-15	----
80062	0-30	----
80063	0-60	----
80064	0-100	----
80065	0-160	----
80066	0-200	----
80067	0-300	----
80068	0-400	----
80069	0-600	----
80100	0-1000	----
80101	0-1500	----
80102	0-2000	----
80103	0-3000	----
80104	0-5000	----
80105	0-10000	----
80080	30-0 Vacuum	----
80081	-30 to +30	----



4" FACE
1/4" LOWER MOUNT

PART #	PSI	
80463	0-100	----

CENTER BACK MOUNT



1-1/2" FACE
1/8" CENTER BACK MOUNT

PART #	PSI	
80611	0-15	----
80612	0-30	----
80613	0-60	----
80614	0-100	----
80615	0-160	----
80616	0-200	----



2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	
80201	0-15	----
80202	0-30	----
80204	0-60	----
80203	0-160	----
80205	0-100	----
80206	0-200	----
80207	0-300	----
80208	0-400	----
80209	0-600	----

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Water Test Gauge

**0-300 PSI DIAL
3/4" FEMALE HOSE
CONNECTION**



PART #	FACE SIZE	
991249	2"	----
991250	2-1/2"	----

Water Test Gauge w/Lazy Hand (Maximum pointer)

**2-1/2" GAUGE
0-300 PSI DIAL
3/4" FEMALE HOSE
CONNECTION**



Regular pressure hand pushes LAZY hand to peak operating or surge pressure point where it remains until you manually reset it. Excellent to determine if P/T valve is leaking from failure or if leaking is caused by surge of excessive pressures. (Attach gauge to Boiler Drain Valve overnight.) LAZY hand operates over entire gauge range of 0-300psi

PART #	
991251	----

GAS TEST GAUGE

Pressure test residential and commerical pipe systems



PART #	FACE SIZE	
GT15	0-15	----
GT30	0-30	----
GT60	0-60	----

BODY ONLY



PART #	FACE SIZE	
991259	3/4" FIP x 1/4" TAP	----

SYPHON

BRASS

Syphons protect instruments from effects of hot pressure media commonly used in steam applications



PART #	SIZE	
995210	1/4" 90°	----
995211	1/4" 180°	----
995212	1/4" 270°	----
995213	1/4" 360°	----

STEEL

Syphons protect instruments from effects of hot pressure media commonly used in steam applications



PART #	SIZE	
995214	1/4" 90°	----
995215	1/4" 180°	----
995216	1/4" 270°	----
995217	1/4" 360°	----

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TAPES/ SEALANT

PNEUMATICS

PTFE THREAD SEAL TAPE

- Density 0.4
- Thickness 3.5 MIL
- Meets MIL specs T-27730A



PART #	SIZE	CASE QTY	
982107	1/2" x 260"	500	----
982108	1/2" x 520"	500	----
982109	3/4" x 260"	350	----
982110	3/4" x 520"	350	----

POP OUT COVERED SPOOL

GREY STAINLESS STEEL

- Density 1.2
- Thickness 4MIL
- Meets MIL specs T-27730A & CID A-A 58092



PART #	SIZE	CASE QTY	
982135	1/2" x 260"	250	----
982136	1/2" x 520"	150	----
982137	3/4" x 260"	150	----
982138	3/4" x 520"	150	----

GREEN OXYGEN TAPE

- Density 1.2
- Thickness 3.5MIL
- Meets MIL specs T-27730A & CID A-A 58092



PART #	SIZE	CASE QTY	
982130	1/2" x 260"	250	----
982131	1/2" x 520"	150	----
982132	3/4" x 520"	150	----

PTFE BLUE SEAL TAPE

- Professional grade top -450 to +450°F
- Super long roll
- Twice the density of standard tape for less passes, lasts longer
- Density 0.8
- Thickness 3.5 MIL
- Meets MIL Spec T-27730A



PART #	SIZE	CASE QTY	
982120	1/2" x 1368"	250	----
982121	3/4" x 1368"	150	----
982122	1" x 1296"	150	----

YELLOW GAS LINE TAPE

- Density 0.9
- Thickness 4MIL
- Meets MIL specs T-27730A



PART #	SIZE	CASE QTY	
982125	1/2" x 260"	250	----
982126	1/2" x 520"	150	----

PVC ELECTRICAL TAPE

Rated to 176 degrees fahrenheit
Suitable for use up to 600V
UL Listed
Individually wrapped in cellophane



PART #	SIZE	
982140	3/4" X 60' Black	----

THREAD SEALANT

GASOILA SOFT-SET THREAD WITH PTFE



PART#	SIZE	UNITS PER CASE	
983100	1/4 pt. Brush	24	----
983101	1/2 pt. Brush	24	----

PLS 2 PREMIUM THREAD AND GASKET SEALER



PART#	SIZE	UNITS PER CASE	
983110	1/4 pt. Brush	12	----
983111	1 pt. Brush	6	----

GASOILA NT NON-PTFE THREAD SEALANT



PART#	SIZE	UNITS PER CASE	
983120	1/2 pt. Brush	12	----
983121	1 pt. Brush	6	----

JC-30 GASOILA HIGH-FILL



PART#	SIZE	UNITS PER CASE	
983115	1/4 pt. Brush	12	----
983116	1 pt. Brush	6	----

FREE ALL DEEP PENETRATING OIL



PART#	SIZE	UNITS PER CASE	
983125	6 oz. Aerosol	12	----
983126	11 oz. Aerosol	12	----

LUBE-IT ALL DEEP LUBRI-



PART#	SIZE	UNITS PER CASE	
983130	6 oz. Aerosol	12	----

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TRUCK AND TRAILER





INDUSTRY GRADE NYLON AIR COIL ASSEMBLY - SET

- Each kit contains one Emergency (Red) and one service (Blue) 1/2" O.D. nylon tubing assembly.
- 1/2" -14 NPTF end fitting with heavy gauge spring.
- Assemblies meet SAE J844 and DOT FMVSS 106 requirements.
- Temp rating -40° - +208°

PART #	LENGTH	PIGTAIL LENGTH TRACTOR END	PIGTAIL LENGTH TRAILER END	
39404	12'	6"	6"	----
39400	15'	12"	12"	----
39402	15'	40"	12"	----
39406	20'	12"	12"	----



FIFTH WHEEL SLIDER COIL

- Temperatures range -40 to 208°F
- 150 psi max pressure rating
- Meets SAE J844 and DOT FMVSS 106 requirements.
- (2) ¼" OD fittings assembled

PART #	DESCRIPTION	LENGTH	FITTINGS	
39839	5th Wheel slider coil	up to 54"	(2) 1/4" MPT	----
39838	5th Wheel slider coil	up to 72"	(2) 1/4" MPT	----



3-IN-1 AND 4-IN-1 COMBINATION AIRLINE CABLE

- (2) 3/8" ID SAE J1402 rubber service and emergency with blue (service) and red (emergency) gladhand grip handle
- Color-coded grip helps to minimize incorrect tractor/trailer connections have glad handle with Vibraseal
- ABS power line (green) – meets SAE J2222 requirements
- Auxiliary power line (yellow) – fitted with SAESS60 plugs that have an inverted (male) ground pin 4-in-1 only
- SAE J560 Plugs with sleeves for superior corrosion protection and strain relief
- Corrosion resistant all brass fittings 1/2" male NPT w/ Vibraseal
- Tapered grip flexes with airline during tight turns for kink protection
- Temp rating -40 - 208°F

PART #	DESCRIPTION	
39825	Combo 3 in 1 assembly 15 ft.	----
39962	Combo 4 in 1 assembly 15 ft.	----

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HOSE SUPPORT





AIRBRAKE HOSE REPAIR KIT

- Fittings to repair hose with a minimum 3/4" OD
- Meets DOT 106 SAE j1402
- Brass sleeve and barb
- Pre-applied sealant

PART #	DESCRIPTION	
39855	3/8" Quick fix hose fitting	----
*39856	3/8" Quick fix hose kit- clam pack	----
39857	1/2" Quick fix hose fitting	----

*Supplied with hex tool



39425



39426

POGO STICKS CANNISTER STYLE

- Large diameter housing eliminates spring binding
- Increased resistance to sagging and bending
- Thick gauge heavy duty spring
- Used for all nylon and rubber air brake hose
- Forged steel mounting stud 7/16-20 thread
- All Pogo Sticks include Eyebolt and Nut

PART #	SIZE	DESCRIPTION	
39425	40"	Chrome finish	----
39426	40"	Zinc Plated Steel	----



39409



39410



39411



39413



39416



39412

HOSE HOLDERS

- ABS Plastic
- 2, 3 and 4 Hold

PART #	SIZE	DESCRIPTION	
39409	1/2"	2-Hose Holder Hex Head	----
39410	1/2"	2-Hose Holder	----
39411	1/2"	3-Hose Holder	----
39413	1/2"	3-Hose Hex Head w Cable tie	----
39416	1/2"	4-Hose V Bolt w Cable Tie	----
39412	1/2"	4-Hose Holder	----



39415



39418

HOSE SEPARATORS

- ABS Plastic

PART #	SIZE	DESCRIPTION	
39414	3/8"	2-Hose Separator	----
39415	3/8"	4-Hose Separator	----
39418	1/2"	2-Hose Separator	----
39419	1/2"	4-Hose Separator	----

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39469


39472


39473


39411

TENDER KIT COMPONENTS

PART #	DESCRIPTION	
39411	3 hole holder	----
39469	Clip Carabiner	----
39472	1-1/2" ID Hanger Bracket	----
39473	Yoke	----

• Sold individually


39477


39471


39463

SPRING WITH TANDEM FRAME CLIP

- Steel spring and clip - yellow dichromate finish
- 3/4" OD
- Beam clip

PART #	DESCRIPTION	
39477	Frame Clip with Cable Tie	----

PART #	LENGTH	DESCRIPTION	
39463	6" Spring	Tandem frame clip	----
39464	3" Spring	Tandem frame clip	----
39471	Frame clip only		----


95631


95640

CLIPS

PART #	DESCRIPTION	
95631	ABS Clip for 1/2" Air Hose	----
95640	5" Axle Clip	----
95641	5-3/4" Axle Clip	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HOSE SUPPORT
TRUCK AND TRAILER



TENDER KIT

Complete Tender Kit includes:
- Large snap Clip
- Heavy duty spring
- Protective tube

PART #	SPRING & TUBE LENGTH/ #PCS	ONE CLIP	3 HOLE CLAMP	YOKE	
39442	16" / 1pc	1pc	1pc		----
39444	16" / 2 pcs	1pc	1pc	2pcs	----
39446	20"/ 1pc	1pc	1pc		----
39448	20"/ 2pcs	1pc	1pc	2pcs	----
39452	25" / 1pc	1pc	1pc		----
39453	25" / 2pcs	1pc	1pc	2pcs	----

HYDRAULIC TENDER KIT

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	HANGER BRACKET	YOKE	
39457	25" / 2pcs	1pcs	1pc	2pcs	----



SLIDER BAR KITS

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	3 HOLE CLAMP	SLIDER BAR LENGTH	YOKE	
39437	16" / 1pc	1pc	1pc	43"		----
39438	16" / 2pcs	1pc	1pc	43"	2pcs	----
39459	20"/ 2pcs	1pc	1pc	43"	2pcs	----
39460	25" / 1pc	1pc	1pc	43"		----
39461	25" / 2pcs	1pc	1pc	43"	2pcs	----
39470	16" / 1pc	1pc	1pc	38"		----
39462	16" / 2pcs	1pc	1pc	38"	2pcs	----
39451	25" / 1pc	1pc	1pc	38"		----
39454	25" / 2pcs	1pc	1pc	38"	2pcs	----



Spring & Tube



Slider Bar

BARS, SPRINGS, TUBES

PART #	SPRING & TUBE LENGTH/ #PCS	
39443	16" Tube only	----
39447	20" Tube only	----
39436	25" Tube only	----
39466	16" Spring only	----
39467	20" Spring only	----
39468	25" Spring only	----
39474	38" Slider Bar	----
39475	43" Slider Bar	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

GLADHANDS



PORT A

ALUMINUM GLADHANDS

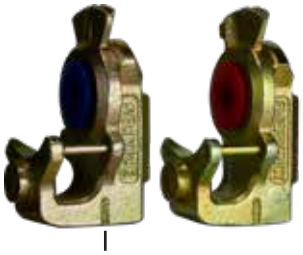
- **½ “ FPT port**
- Aluminum Casting
- Permanent Clamp Screw
- Black rubber seals
- Stainless Steel filter
- Meet SAE J318 requirements

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39870	Universal	Aluminum	Blk Rubber	No	1/2"	----
39871	Universal with filter	Aluminum	Blk Rubber	Yes	1/2"	----
39877	Emergency Red	Aluminum	Blk Rubber	No	1/2"	----
39878	Emergency with filter	Aluminum	Blk Rubber	Yes	1/2"	----
39874	Service Blue	Aluminum	Blk Rubber	No	1/2"	----
39875	Service with filter	Aluminum	Blk Rubber	Yes	1/2"	----



PLATED ALUMINUM GLADHANDS

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39832	Universal Standard	Plated Aluminum	Blk Rubber	No	1/2"	----
39833	Service - Blue	Plated Aluminum	Blk Rubber	No	1/2"	----
39834	Emergency - Red	Plated Aluminum	Blk Rubber	No	1/2"	----
39828	Service 38 degree	Plated Aluminum	Blk Rubber	No	1/2"	----
39829	Emergency 38 drgree	Plated Aluminum	Blk Rubber	No	1/2"	----
39830	Service 38 degree	Plated Aluminum	Blk Rubber	No	3/8"	----
39831	Emergency 38 drgree	Plated Aluminum	Blk Rubber	No	3/8"	----



PORT A

CAST IRON GLADHANDS

- **½ “ FPT port**
- One-piece casting eliminates problems with clamp separation
- “Positive-stop” post, assures a perfect connection
- Polyurethane seal resist oils, chemicals & provide improved sealing & service life
- Gladhands meet SAE J318 requirements including breakaway requirement.

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	
39506	Universal	Cast Iron	Black Polyurethane	No	1/2"	----
39507	Emergency	Cast Iron	Red Polyurethane	No	1/2"	----
39508	Service	Cast Iron	Blue Polyurethane	No	1/2"	----



PORT A

PORT B

ANGLE MOUNT ALUMINUM GLADHANDS

- For use in trailer mounting locations
- Dual port provides connection options
- Powder-coated clamp plates are color coded for easy identification
- Port "A" comes standard as unplugged
- (2) 3/8 inch FPT Ports (one plugged).
- (2) 11/32 inch diameter mounting holes.
- Available with Port "B" plugged or unplugged (plug is included, loose in bag)
- Meet SAE J318

PART #	TYPE	MATERIAL	SEAL	FILTER	PORT A	PORT B	
39511	Emergency	Aluminum	Blk Rubber	No	Unplugged	Plugged	----
39512	Service	Aluminum	Blk Rubber	No	Unplugged	Plugged	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POWDER COATED IRON GLADHAND



- Tough powder coating improves wear & corrosion resistance
- Vividly colored to provide improved identification of service & emergency lines
- Stainless steel plate eliminates corrosion of the mating surface
- Polyurethane seal resist oil, chemicals, provide improved sealing & service life
- Meet or exceeds SAE J318 standard

PART #	DESCRIPTION	FILTER	PORT A	
39509	Service with blue poly seal	Yes	1/2"	----
39510	Emergency with red poly seal	Yes	1/2"	----

BRACKET MOUNT SWING AWAY GLADHAND



- Bracket allows 180° rotation allowing for easy hookups, eliminating the need to twist lines during connections
- Helps protect rear-trailer gladhands when not in use
- Filter and closed seal are recommended
- Spring design provides consistent tension throughout rotation
- Design provides both back port and bottom port capabilities
  Gladhand mount - 1/2" Male Thread

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	
39515	Service (Blue)	Aluminum	Blk Rubber	yes	----
39516	Emergency (Red)	Aluminum	Blk Rubber	yes	----

KNOB STYLE SHUTOFF GLADHAND



- Economical trailer shutoff gladhand
- Centered low-profile “snap-stop” knob
- Full face rubber seal
- Available with assembled or separate fittings.
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	
39520	1/2" Service (Blue)	Aluminum	Blk Rubber	No	----
39521	3/8" Service (Blue)	Aluminum	Blk Rubber	No	----
39522	1/2" Emergency (Red)	Aluminum	Blk Rubber	No	----
39524	3/8" Emergency (Red)	Aluminum	Blk Rubber	No	----

LEVER STYLE SHUTOFF GLADHAND



- Flange mount
- Metel handle shutoff
- Full face rubber seal
- Tough metal Ball valve
- Color coded
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A NPT	PORT B NPT	
39531	Emergency (Red)	Aluminum	Blk Rubber	No	3/8"	1/4"	----
39530	Service (Blue)	Aluminum	Blk Rubber	No	3/8"	1/4"	----

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GLADHAND GRIPS

1/2" NPTF.

- Comes with hardware and sealant
- Color-coded red and blue for easy air line identification - clamshell
- Handles are heat, oil and UV-resistant.
- Meet SAE J318

PART #	DESCRIPTION	
39535	Poly grip hardware	----



ALUMINUM GLADHAND GRIPS

- 1/2" NPTF
- Each pack contains (1) red and (1) blue - clamshell
- One piece design
- No screws or plastic parts
- Easy to install
- Class II anodized coating provides greater corrosion resistance

PART #	DESCRIPTION	
39537	Sure grip	----



GLADHAND PACIFIER SEAL

- Seals Gladhand from moisture, dirt and debris

PART #	DESCRIPTION	
39566	Gladhand pacifier	----



GLADHAND SEALS

Seal Options:

- Rubber
- Polyurethane
- With screen filter
- Double lip
- Filter screen only

PART #	DESCRIPTION	
39541	Blue, Polyurethane	----
39542	Red, Polyurethane	----
39543	Black, Polyurethane	----
39556	Blue with a screen filter Polyurethane	----
39557	Red with a screen filter Polyurethane	----
39558	Black with a screen filter Polyurethane	----
39550	Blue Double lip, Polyurethane	----
39551	Red Double Lips, Polyurethane	----
39552	Double Lip, Polyurethane	----
39544	Grey, Closed Style, Polyurethane	----
39560	Filter, Screen, Gladhand	----
39559	Filter, Screen, Gladhand	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



39565

DUMMY GLADHAND COUPLING KIT

• 6 ½" coupling length

PART #	CONNECTION	VENT	MATERIAL	
39563	Chain	Yes	Steel Yellow Zinc plated	----
39564	Chain	No	Steel Yellow Zinc plated	----
39565	Cable	N/A	Aluminum	----



39574 39575

NYLON GLADHAND AND PLUG HOLDER

• Stores Gladhand and electrical hook ups at a 45° angle.
• Can accept heavy ABS plug
• Standard mounting holes to install on back of cab.
• Glass-filled nylon, non-corrosive construction.

PART #	DESCRIPTION	
39574	1 plug slot	----
39575	2 plug slot	----



GLADHAND HOLDER KIT

• Steel - Zinc Yellow Dichromate
• Holds gladhands when disconnected

PART #	DESCRIPTION	
39573	Holder Kit	----
39572	Bracket only	----



GLADHAND LOCK

• Red molded plastic
• Prevents unwanted connections with trailers
• Protects idle units
• Universal for Aluminum and Iron Gladhands
• Supplied with 2-keys

PART #	DESCRIPTION	
39570	Gladhand Lock w/ 2 keys	----

**** Not an Anti theft device***



KING PIN LOCK-ANTI HOOK UP

• Cast, Zinc plated
• Anti-tractor, trailer hook-up
• Supplied with 2 keys

PART #	DESCRIPTION	
39860	King Pin Lock w/ 2 keys	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR CYLINDER



- 300 series stainless steel cylinder shafts provide excellent corrosion resistance and extended cycle life -cylinders tested to over 500,000 cycles.
- Lightweight, corrosion resistant aluminum tube with die cast aluminum end caps.
- Rear clevis cast as integral part of the rear cover for improved durability and mounting integrity.
- Double acting, Emralon-coated piston cup assures smooth long lasting operation even in cold weather conditions to (- 40°F).
- Front end cap assembly includes pressure seal, dirt seal and oil impregnated bronze bushing.
- Cylinder tube imprinted with part number and date code for quick identification.
- All cylinders are factory pressure and leak tested prior to shipping.
- Front Cover Kit-Includes front cover with bushing and seals installed and two cylinder gaskets.
- Rear Cover Kit-Includes rear cover with two cylinder gaskets.
- Piston Cup Kit-Includes piston cup, lock nut and two cylinder gaskets.
- Shaft Kit-Includes shaft, lock nut and two cylinder gaskets.

PART #	SIZE	STROKE	RETRACTED	EXTENDED	TYPE	
39672	2 1/2"	4.0"	9.89"	13.89"	push/pull	----
39673	2 1/2"	6.0"	11.89"	17.89"	push/pull	----
39674	2 1/2"	8.0"	13.89"	21.89"	push/pull	----
39675	2 1/2"	6.0"	13.75"	19.75"	Spring return	----
39676	3 1/2"	8.0"	15.60"	24.28"	push/pull	----
39677	3 1/2"	10.0"	16.92"	26.95"	push/pull	----



HIGH LIFT AIR CYLINDERS

- Aluminum tube with 16 RMS finish
- Temp rating -40 to 185°F
- Recommended working pressure 150 psi
- Minimum bursting pressure 150 psi
- 1275 lb. thrust at 100 psi
- 1158 lb. draw at 100 psi

PART #	DIA.	STROKE	RETRACTED	EXTENDED	TYPE	
39654	4"	24"	34.5"	58.5"	push/pull	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TAILGATE AIR CYLINDERS

- Die cast aluminum with mount hole for ½" pin and ¼" NPT port
- Molded piston cup
- Stainless steel piston rod with 5/8" – 18 thread
- 10 PSI – 120 PSI
- 10 psi min-120 psi max



39657 39660

PART #	DIA.	STROKE	LENGTH	TYPE	
39655	2-1/2"	4.0"	13.37	Push/Pull	----
39656	2-1/2"	6.0"	17.37	Push/Pull	----
39657	2-1/2"	8.0"	21.37	Push/Pull	----
39658	2-1/2"	4.0"	14.71	Spring Ret	----
39659	2-1/2"	6.0"	19.75	Spring Ret	----
39660	3-1/2"	6.0"	20.23	Push/Pull	----
39661	3-1/2"	8.0"	24.23	Push/Pull	----
39662	3-1/2"	8.0"	26.98	Push/Pull	----
39663	3-1/2"	10.0"	28.98	Push/Pull	----

TAILGATE AIR CYLINDERS

- Machined aluminum, 5/8" diameter ,stainless steel shaft with 5/8" - 18 threads, "O" rings and a UHMW polyethylene wear band
- Direct replacements to Haldex and MGM
- Standard operating pressure 100 psi
- 90psi min to 150 psi max



39665 39667

PART #	DIA.	STROKE	BRACKET	TYPE	
39665	6"	3"	Yes	Spring Ret	----
39667	6"	4.38"	No	Spring Ret	----

FIFTH WHEEL AIR CYLINDER



- 1/4" FPT port cast aluminum front and rear
- 2-1/2" Bore
- 6-3/4" stroke
- Front and rear mounting hole for 17/32" clevis,
- 100 psi
- Gold anodized tube for corrosion resistance

PART #	DESCRIPTION	
39669	Fifth Wheel Air Cylinder	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR TANK DRAIN PULL VALVE



PART #	SIZE	DESCRIPTION	
39595	1/4" male	5ft nylon coated pull cable	----
39596	1/4" male	4ft nylon coated pull cable	----
39597	1/4" male	3ft nylon coated pull cable	----
39600	1/4" male	Air valve only	----

AIR TANK CHECK VALVE



- Single check valves allow air to pass from a single source to its destination, and prevent air travel in the opposite direction.

PART #	MALE X FEMALE	
39604	1/4"	----
39605	3/8"	----
39606	1/2"	----

D-2 STYLE AIR BRAKE GOVERNOR



- Opening and closing pressures of 100 to 120 psi
- High temperature O-ring construction
- Gasket and plugs included
- Replaces Bendix 275491 & KN18530

PART #	THREAD	DESCRIPTION	
39592	6-1/8" NPT	Air Brake Governors D-2 style	----

IN-LINE QUICK RELEASE VALVE



- Quick release for the air brake system
- 3/8” female exhaust port
- 2-3/8” female delivery port
- Cracking pressure: 1 PSI
- Helps meet the FMVSS -121 requirement for timing

PART #	DESCRIPTION	
39610*	3/8" NPT In-Line quick release valve	----
39611**	1/2" NPT In-Line quick release valve	----

* Replaces Bendix 229859, 288351 & KN32005
** Replaces Bendix 229860 & KN32011

R-12 RELAY VALVE



- ¼” Relay Valve with multiple delivery ports

Replaces Bendix 102166, 102626, 103009

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	
39613	1/2" NPT	4, 1/2"NPT	4 psi no Bracket	----
39614	1/2" NPT	4, 1/2"NPT	4 psi Relay Valve	----
39615	3/4" NPT	2, 1/2" NPT	4 psi Relay Valve	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



R-14 RELAY VALVE

- ¼" Relay Valve with two delivery and supply ports
- Replaces Bendix 103010

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION	
39616	2-3/4"NPT	2-1/2"NPT	4 psi Relay Valve	----



THREE WAY SOLENOID

- Operates a minimum GF 50,000 cycles
- Inlet port normally closed
- Must be mounted vertically with the air inlet port facing up
- 1/4" female NPT ports
- 12 Volts
- 100-120 psi operating pressure
- Attached mounting bracket with two 9/32" diameter mounting holes on 2-1/2" centers

PART #	SUPPLY PORT	DESCRIPTION	
39684	2, 1/4" FPT	Three way Solenoid	----



UNIVERSAL SOLENOID

- Operates a minimum of 50,000 cycles.
- 125 amps at 12 volts.
- Continuous voltage.
- One on/off circuit
- 5/16 inch side studs, No. 10 top stud(s).
- 2 1/8 on Center
- 5/16 x 19/32
- Hardware included.
- Normally open

PART #	DESCRIPTION	
39687	4 stud Solenoid	----
39688	3 stud Solenoid	----



AIR SOLENOID VALVE

- Operates a minimum of 50,000 cycles.
- 100 psi max pressure.
- 1/4" Thread
- 10 Watts, 12 VDC
- Replaces Neway 90054075

PART #	DESCRIPTION	
39689	12V Closed	----
39690	12V Open	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

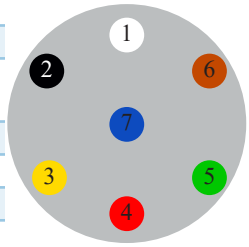
COILED CABLE



SEVEN-WAY COILED CABLE ASSEMBLIES

- ABS assemblies are heavy duty to power trailers
- HD Green gives clear ABS identification
- Resists abrasion, great coil retention
- Heavy duty plugs with spring guards
- ABS Cable meets SAE J2394
- Operating temperature range of -55° to +185°F

PIN LOCATION	COLOR CODE	GAUGE	CIRCUIT
1	White	8	Ground
2	Black	12	Clearance, side and ID lamps
3	Yellow	12	Left turn and Hazard
4	Red	10	Stop lamp and Anti-lock
5	Green	12	Right turn and Hazard
6	Brown	12	Tail and Plate lamp



ABS

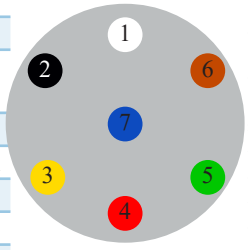
PART #	LENGTH	DESCRIPTION	
39736	12'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	----
39737	15'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green	----

SEVEN-WAY COILED CABLE BLACK

- This high quality, durable construction is recommended for single-trailer configurations using standard lighting on non-ABS vehicles.
- Durable black outer jacket with heavy duty zinc die cast plugs and two spring guards included.



PIN	COLOR CODE	HD GAUGE	ECO GAUGE	CIRCUIT
1	White	10	12	Ground
2	Black	12	14	Clearance, side and ID lamps
3	Yellow	12	14	Left turn and Hazard
4	Red	12	14	Stop lamp and Anti-lock
5	Green	12	14	Right turn and Hazard
6	Brown	12	14	Tail and Plate lamp
7	Blue	12	14	ABS Power Aux



STANDARD - HEAVY DUTY

PART #	LENGTH	DESCRIPTION	
39738	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----
39739	15'	Coiled Electrical Cord, w/15 in lead, w/plugs, Black	----

STANDARD - ECONOMY

PART #	LENGTH	DESCRIPTION	
39740	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----
39741	15'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SIX WAY COILED ELECTRIC CABLE ASSEMBLY



- 6', 8', 12' Length
- Includes 2 Thermoseal 6-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- 4/14 Gauge cable
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39752	6ft, 14awg w/12" Lead at 2 ends	----
39753	8 ft, 14awg w/12" Lead at 2 ends	----
39754	12ft,14awg w/12" Lead at 2 ends	----

FOUR WAY COILED ELECTRIC CABLE ASSEMBLY



- 4/14 Gauge cable
- 12' & 15' length
- Includes 2 Thermoseal 4-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39748	12' with 12" Lead, both ends 4/14awg	----
39749	15' with 12" Lead, both ends 4/14awg	----

DUEL POLE COILED ELECTRIC CABLE ASSEMBLY



- Black Jacket
- 12' & 15' length
- 200 Amp at 12 VDC.
- Zinc die cast plugs.
- 4 gauge cable.

PART #	DESCRIPTION	
39744	12' Coil With 12" Lead at 2 ends 4awg	----
39745	15' Coil With 12" Lead at 2 ends 4awg	----

SINGLE POLE COILED ELECTRIC CABLE ASSEMBLY



- Black Jacket
- 12' & 15' length
- For applications that require direct electrical power to trailer lift gates.
- Rated at 265 amps on/off service (30 seconds on/50 seconds off).
- Zinc die cast plugs with spring guards included.
- 4 gauge cable.

PART #	DESCRIPTION	
39742	12' Coil With 12" Lead both ends 4awg	----
39743	15' Coil With 12" Lead both ends 4awg	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

7 WAY PLUGS AND SOCKETS



39758



39757



39772











- Heavy-duty, nickel-plated zinc die cast housings
- Brass terminal pins for maximum current carrying ability
- Field repairable with standard tools
- Fully interchangeable with other SAE-type, 7-way connectors
- ATA marked wire terminals.
- Internal clamp holds cable securely in place.
- Standard seven-way plugs meet ATA and SAE J560 requirements
- ISO plugs meet ISO 3731:1997 requirements.
- ISO socket prevents connections with Non-ISO plugs - Used in tractor/ trailer systems
- ISO color-coded yellow, non-corrosive reinforced nylon housing.

PLUGS

PART #	DESCRIPTION	
39757	7-Way Single Grip Plug w/Spring Guard	----
39758	7-Way Single Grip Plug NO Spring.	----
39772	7-Way Double Grip Plug w/Spring.	----
39773	7-Way Double Grip Plug NO Spring Guard	----
39788	7-way ISO plug	----

SOCKETS

PART #	DESCRIPTION	
39774	Solid Pin 7-Way Metal Socket	----
39775	Split Pin 7-Way Metal Socket	----
39789	7-way, ISO socket	----

7 WAY DOUBLE GRIP PLUG

- T-Grip weather guard
- Plastic grip

PART #	DESCRIPTION	
39818	7-Way Double Grip Plug, Plastic	----

6 AND 7 WAY ADAPTER

PART #	DESCRIPTION	
39786	Seven way plug to Six Way Socket Adapter	----
39787	Six way plug to Seven Way socket Adapter	----

RV 7-WAY PLUG

- Primarily used in RV applications.
- Constructed of molded PVC for impact resistance
- Blade Style Pin

PART #	DESCRIPTION	
39819	7-way Plastic plug	----

RV 7-WAY SOCKET

- RV Screw-type socket
- 6-24 VDC.
- Mounting 2-1/4" inch on center .
- Constructed of molded PVC

PART #	DESCRIPTION	
39820	7-way socket	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



6 - WAY PLUGS AND SOCKETS

PART #	DESCRIPTION	
39782	6-Way Double Grip Metal Plug w/Spring Guard.	----
39783	6-Way Metal Socket.	----

4 WAY PLUGS AND SOCKETS



- Heavy-duty zinc die cast housings on plugs and sockets.
- Plug locking system works with socket door to ensure proper hookup and prevent unintentional disconnections.
- Spring guard supports and protects cable.

4 - WAY

PART #	DESCRIPTION	
39778	4-Way Double Grip Metal Plug w/Spring Guard.	----
39779	4-Way Metal Socket.	----

2 POLE PLUGS AND SOCKETS



- 200 amp 4 gauge wire capacity.
- Heavy-duty zinc die cast housing.
- Internal ground.
- Spring guard supports and protects cable.

PART #	DESCRIPTION	
39768	2 Pole Double Grip Metal Plug w/Spring Guard.	----
39769	2 Pole Metal Socket	----

SINGLE POLE PLUGS AND SOCKETS



- Used to provide power to heavy draw auxiliary trailer equipment.
- Heavy-duty zinc die cast housings.
- Power and ground terminals hold up to 1/0 gauge wire.

PART #	DESCRIPTION	
39764	1-Way Double Grip Plug w/Spring Guard.	----
39765	1-Way Double Grip Plug w/Spring Guard and Ground Kit	----
39766	1-Way Metal Socket	----

GROUND KIT



PART #	DESCRIPTION	
39809	Ground Kit (Bolt, Nut and Wire Lug) for 1-Way Plug or Socket	----

PROTECTOR BOOT FOR PLUG



- Protective rubber boot seals out moisture and contaminants

PART #	DESCRIPTION	
39807	Protector Boot	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

7 WAY SOCKET WITH CIRCUIT BREAKER



- Non-corrosive, reinforced nylon housing for added durability.
- Designed for No. 8 ring terminals.
- ATA color-coded contacts.
- Solid brass split pins are zinc-plated for corrosion resistance.
- Each socket includes automatic reset circuit breakers with positive snap action to eliminate arcing (unless otherwise noted).
- Mounting holes are 4 1/2 inch on center and include steel bushings for added housing protection.
- Adhesive-backed mounting gasket included.
- Circuit breaker sockets meet SAE J560 requirements.

PART #	DESCRIPTION	
39792	No circuit breakers	----
39793	15amp Plastic with circuit breakers	----
39794	20amp Plastic with circuit breakers	----
39795	30amp Plastic with circuit breakers	----

7 WAY CIRCUIT CHASER



- Instantly finds short or faulty circuits
- Portable

PART #	DESCRIPTION	
39805	7 way circuit	----

CIRCUIT BREAKERS - PLASTIC



- Colored Battery molded Stud
- 12 Volt
- Meets SAE j553 requirements
- Nuts included

PART #	DESCRIPTION	
39800	15 AMP	----
39801	20 AMP	----
39802	25 AMP	----
39803	30 AMP	----

NOSE BOX - DEEP



- Zinc - extra deep

PART #	DESCRIPTION	
39814	Deep Nose Box	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BATTERY GROUND STRAP



- 4 gauge wire.
- Molded zinc-plated steel lugs and tin-plated copper stranding.
- 7/16 inch diameter bolt hole.
- 12" Long

PART #	DESCRIPTION	
39712	12", 4 Gauge ground strap	----

STAINLESS STEEL BATTERY NUT



PART #	TYPE	
39713	3/8"	----

RUBBER GROMMET

- Black Rubber



PART #	ID	OD	
95450	5/16"	9/16"	----
95451	5/8"	1 1/4"	----
95452	3/4"	1 3/4"	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov

ACCESSORIES



DEER WHISTLES

- Produces two separate and unique frequencies
- High output airflow activated
- Can be removed from base for cleaning and car washes
- Mounts with high bond tape **(included)**
- Lowers risk for vehicle-animal collisions

PART #	DESCRIPTION	
39465	2 pack whistle	----



CABLE TIE STRAPS - NYLON

- Used to secure and bundle
- CSA Certified
- RoHs Compliant
- UV or Standard

STANDARD

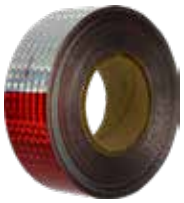
PART #	LENGTH	STRENGTH	PACKAGE QTY	
95601	7 1/2"	50lb	100	----
95602	11"	50 lb	100	----
95603	14.5"	50 lb	100	----
95604	24"	175 lb	50	----
95605	36"	175lb	50	----
95606	48"	175 lb	50	----

UV BLACK

PART #	LENGTH	STRENGTH	PACKAGE QTY	
95610	7 1/2"	50lb	100	----
95611	14"	50 lb	100	----
95612	24"	175lb	50	----
95613	36"	175lb	50	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ACCESSORIES
TRUCK AND TRAILER



95620







CONSPICUITY TAPE

Tape is designed for trucks, trailers, and other vehicles for easy nighttime vehicle recognition and increased road safety. It is a high quality, durable microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing. Conspicuity tape provides superior reflectivity and may help reduce accidents.

- DOT -C2 Certified
- Meets or exceeds NHTSA, FMVSS 108 & ASTM D4956
- Meets Canada TSD 108
- 10 year durability

PART #	DESCRIPTION	APP. WT.	
95620	2" x 150' Roll of 11" Red / 7" White	0.32	----
95621	2" x 150' Roll of 6" Red / 6" White	0.32	----
95622	2" x 150' Roll of solid white	0.32	----
95623	2" x 18", kiss cut strip, white	0.03	----
95624	2" x 18" kiss cut strip of 11" Red / 7" White	0.03	----



95625



95627

- Meets or exceeds ANSI/ASAE S279, ANSI/ASAE S276 & ASTM D-4956
- 7 year durability

PART #	DESCRIPTION	APP. WT.	
95625	1" X 150' Roll of solid yellow	0.17	----
95626	2" X 150' Roll of solid yellow	0.32	----
95627	3" round all plastic reflector, Red	0.06	----
95628	3 3/4" x 6 1/2" American flag, type IV HIP	0.02	----



95628

TARP STRAPS



- Heavy Duty EPDM tarp straps
- Longer lasting than rubber
- Greater stretch length
- Ozone and weather resilient
- Made in the USA

PART #	STRAP LENGTH	MATE-RIAL	DESCRIPTION	QTY	
990790	10"	EPDM	Tarp strap with S hook	50	----
990791	15"	EPDM	Tarp strap with S hook	50	----
990792	21"	EPDM	Tarp strap with S hook	50	----
990793	31"	EPDM	Tarp strap with S hook	50	----
990794	41"	EPDM	Tarp strap with S hook	50	----

NYLON DOT AIR BRAKE TUBING

TRUCK AND TRAILER







- Air Brake Tubing available from inventory in a large variety of colors and sizes
- Superior cold weather flexibility and abrasion resistance
- UV and ozone resistant nylon
- Meets or exceeds SAEJ844 (Type A - non-reinforced & Type B - reinforced)
- Meets or exceeds DOT requirements for use with compression fittings (NOTE: SAE does not recognize 1/8", 5/32" or 3/16" O.D. tubing for use with air brake systems)
- Air Brake Tubing identified per SAE J844 & FMVSS No. 106 Brake Hoses, 49 CFR 571.106
- Conforms to our own rigorous qualification and inspection testing which exceeds SAE and DOT requirements
- Designed to operate at up to 150 psi in air brake systems
- Resistant to attack by gasoline, diesel fuel and commonly used road and cleaning chemicals
- Air Brake Tubing available on bulk spools or by packages
- Operating range: -40°- 200°F - Not made for fuel

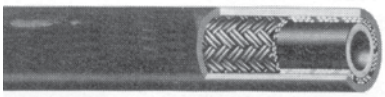
PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	
38950B2	Black	2000'	1/8"	0.023"	----
38950	Black	100'	1/8"	0.023"	----
3895BA	Black	50'	1/8"	0.023"	----
38951B1	Black	1000'	5/32"	0.032"	----
38951	Black	100'	5/32"	0.032"	----
38951BA	Black	50'	5/32"	0.032"	----
38953B1	Black	1000'	3/16"	0.035"	----
38953	Black	100'	3/16"	0.035"	----
38953BA	Black	50'	3/16"	0.035"	----
389523	Black	1000'	1/4"	0.040"	----
389522	Black	500'	1/4"	0.040"	----
38952	Black	100'	1/4"	0.040"	----
38952BA	Black	50'	1/4"	0.040"	----
38952U1	Blue	1000'	1/4"	0.040"	----
38952U	Blue	100'	1/4"	0.040"	----
38952UA	Blue	50'	1/4"	0.040"	----
38952O	Orange	100'	1/4"	0.040"	----
38952OA	Orange	50'	1/4"	0.040"	----
38952G1	Green	1000'	1/4"	0.040"	----
38952G	Green	100'	1/4"	0.040"	----
38952GA	Green	50'	1/4"	0.040"	----
38952R1	Red	1000'	1/4"	0.040"	----
38952R	Red	100'	1/4"	0.040"	----
38952RA	Red	50'	1/4"	0.040"	----
38952Y1	Yellow	1000'	1/4"	0.040"	----
38952Y	Yellow	100'	1/4"	0.040"	----
38952YA	Yellow	50'	1/4"	0.040"	----
38954B5	Black	500'	5/16"	0.040"	----
38954	Black	100'	5/16"	0.040"	----
38954BA	Black	50'	5/16"	0.040"	----
38960B5	Black	500'	3/8"	0.062"	----
38960	Black	100'	3/8"	0.062"	----
38960BA	Black	50'	3/8"	0.062"	----
38960U5	Blue	500'	3/8"	0.062"	----
38960U	Blue	100'	3/8"	0.062"	----
38960UA	Blue	50'	3/8"	0.062"	----
38960O5	Orange	500'	3/8"	0.062"	----
38960O	Orange	100'	3/8"	0.062"	----
38960OA	Orange	50'	3/8"	0.062"	----
38960G5	Green	500'	3/8"	0.062"	----
38960G	Green	100'	3/8"	0.062"	----
38960GA	Green	50'	3/8"	0.062"	----
38960R5	Red	500'	3/8"	0.062"	----
38960R	Red	100'	3/8"	0.062"	----

PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL	
38960RA	Red	50'	3/8"	0.062"	----
38960Y5	Yellow	500'	3/8"	0.062"	----
38960Y	Yellow	100'	3/8"	0.062"	----
38960YA	Yellow	50'	3/8"	0.062"	----
38965B5	Black	500'	1/2"	0.062"	----
38965	Black	100'	1/2"	0.062"	----
38965BA	Black	50'	1/2"	0.062"	----
38965U5	Blue	500'	1/2"	0.062"	----
38965U	Blue	100'	1/2"	0.062"	----
38965UA	Blue	50'	1/2"	0.062"	----
38965O5	Orange	500'	1/2"	0.062"	----
38965O	Orange	100'	1/2"	0.062"	----
38965OA	Orange	50'	1/2"	0.062"	----
38965G5	Green	500'	1/2"	0.062"	----
38965G	Green	100'	1/2"	0.062"	----
38965GA	Green	50'	1/2"	0.062"	----
38965R5	Red	500'	1/2"	0.062"	----
38965R	Red	100'	1/2"	0.062"	----
38965RA	Red	50'	1/2"	0.062"	----
38965Y5	Yellow	500'	1/2"	0.062"	----
38965Y	Yellow	100'	1/2"	0.062"	----
38965YA	Yellow	50'	1/2"	0.062"	----
38970BC	Black	250'	5/8"	0.092"	----
38970	Black	100'	5/8"	0.092"	----
38970BA	Black	50'	5/8"	0.092"	----
38970GC	Green	250'	5/8"	0.092"	----
38970G	Green	100'	5/8"	0.092"	----
38970GA	Green	50'	5/8"	0.092"	----
38970RC	Red	250'	5/8"	0.092"	----
38970R	Red	100'	5/8"	0.092"	----
38970RA	Red	50'	5/8"	0.092"	----
38975BC	Black	250'	3/4"	0.092"	----
38975	Black	100'	3/4"	0.092"	----
38975BA	Black	50'	3/4"	0.092"	----
38975GC	Green	250'	3/4"	0.092"	----
38975G	Green	100'	3/4"	0.092"	----
38975GA	Green	50'	3/4"	0.092"	----

FUEL LINE AND AIR BRAKE HOSE

TRUCK AND TRAILER

FUEL LINE AND VAPOR EMISSION



•SAE 30R7
•Nitrile tube w/ spiral synthetic cord, hypalon cover.
•50 p.s.i. working pressure. 1/2 -35 PSI
•-40^0 F to + 257^0 F temperature range.
•Low pressure/ high temperature fuel for cars, light trucks, and small engines.
• Meets SAE J1402

PART #	ID	OD	LENGTH	
38920	3/16	13/32	25'	----
38926	5/16	9/16	25'	----
38923	1/4	1/2	25'	----
38927	3/8	5/8	50'	----

AIR BRAKE HOSE



• BLACK

•Spiral synthetic cord reinforcement with neoprene cover.
•-40^0 F to +200^0 F temperature range.
•Max opperating pressure 255 psi
•Max burst pressure 900 psi
• Meets SAE J1402

PART #	ID	OD	LENGTH	
38910	3/8	3/4	50'	----
38915	1/2	7/8	50'	----

The Butterfly

A man found a cocoon of a butterfly.

One day a small opening appeared. He sat and watched the butterfly for several hours as it struggled to force its body through that little hole.

Until it suddenly stopped making any progress and looked like it was stuck.

So the man decided to help the butterfly. He took a pair of scissors and snipped off the remaining bit of the cocoon. The butterfly then emerged easily, although it had a swollen body and small, shriveled wings.

The man didn't think anything of it and sat there waiting for the wings to enlarge to support the butterfly. But that didn't happen. The butterfly spent the rest of its life unable to fly, crawling around with tiny wings and a swollen body.

Despite the kind heart of the man, he didn't understand that the restricting cocoon and the struggle needed by the butterfly to get itself through the small opening; were God's way of forcing fluid from the body of the butterfly into its wings. To prepare itself for flying once it was out of the cocoon.

Moral of the story:
Our struggles in life develop our strengths. Without struggles, we never grow and never get stronger, so it's important for us to tackle challenges on our own, and not be relying on help from others.

- UNKNOWN

HYDRAULIC ADAPTERS & ACCESSORIES



STEEL ADAPTERS

Technical information ... 496
Profile size chart 502
Steel Pipe Swivels 504
37° JIC Flare Straights 506
37° JIC Flare Shapes 508
Bulkhead Adapters 510
Steel Pipe Fittings 512
O-Ring Adapters Straight . 517
JIC Swivels 519
O-Ring Adapters 520
O-Ring Face Seal 523
BSPT/ BSPP Adapters 527
Metric Adapters 529
Flange Adapters 536
Stainless Steel Adapters 540
SS Hose Fittings 555

HYDRAULIC QUICK DISCONNECTS

Thread to Connect - Wing 531
ISO A Interchange 531
ISO B Interchange 531
Flush Face ISO 532
VEP Series 532
AG Interchange 533
Hydraulic Jack Q/D 533

HYDRAULIC VALVES & ACCESSORIES

Flow Control Valve 534
Variable Flow Control 535
Air Breathers 535

PLATING SPECIFICATION

Our standard Trivalent, Cr^{+3} plating performs at nearly double the S.A.E. corrosion resistance requirement. The plating meets ASTM B633, Fe/Zn 5. The thickness is 5um-13um. This plating is silver in appearance and has been testing at 96 hours to white rust and 120 hours to red rust.

TECHNICAL INFORMATION

WORKING PRESSURE

The tables on the following pages list the recommended working pressure for a variety of hydraulic fittings made in accordance with certain industry standards. Many factors such as impulse, vibration, mechanical shock, and improper assembly may affect the integrity of the fitting connection.

We recommend sufficient testing be conducted to ensure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. Working pressure ratings are capable of a 4 to 1 minimum burst. All steel fittings meet or exceed the minimum SAE pressure ratings. Always consider application and maximum pressure requirements when selecting fittings.

METHODS FOR INSTALLING FITTINGS

There are three methods for installing a fitting:

- Torque wrench
- Flats From Wrench Resistance
- Turns From Finger Tight

For Flare and NPSM Fittings, we recommend the flats from wrench resistence method be used whenever possible.

The differences in material, plating, and surface finish impacts the coefficient of friction when installing or connecting fittings. To minimize these variances, we recommend that fitting connections are lubricated when installed. Connections that are lubricated provide a more accurate installation torque, which results in fewer leaks.

USING A TORQUE WRENCH

The torque values given in the tables on the following pages are for reference purposes only based on industry standard practice and for low carbon steel mating with steel/iron components. Actual torque values may need to be adjusted due to variances described above.

SAE recommends always making a wet (lubricated) installation or connection to reduce friction on moving parts, O-rings, and variances in material and plating. The torque values in these tables are based off SAE values using a .17 coefficient of friction as per SAE J2593. Many hydraulic leaks are a result of over-torque, which causes excessive deformation of material or exceeds the yield strength of the material, which may reduce the load or clamping force between seal contacts.

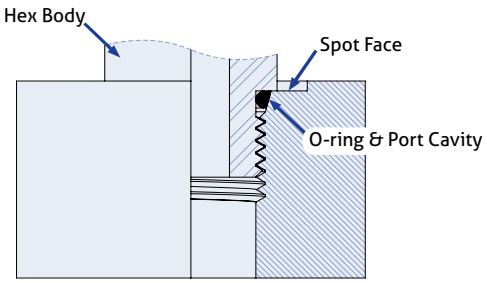
If more than one value or range is given, use the lower value first and increase only if required. Over-torquing can damage a fitting or mating component.

SAE O-Ring Boss Port Specifications

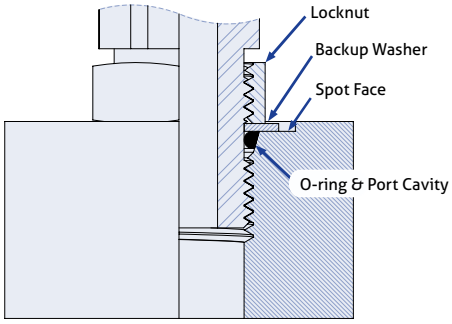
O-ring Boss ports (ORB) provide a seal by trapping the fitting's O-ring inside a port cavity. When a fitting is installed into the port, the O-ring is trapped between the fitting body hex or washer and port cavity.

Straight fittings include a hex, and sometimes an additional cylindrical shoulder below the hex and above the threads, to trap the O-ring in the port cavity.

Elbow and Tee fittings require a backup washer and a locknut above the O-ring on the threaded stud to permit a 360° orientation of the fitting around the port.



Straight SAE ORB



Adustable SAE ORB

The following table lists the specifications for SAE O-Ring Boss Ports.

SAE O-Ring Boss Specifications								
Dash Size	Tube Size	Thread	SAE-ORB to JIC and Pipe Fittings*			SAE-ORB to ORFS Fittings**		
			Torque	Working Pressure		Torque	Working Pressure	
			Adjustable & Non- Adjustable	Adjustable	Non-Adjustable	Adjustable & Non- Adjustable	Adjustable	Non- Adjustable
			(ft-lbs) +25% -0%	(psi)	(psi)	(ft-lbs) +25% -0%	(psi)	(psi)
02	1/8	5/16-24	6	4500	4500	-	-	-
03	3/16	3/8-24	7	4500	4500	7	5800	9100
04	1/4	7/16-20	13	4500	4500	15	5800	9100
05	5/16	1/2-20	18	4500	4500	18	5800	9100
06	3/8	9/16-18	22	3600	4500	26	5800	9100
08	1/2	3/4-16	37	3600	4500	52	5800	9100
10	5/8	7/8-14	44	2900	3600	74	5800	9100
12	3/4	1-1/16-12	70	2900	3600	125	5800	5800
14	7/8	1-3/16-12	92	2300	2900	158	5800	5800
16	1	1-5/16-12	111	2300	2900	199	4500	5800
20	1 1/4	1-5/8-12	147	1800	2300	210	3600	3600
24	1 1/2	1-7/8-12	155	1800	2300	273	2900	3600
32	2	2-1/2-12	221	1450	1800	-	-	-

* = Light duty studs included on JIC, NPTF and NPSM fittings per SAE J1926/3 & J514
** = Heavy duty studs included on ORFS fittings per SAE J1926/2 & J1453

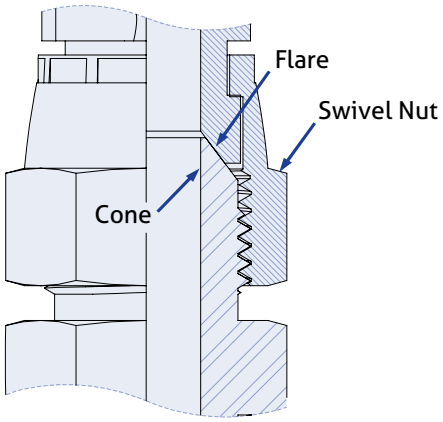
Note: Torque values are for wet torque and are allowed up to 25% the listed value according to SAE J2593.

TECHNICAL INFORMATION
HYDRAULIC ADAPTERS

JIC Adapter Specifications

Male flared fittings include a conical nose with external threads for clamping.

A flared fitting or tube assembly is tightened against the cone with a swivel nut. By forcing the flare against the cone during the torquing process, the nose cone is slightly deformed and meshes to create a metal to metal seal between the flare and the cone.



The following table lists the specifications for JIC adapters.

JIC Specifications							
Dash Size	Tube Size	Thread	Working Pressure		Torque		
			Male	Female Swivel Nut	JIC Rigid	JIC Swivel	Bulkhead Locknut
			(psi)	(psi)	(FFWR)	(FFWR)	(ft-lbs) +25% -0%
02	1/8	5/16-24	5000	5000	1/4 - 1/2	2	4
03	3/16	3/8-24	5000	5000	1/4 - 1/2	2	6
04	1/4	7/16-20	5000	4500	1/4 - 1/2	2	10
05	5/16	1/2-20	5000	4000	1/4 - 1/2	2	13
06	3/8	9/16-18	5000	4000	1/4 - 1/2	2	16
08	1/2	3/4-16	4500	4000	1/4 - 1/2	2	27
10	5/8	7/8-14	3500	3000	1/4 - 1/2	1 1/2	32
12	3/4	1-1/16-12	3500	3000	1/4 - 1/2	1 1/2	52
14	7/8	1-3/16-12	3000	2500	1/4 - 1/2	1 1/2	66
16	1	1-5/16-12	3000	2500	1/4 - 1/2	1 1/2	85
20	1 1/4	1-5/8-12	2500	2000	1/4 - 1/2	1	111
24	1 1/2	1-7/8-12	2000	1500	1/4 - 1/2	1	114
32	2	2-1/2-12	1500	1125	1/4 - 1/2	1	162
Values are per SAE J514							

It has been my observation that most people get ahead during the time that others waste. -*Henry Ford*

Pipe & Pipe Swivel Adapter Specifications

NPSM fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male NPTF fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with NPSM swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

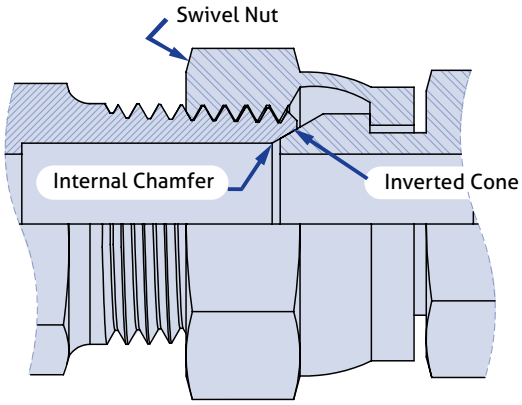


Figure 7 : NPTF & NPSM Union

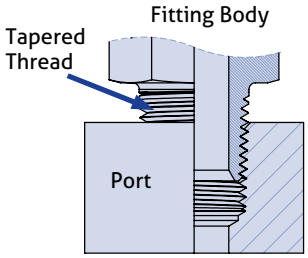


Figure 8: NPT & NPTF Assembly

NPT and NPTF pipe threads seal by wedging the tapered threads through deformation into each other. Both of these threads require thread sealants to complete a seal.

The following table lists the specifications for NPT, NPTF, and NPSM Pipe adapters.

NPT, NPTF, and NPSM Pipe Specifications						
Dash Size	Thread Size	Major OD* (inch)	Working Pressure		Torque	
			NPT, NPTF Male and Female	NPSM Female Swivel Nut	NPT, NPTF	NPSM Swivel Union
			(psi)	*(psi)*	*(TFFT)*	*(FFWR)*
02	*1/8-27*	*.405*	*5000*	*5000*	*2-3*	*2*
04	*1/4-18*	*.540*	*4000*	*5000*	*2-3*	*2*
06	*3/8-18*	*.675*	*3000*	*4000*	*2-3*	*2*
08	*1/2-14*	*.84*	*3000*	*3500*	*2-3*	*2*
12	*3/4-14*	*1.050*	*2500*	*2250*	*2-3*	*2*
16	*1-11 1/2*	*1.315*	*2000*	*2000*	*1 1/2 - 2 1/2*	*1 1/2*
20	*1 1/4-11 1/2*	*1.660*	*1150*	*1625*	*1 1/2 - 2 1/2*	*1 1/2*
24	*1 1/2-11 1/2*	*1.900*	*1000*	*1250*	*1 1/2 - 2 1/2*	*1 1/2*
32	*2-11 1/2*	*2.375*	*1000*	*1125*	*1 1/2 - 2 1/2*	*1 1/2*
Values are per SAE J514 & J2593						

Table 3: NPT, NPTF, and NPSM Pipe Specifications

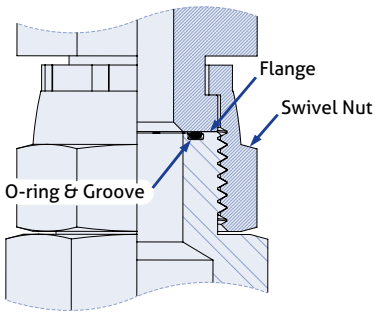
Folks who never do any more than they are paid for, never get paid for any more than they do.

-Elebert Hubbard

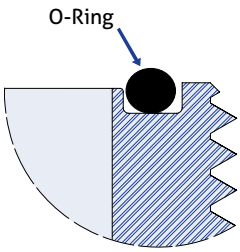
O-ring Face Seal Adapter Specifications

O-ring face seal fittings include a precision groove in the face of the male fitting. Sealing occurs when an O-ring is trapped in the groove by a smooth flat flange that is clamped against the face with a nut or nut and sleeve. The flat flange may be formed or brazed onto the end of a tube, or is machined on a fitting.

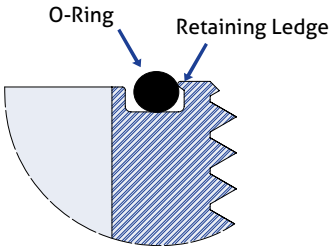
There are two SAE groove types:
- Type A: The original style A O-ring has no retaining ledge.
- Type B: The Type B groove has a retaining ledge (half dovetail) that improves O-ring retention. The Type B style is more commonly found and is a design improvement over the Type A.



e 9 : ORFS Fitting Assembly



: 10: Detail View of Cross Section of Groove Type A



11 : View of Groove Type B

The following table lists the specifications for O-ring Face Seal adapters.

ORFS Specifications								
Dash Size	Tube Size	Thread Size	Working Pressure		Torque			
			Male	Female Swivel Nut	Male & Female	Bulkhead Locknut	Tube Nuts	Swivel Nuts
			(psi)	*(psi)*	*(ft-lbs) +25% -0%*	*(ft-lbs) +25% -0%*	*FWR*	*FWR*
04	*1/4*	*9/16-18*	*6000*	*6000*	*18*	*16*	*1/4-1/2*	*1/2-3/4*
06	*3/8*	*11/16-16*	*6000*	*6000*	*29*	*22*	*1/4-1/2*	*1/2-3/4*
08	*1/2*	*13/16-16*	*6000*	*6000*	*41*	*29*	*1/4-1/2*	*1/2-3/4*
10	*5/8*	*1-14*	*6000*	*6000*	*44*	*44*	*1/4-1/2*	*1/2-3/4*
12	*3/4*	*1-3/16-12*	*6000*	*6000*	*66*	*66*	*1/4-1/2*	*1/3-1/2*
16	*1*	*1-7/16-12*	*6000*	*5000*	*92*	*92*	*1/4-1/2*	*1/3-1/2*
20	*1 1/4*	*1-11/16-12*	*4000*	*4000*	*125*	*111*	*1/4-1/2*	*1/3-1/2*
24	*1 1/2*	*2-12*	*4000*	*3000*	*147*	*125*	*1/4-1/2*	*1/3-1/2*
Note: Values are per SAE J2593 & J1453								
Torque values are for wet installation of steel components. Reduce torque values for softer material components.								

Table 4 : ORFS Specifications

BSPT, BSPP and Metric Adapter Specifications

BSPT and Metric tapered threads install and work in the same manner as NPT and NPTF.

Male BSPP fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male BSPP fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with Female BSPP swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

DIN swivel unions have a 24° inverted cone and may be installed into DIN bite-ring compression fittings. To provide enhanced performance, an O-ring is sometimes included in the cone of some DIN swivel unions.

British Standard Pipe Parallel (BSPP) and Metric Parallel threaded ports do not include a port cavity like the O-ring Boss or ISO 6149 port. Instead, an O-ring sits on top of the spot face or external surface and is surrounded by a metal retaining ring or other retaining component to trap the O-ring between the fitting hex, body, and spot face.

Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

The following table lists the specifications for **BSPP & BSPT Adapters**

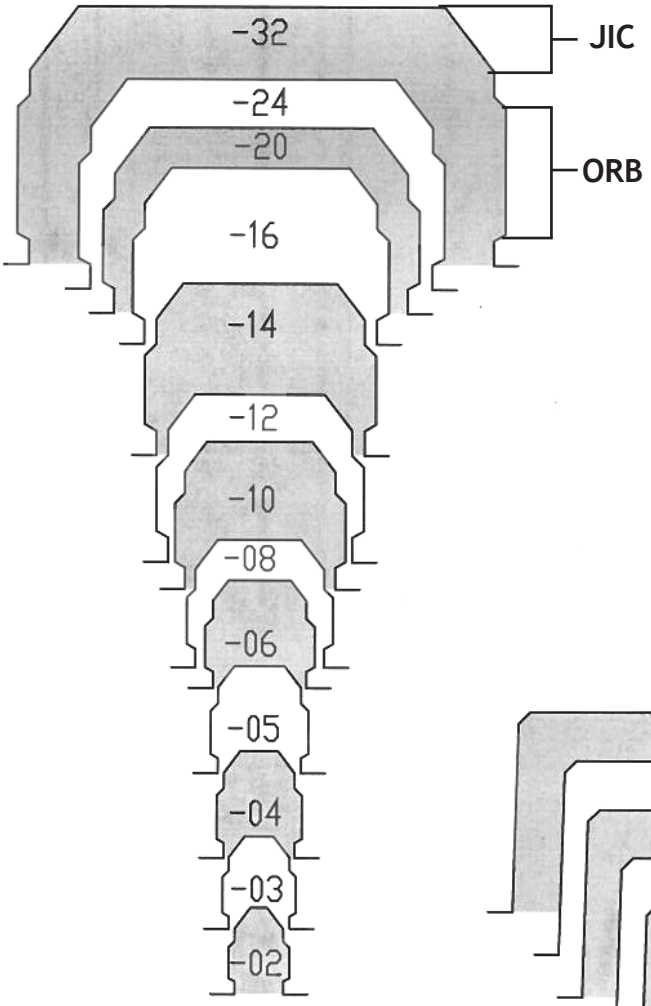
BSPP & BSPT Specifications				
Dash Size	BSPT & BSPP		Torque	
	THREAD SIZE	MAJOR OD* (inch)	BSPP Swivel Union	BSPT
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	1.650	1 1/2	1 1/2 - 2 1/2
24	1 1/2-11	1.882	1 1/2	1 1/2 - 2 1/2
32	2-11	2.347	1 1/2	1 1/2 - 2 1/2

The following table lists the specifications for **Metric Adapters**

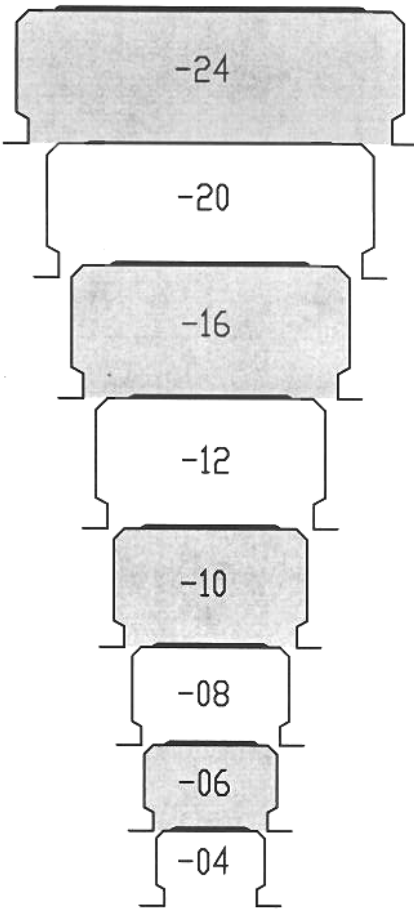
Metric DIN 3852-1 Threads	
Dash Size	THREAD SIZE (mm)
08	8 x 1.0
10	10 x 1.0
12	12 x 1.5
14	14 x 1.5
16	16 x 1.5
18	18 x 1.5
20	20 x 1.5
22	22 x 1.5
24	24 x 1.5
26	26 x 1.5
27	27 x 2.0
30	30 x 2.0
33	33 x 2.0
39	39 x 2.0
42	42 x 2.0
48	48 x 2.0
60	60 X 2.0
Values are from DIN 3852-1	

PROFILE SIZE CHART

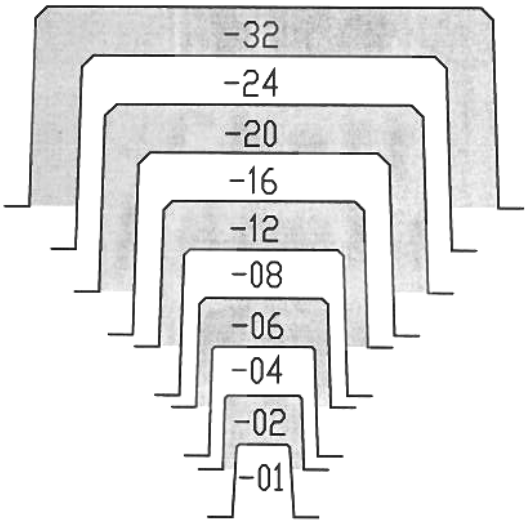
MALE JIC/ MALE O-RING BOSS

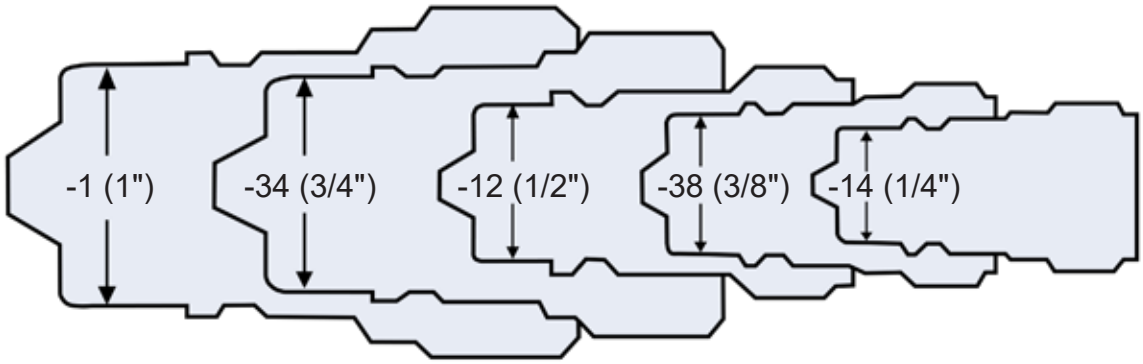


O-RING FACE SEAL

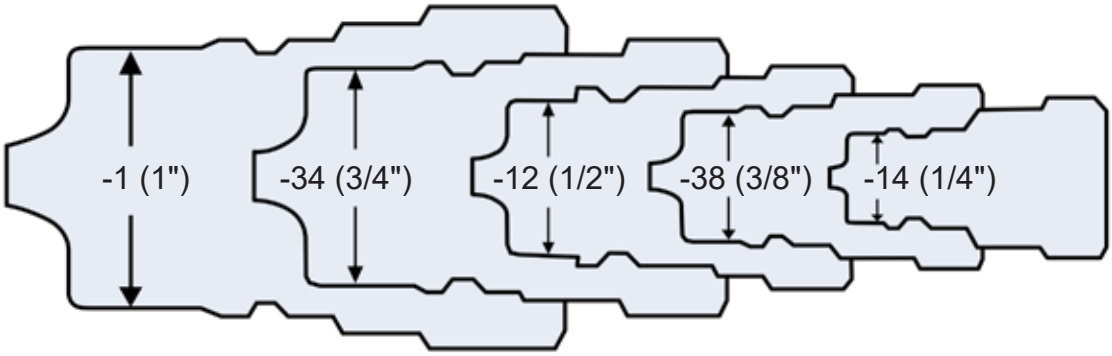


MALE PIPE

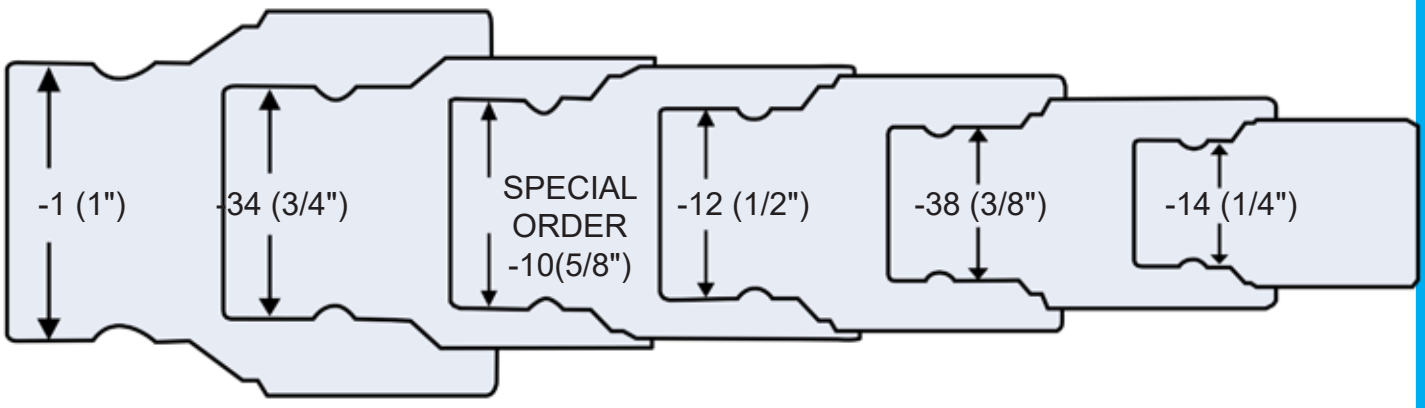




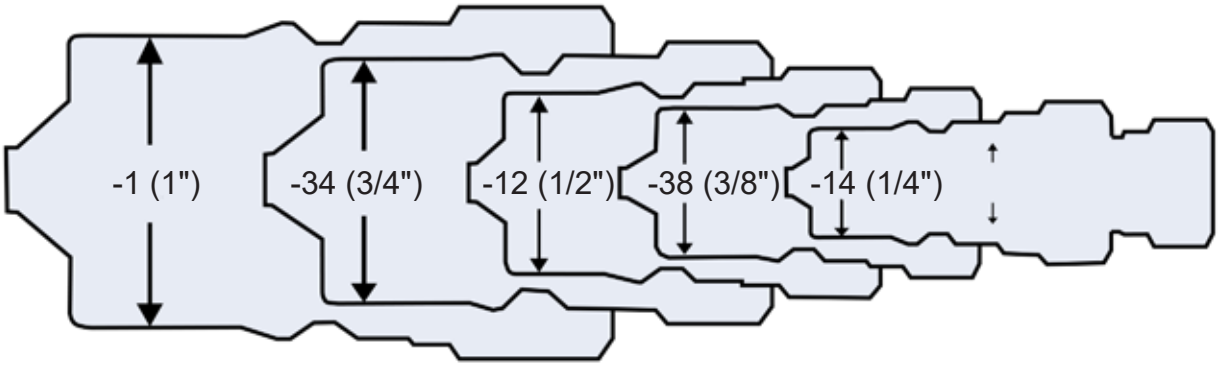
AG INTERCHANGE - NV SERIES



ISO 7241 - 1 - ISO A - ANV SERIES



ISO 16028 - FF SERIES



ISO 7241 - 1 ISO B - HNV SERIES

STEEL PIPE SWIVEL ADAPTERS

HYDRAULIC ADAPTERS

MALE PIPE SWIVEL ADAPTER

SAE 140130

1



2

PART #	MALE PIPE 1	FEMALE NPSM 2	
140422	1/8	1/8	----
140442	1/4	1/8	----
140444	1/4	1/4	----
140464	3/8	1/4	----
140466	3/8	3/8	----
140468	3/8	1/2	----
140484	1/2	1/4	----
140486	1/2	3/8	----
140488	1/2	1/2	----
1404812	1/2	3/4	----
1404126	3/4	3/8	----
1404128	3/4	1/2	----
14041212	3/4	3/4	----
14041216	3/4	1	----
14041612	1	3/4	----
14041616	1	1	----
14041620	1	1-1/4	----
14042024	1-1/4	1-1/2	----
14042016	1-1/4	1	----
14042020	1-1/4	1-1/4	----
14042424	1-1/2	1-1/2	----
14043232	2	2	----

1404 2045R 1210 9205R 0107

FEMALE PIPE SWIVEL ADAPTER

SAE 140131

1



2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	
140522	1/8	1/8	----
140542	1/4	1/8	----
140544	1/4	1/4	----
140546	1/4	3/8	----
140564	3/8	1/4	----
140566	3/8	3/8	----
140586	1/2	3/8	----
140568	3/8	1/2	----
140584	1/2	1/4	----
140588	1/2	1/2	----
1405812	1/2	3/4	----
1405128	3/4	1/2	----
14051212	3/4	3/4	----
14051216	3/4	1	----
14051612	1	3/4	----
14051616	1	1	----
14052020	1-1/4	1-1/4	----
14052424	1-1/2	1-1/2	----
14053232	2	2	----

1405 2046R 1212 9255 C207

MALE PIPE ELBOW SWIVEL ADAPTER

1

SAE 140230



2

PART #	MALE PIPE 1	FEMALE NPSM 2	
150122	1/8	1/8	----
150124	1/8	1/4	----
150142	1/4	1/8	----
150144	1/4	1/4	----
150146	1/4	3/8	----
150148	1/4	1/2	----
150164	3/8	1/4	----
150166	3/8	3/8	----
1501612	3/8	3/4	----
150184	1/2	1/4	----
150186	1/2	3/8	----
150188	1/2	1/2	----
1501126	3/4	3/8	----
1501128	3/4	1/2	----
15011212	3/4	3/4	----
15011216	3/4	1	----
1501168	1	1/2	----
15011612	1	3/4	----
15011616	1	1	----
15012016	1-1/4	1	----
15012020	1-1/4	1-1/4	----
15013232	2	2	----

1501 2047R 1218 9405 2107

FEMALE UNION ELBOW SWIVEL ADAPTER

SAE 140231

1



2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	
150222	1/8	1/8	----
150242	1/4	1/8	----
150244	1/4	1/4	----
150246	1/4	3/8	----
150264	3/8	1/4	----
150266	3/8	3/8	----
150268	3/8	1/2	----
150284	1/2	1/4	----
150286	1/2	3/8	----
150288	1/2	1/2	----
1502812	1/2	3/4	----
1502128	3/4	1/2	----
15021212	3/4	3/4	----
15021616	1	1	----
15022020	1-1/4	1-1/4	----
15022424	1-1/2	1-1/2	----

1502 2207 1216 94SSR

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FEMALE PIPE SWIVELS
HYDRAULIC ADAPTERS

MALE 45° PIPE ELBOW SWIVEL ADAPTER

SAE 140330



PART #	MALE PIPE 1	FEMALE NPSM 2	
150322	1/8	1/8	----
150344	1/4	1/4	----
150346	1/4	3/8	----
150364	3/8	1/4	----
150366	3/8	3/8	----
150368	3/8	1/2	----
150384	1/2	1/4	----
150386	1/2	3/8	----
150388	1/2	1/2	----
1503812	1/2	3/4	----
1503128	3/4	1/2	----
15031212	3/4	3/4	----
15031216	3/4	1	----
15031612	1	3/4	----
15031616	1	1	----
15031620	1	1-1/4	----
15032020	1-1/4	1-1/4	----

1503 2049R 3107 1214 9355R

FEMALE 45° UNION ELBOW SWIVEL ADAPTER

SAE 140331



PART #	FEMALE PIPE 1	FEMALE NPSM 2	
150422	1/8	1/8	----
150444	1/4	1/4	----
150466	3/8	3/8	----
150488	1/2	1/2	----
15041212	3/4	3/4	----
15041616	1	1	----

1504 2050R 1249 9385R

MALE SWIVEL BRANCH TEE



PART #	FEMALE NPSM 1 & 2	MALE PIPE 3	
160122	1/8	1/8	----
160144	1/4	1/4	----
160166	3/8	3/8	----
160188	1/2	1/2	----
16011212	3/4	3/4	----
16011616	1	1	----

1601 2254R 1258 9406R

FEMALE SWIVEL TEE



PART #	FEMALE NPSM 1 & 2	FEMALE PIPE 3	
160244	1/4	1/4	----
160266	3/8	3/8	----
160288	1/2	1/2	----
16021212	3/4	3/4	----
16021616	1	1	----

1602 2253R 1259 9456R

FEMALE SWIVEL UNION TEE



PART #	FEMALE NPSM 1,2 & 3	
160344	1/4	----
160366	3/8	----
160388	1/2	----
16031212	3/4	----
16031616	1	----

1603 2255 1223 9705R

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

LONG JIC TUBE NUT

SAE 070111



PART #	TUBE O.D	JIC THREAD SIZE	
03044	1/4	7/16-20	----
03046	3/8	9/16-18	----
03048	1/2	3/4-16	----
030410	5/8	7/8-14	----
030412	3/4	1-1/16-12	----
030416	1	1-5/16-12	----

304 221000 0304 C5115

SAE 070112
MS 51532



PART #	TUBE O.D.	JIC THREAD SIZE	
0304C2	1/8	5/16-24	----
0304C3	3/16	3/8-24	----
0304C4	1/4	7/16-20	----
0304C5	5/16	1/2-20	----
0304C6	3/8	9/16-18	----
0304C8	1/2	3/4-16	----
0304C10	5/8	7/8-14	----
0304C12	3/4	1-1/16-12	----
0304C14	7/8	1-3/16-12	----
0304C16	1	1-5/16-12	----
0304C20	1-1/4	1-5/8-12	----
0304C24	1-1/2	1-7/8-12	----
0304C32	2	2-1/2-12	----

820 304 210292 FNTX 1329 C5129

JIC TUBE NUT

(SLEEVE REQUIRED)

SAE 070110
MS 51531



PART #	TUBE O.D	JIC THREAD SIZE	
03182	1/8	5/16-24	----
03183	3/16	3/8-24	----
03184	1/4	7/16-20	----
03185	5/16	1/2-20	----
03186	3/8	9/16-18	----
03188	1/2	3/4-16	----
031810	5/8	7/8-14	----
031812	3/4	1-1/16-12	----
031814	7/8	1-3/16-12	----
031816	1	1-5/16-12	----
031820	1-1/4	1-5/8-12	----
031824	1-1/2	1-7/8-12	----

318 1290 BTX 1311 C5105

JIC TUBE SLEEVE

SAE 070115
MS 51533



PART #	TUBE O.D	
03192	1/8	----
03193	3/16	----
03194	1/4	----
03195	5/16	----
03196	3/8	----
03198	1/2	----
031910	5/8	----
031912	3/4	----
031914	7/8	----
031916	1	----
031920	1-1/4	----
031924	1-1/2	----
031932	2	----

319 900605 TX 1253 C5165

JIC TUBE UNION

SAE 070101
MS 51501

1



2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
240322	5/16-24	5/16-24	----
240333	3/8-24	3/8-24	----
240344	7/16-20	7/16-20	----
240355	1/2-20	1/2-20	----
240366	9/16-18	9/16-18	----
240364	9/16-18	7/16-20	----
240384	3/4-16	7/16-20	----
240388	3/4-16	3/4-16	----
240386	3/4-16	9/16-18	----
24031010	7/8-14	7/8-14	----
2403108	7/8-14	3/4-16	----
24031212	1-1/16-12	1-1/16-12	----
2403126	1-1/16-12	9/16-18	----
2403128	1-1/16-12	3/4-16	----
24031210	1-1/16-12	7/8-14	----
24031414	1-3/16-12	1-3/16-12	----
24031616	1-5/16-12	1-5/16-12	----
24031612	1-5/16-12	1-1/16-12	----
24032016	1-5/8-12	1-5/16-12	----
24032020	1-5/8-12	1-5/8-12	----
240324	1-7/8-12	1-7/8-12	----
240332	2-1/2-12	2-1/2-12	----

2403 2027 HTX 1204 C5305

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE CONNECTOR

SAE 070102
MS 51500



PART #	JIC THREAD SIZE 1	MALEPIPE THREAD 2	
240422	5/16-24	1/8	----
240432	3/8-24	1/8	----
240434	3/8-24	1/4	----
240442	7/16-20	1/8	----
240444	7/16-20	1/4	----
240446	7/16-20	3/8	----
240448	7/16-20	1/2	----
240462	9/16-18	1/8	----
240464	9/16-18	1/4	----
240466	9/16-18	3/8	----
240468	9/16-18	1/2	----
2404612	9/16-18	3/4	----
240484	3/4-16	1/4	----
240486	3/4-16	3/8	----
240488	3/4-16	1/2	----
2404812	3/4-16	3/4	----
2404816	3/4-16	1	----
2404104	7/8-14	1/4	----
2404106	7/8-14	3/8	----
2404108	7/8-14	1/2	----
24041012	7/8-14	3/4	----
2404126	1-1/16-12	3/8	----
2404128	1-1/16-12	1/2	----
24041212	1-1/16-12	3/4	----
24041216	1-1/16-12	1	----
24041612	1-5/16-12	3/4	----
24041616	1-5/16-12	1	----
24041620	1-5/16-12	1-1/4	----
24041624	1-5/16-12	1-1/2	----
24042012	1-5/8-12	3/4	----
24042016	1-5/8-12	1	----
24042020	1-5/8-12	1-1/4	----
24042024	1-5/8-12	1-1/2	----
24042416	1-7/8-12	1	----
24042420	1-7/8-12	1-1/4	----
24042424	1-7/8-12	1-1/2	----
24042432	1-7/8-12	2	----
24043224	2-1/2-12	1-1/2	----
24043232	2-1/2-12	2	----

2404 2021R FTX 1202R C5205 816

JIC FEMALE CONNECTOR



SAE 070103
MS 51503

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	
240522	5/16-24	1/8	----
240532	3/8-24	1/8	----
240542	7/16-20	1/8	----
240544	7/16-20	1/4	----
240546	7/16-20	3/8	----
240564	9/16-18	1/4	----
240566	9/16-18	3/8	----
240584	3/4-16	1/4	----
240586	3/4-16	3/8	----
240588	3/4-16	1/2	----
2405812	3/4-16	3/4	----
2405106	7/8-14	3/8	----
2405108	7/8-14	1/2	----
2405128	1-1/16-12	1/2	----
24051212	1-1/16-12	3/4	----
24051216	1-1/16-12	1	----
24051612	1-5/16-12	3/4	----
24051616	1-5/16-12	1	----
24052020	1-5/8-12	1-1/4	----

2405 2022R GTX 1230R C5255

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

JIC REDUCER/ EXPANDER

SAE 070123 1



2

PART #	FEMALE JIC THREAD SIZE 1	MALE JIC THREAD SIZE 2	
240664	9/16-18	7/16-20	----
240665	9/16-18	1/2-20	----
240668	9/16-18	3/4-16	----
240684	3/4-16	7/16-20	----
240686	3/4-16	9/16-18	----
2406812	3/4-16	1-1/16-12	----
2406104	7/8-14	7/16-20	----
2406106	7/8-14	9/16-18	----
2406108	7/8-14	3/4-16	----
2406124	1-1/16-12	7/16-20	----
2406126	1-1/16-12	9/16-18	----
2406128	1-1/16-12	3/4-16	----
24061210	1-1/16-12	7/8-14	----
24061216	1-1/16-12	1-5/16-12	----
2406164	1-5/16-12	7/16-20	----
2406166	1-5/16-12	9/16-18	----
2406168	1-5/16-12	3/4-16	----
24061612	1-5/16-12	1-1/16-12	----
24061620	1-5/16-12	1-5/8-12	----
2406208	1-5/8-12	3/4-16	----
24062012	1-5/8-12	1-1/16-12	----
24062012	1-5/8-12	1-1/16-12	----
24062016	1-5/8-12	1-5/16-12	----
24062416	1-7/8-12	1-5/16-12	----
24062420	1-7/8-12	1-5/8-12	----
24063224	2-1/2-12	1-7/8-12	----

2406 C5015 2215 TRTX 1246

PLUG

SAE 070109
MS 51518



PART #	TUBE O.D.	JIC THREAD SIZE	
24082	1/8	5/16-24	----
24083	3/16	3/8-24	----
24084	1/4	7/16-20	----
24085	5/16	1/2-20	----
24086	3/8	9/16-18	----
24088	1/2	3/4-16	----
240810	5/8	7/8-14	----
240812	3/4	1-1/16-12	----
240814	7/8	1-3/16-12	----
240816	1	1-5/16-12	----
240820	1-1/4	1-5/8-12	----
240824	1-1/2	1-7/8-12	----
240832	2	2-1/2-12	----

2408 430549 PNTX 1254 C5229

STEEL 37° JIC FLARE SHAPES

JIC UNION ELBOW

SAE 070201
MS 51505

1



2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
250022	5/16-24	5/16-24	----
250044	7/16-20	7/16-20	----
250055	1/2-20	1/2-20	----
250066	9/16-18	9/16-18	----
250064	9/16-18	7/16-20	----
250088	3/4-16	3/4-16	----
250086	3/4-16	9/16-18	----
25001010	7/8-14	7/8-14	----
25001212	1-1/16-12	1-1/16-12	----
25001612	1-5/16-12	1-1/16-12	----
25001616	1-5/16-12	1-5/16-12	----
25002020	1-5/8-12	1-5/8-12	----
25002424	1-7/8-12	1-7/8-12	----
25003232	2-1/2-12	2-1/2-12	----

2500 2039 1234 C5505 821

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STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE ELBOW

SAE 070202
MS 51504



PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	
250122	5/16-24	1/8	----
250142	7/16-20	1/8	----
250144	7/16-20	1/4	----
250146	7/16-20	3/8	----
250148	7/16-20	1/2	----
250162	9/16-18	1/8	----
250164	9/16-18	1/4	----
250166	9/16-18	3/8	----
250168	9/16-18	1/2	----
2501612	9/16-18	3/4	----
250184	3/4-16	1/4	----
250186	3/4-16	3/8	----
250188	3/4-16	1/2	----
2501812	3/4-16	3/4	----
2501816	3/4-16	1	----
2501106	7/8-14	3/8	----
2501108	7/8-14	1/2	----
2501128	1-1/16-12	1/2	----
25011212	1-1/16-12	3/4	----
25011216	1-1/16-12	1	----
25011612	1-5/16-12	3/4	----
25011616	1-5/16-12	1	----
25011620	1-5/16-12	1-1/4	----
25012016	1-5/8-12	1	----
25012020	1-5/8-12	1-1/4	----
25012024	1-5/8-12	1-1/2	----
25012420	1-7/8-12	1-1/4	----
25012424	1-7/8-12	1-1/2	----
25013232	2-1/2-12	2	----

1208R C5405 2501 2024R CTX 822

JIC FEMALE ELBOW

SAE 070203
MS 51506



PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	
250242	7/16-20	1/8	----
250244	7/16-20	1/4	----
250246	7/16-20	3/8	----
250262	9/16-18	1/8	----
250264	9/16-18	1/4	----
250266	9/16-18	3/8	----
250268	9/16-18	1/2	----
250284	3/4-16	1/4	----
250286	3/4-16	3/8	----
250288	3/4-16	1/2	----
2502128	1-1/16-12	1/2	----
25021212	1-1/16-12	3/4	----
25021612	1-5/16-12	3/4	----
25021616	1-5/16-12	1	----
25022020	1-5/8-12	1-1/4	----

2502 2025R DTX 1240R C5455

JIC MALE 45° ELBOW

SAE 070302
MS 51508



PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	
250322	5/16-24	1/8	----
250342	7/16-20	1/8	----
250344	7/16-20	1/4	----
250346	7/16-20	3/8	----
250362	9/16-18	1/8	----
250364	9/16-18	1/4	----
250366	9/16-18	3/8	----
250368	9/16-18	1/2	----
2503612	9/16-18	3/4	----
250384	3/4-16	1/4	----
250386	3/4-16	3/8	----
250388	3/4-16	1/2	----
2503106	7/8-14	3/8	----
2503108	7/8-14	1/2	----
25031012	7/8-14	3/4	----
25031212	1-1/16-12	3/4	----
25031216	1-1/16-12	1	----
25031616	1-5/16-12	1	----
25031620	1-5/16-12	1-1/4	----
25032016	1-5/8-12	1	----
25032020	1-5/8-12	1-1/4	----

2503 2023R VTX 1206R C5355 823

SHAPES STEEL JIV FLARE 37°
HYDRAULIC ADAPTERS

JIC MALE BRANCH TEE



PART #	JIC THREAD SIZE 1&2	PIPE THREAD SIZE 3	
260144	7/16-20	1/4	----
260166	9/16-18	3/8	----
260188	3/4-16	1/2	----
26011212	1-1/16-12	3/4	----

2601 2030R STX 1221R C5605

JIC FEMALE BRANCH TEE

SAE 070427
MS 51513



PART #	JIC THREAD SIZE 1 & 2	FEMALE PIPE SIZE 3	
260244	7/16-20	1/4	----
260266	9/16-18	3/8	----
260288	3/4-16	1/2	----

2602 2031R OTX 1228R C6566

JIC UNION TEE

SAE 070401
MS 51510



PART #	JIC THREAD SIZE 1 & 2	JIC THREAD SIZE 3	
260322	5/16-24	5/16-24	----
260333	3/8-24	3/8-24	----
260344	7/16-20	7/16-20	----
260366	9/16-18	9/16-18	----
260388	3/4-16	3/4-16	----
26031010	7/8-14	7/8-14	----
26031212	1-1/16-12	1-1/16-12	----
26031616	1-5/16-12	1-5/16-12	----

2603 2033 JTX 1220 C5705

STEEL BULKHEAD FITTINGS

LOCK NUT

SAE 070118
MS 51860



*** Lock Nut no longer included on fittings**

PART #	THREAD SIZE	
03062	5/16-24	----
03064	7/16-20	----
03065	1/2-20	----
03066	9/16-18	----
03068	3/4-16	----
030610	7/8-14	----
030612	1-1/16-12	----
030614	1-3/16-12	----
030616	1-5/16-12	----
030620	1-5/8-12	----

1306 894 210212 WLN 1332 C5624

JIC BULKHEAD UNION

SAE 070601
MS 51520



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
270022	5/16-24	5/16-24	----
270044	7/16-20	7/16-20	----
270055	1/2-20	1/2-20	----
270066	9/16-18	9/16-18	----
27008	3/4-16	3/4-16	----
270010	7/8-14	7/8-14	----
270012	1-1/16-12	1-1/16-12	----
270014	1-3/16-12	1-3/16-12	----
270016	1-5/16-12	1-5/16-12	----

2700 2041R WTX 1260 C5325

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

JIC BULKHEAD UNION ELBOW

SAE 070701
MS 51507



PART #	JIC THREAD SIZE 1	JIC BULKHEAD THREAD 2	
27014	7/16-20	7/16-20	----
27015	1/2-20	1/2-20	----
27016	9/16-18	9/16-18	----
27018	3/4-16	3/4-16	----
270110	7/8-14	7/8-14	----
270112	1-1/16-12	1-1/16-12	----
270116	1-5/16-12	1-5/16-12	----
270120	1-5/8-12	1-5/8-12	----

2701 2043R WETX 1262 C5525

JIC BULKHEAD UNION 45° ELBOW

SAE 070801
MS 51509



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
27024	7/16-20	7/16-20	----
27026	9/16-18	9/16-18	----
27028	3/4-16	3/4-16	----
270210	7/8-14	7/8-14	----
270212	1-1/16-12	1-1/16-12	----
270216	1-5/16-12	1-5/16-12	----

2702 2042 WNTX 1261 C5375

JIC BULKHEAD BRANCH TEE

SAE 070959
MS 51515



PART #	JIC THREAD SIZE 1&2	JIC THREAD SIZE 3	
27034	7/16-20	7/16-20	----
27036	9/16-18	9/16-18	----
27038	3/4-16	3/4-16	----
270310	7/8-14	7/8-14	----
270312	1-1/16-12	1-1/16-12	----
270316	1-5/16-12	1-5/16-12	----

2703 203002 WJT 1283 C5725

JIC BULKHEAD RUN TEE

SAE 070958
MS 51516



PART #	JIC THREAD SIZE 1&3	JIC THREAD SIZE 2	
27044	7/16-20	7/16-20	----
27046	9/16-18	9/16-18	----
27048	3/4-16	3/4-16	----
270410	7/8-14	7/8-14	----
270412	1-1/16-12	1-1/16-12	----
270416	1-5/16-12	1-5/16-12	----

2704 203008 WJJT 1284 C5726

JIC TO FEMALE PIPE BULKHEAD



PART #	JIC THREAD	FEMALE PIPE SIZE 2	
270544	7/16-20	3/8	----
270566	9/16-18	1/2	----
270588	3/4-16	3/4	----
27051212	1-1/16-12	1	----
27051616	1-5/16-12	1-1/4	----
27052020	1-5/8-12		----

2705 2239 WGTX C5275

JIC TO MALE PIPE BULKHEAD



PART #	JIC THREAD SIZE 1	PIPE THREAD SIZE 2	
270644	7/16-20	1/4	----
270666	9/16-18	3/8	----
270688	3/4-16	1/2	----
27061212	1-1/16-12	3/4	----
27061616	1-5/16-12	1	----

2706 2240

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

**** Lock Nuts sold separately - pg. 403***

STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

PIPE COUPLING

SAE 140138



PART #	FEMALE PIPE 1	FEMALE PIPE 2	
50002	1/8	1/8	----
500042	1/4	1/8	----
50004	1/4	1/4	----
500064	3/8	1/4	----
500066	3/8	3/8	----
500084	1/2	1/4	----
500086	1/2	3/8	----
50008	1/2	1/2	----
5000128	3/4	1/2	----
50001212	3/4	3/4	----
5000168	1	1/2	----
50001612	1	3/4	----
500016	1	1	----
50002020	1-1/4	1-1/4	----
500024	1-1/2	1-1/2	----
500032	2	2	----

5000 2096 GG 1273 C3309

910

HEX PIPE NIPPLES

SAE 140137



PART #	MALE PIPE 1	MALE PIPE 2	
54042	1/8	1/8	----
540442	1/4	1/8	----
54044	1/4	1/4	----
540462	3/8	1/8	----
540464	3/8	1/4	----
54046	3/8	3/8	----
540484	1/2	1/4	----
540486	1/2	3/8	----
54048	1/2	1/2	----
5404126	3/4	3/8	----
5404128	3/4	1/2	----
540412	3/4	3/4	----
5404166	1	3/8	----
5404168	1	1/2	----
54041612	1	3/4	----
540416	1	1	----
54042012	1-1/4	3/4	----
54042016	1-1/4	1	----
540420	1-1/4	1-1/4	----
54042412	1-1/2	3/4	----
54042416	1-1/2	1	----
54042420	1-1/2	1-1/4	----
540424	1-1/2	1-1/2	----
54043224	2	1-1/2	----

5404 2083 FF 1252 C3069 911

EXPANDING PIPE ADAPTER

SAE 140139



PART #	MALE PIPE 1	FEMALE PIPE 2	
540522	1/8	1/8	----
540524	1/8	1/4	----
540542	1/4	1/8	----
540544	1/4	1/4	----
540548	1/4	1/2	----
540564	3/8	1/4	----
540566	3/8	3/8	----
540568	3/8	1/2	----
5405612	3/8	3/4	----
540588	1/2	1/2	----
5405812	1/2	3/4	----
5405816	1/2	1	----
54051212	3/4	3/4	----
54051216	3/4	1	----
54051220	3/4	1-1/4	----
54051616	1	1	----
54051620	1	1-1/4	----
54052020	1-1/4	1-1/4	----
54052024	1-1/4	1-1/2	----
54052424	1-1/2	1-1/2	----

920 5405 2040 FG-(R) 1274 C3209(R)

5406 2081 PTR 1250 C3109 912

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HEX REDUCER BUSHING

SAEF1
140140



PART #	MALE PIPE	FEMALE PIPE	
540642	1/4	1/8	----
540662	3/8	1/8	----
540664	3/8	1/4	----
540682	1/2	1/8	----
540684	1/2	1/4	----
540686	1/2	3/8	----
5406124	3/4	1/4	----
5406126	3/4	3/8	----
5406128	3/4	1/2	----
5406164	1	1/4	----
5406166	1	3/8	----
5406168	1	1/2	----
54061612	1	3/4	----
5406206	1-1/4	3/8	----
5406208	1-1/4	1/2	----
54062012	1-1/4	3/4	----
54062016	1-1/4	1	----
5406248	1-1/2	1/2	----
54062412	1-1/2	3/4	----
54062416	1-1/2	1	----
54062420	1-1/2	1-1/4	----
54063212	2	3/4	----
54063216	2	1	----
54063220	2	1-1/4	----
54063224	2	1-1/2	----

HEX HEAD PLUG

SAE 130109E



PART #	MALE PIPE	
5406P2	1/8	----
5406P4	1/4	----
5406P6	3/8	----
5406P8	1/2	----
5406P12	3/4	----
5406P16	1	----
5406P20	1-1/4	----
5406P24	1-1/2	----
5406P32	2	----

933 5406P 2082 HP 1251 C3159

HOLLOW HEX PLUG

SAE 130109



PART #	MALE PIPE	
5406HHP2	1/8	----
5406HHP4	1/4	----
5406HHP6	3/8	----
5406HHP8	1/2	----
5406HHP12	3/4	----
5406HHP16	1	----
5406HHP20	1-1/4	----
5406HHP24	1-1/2	----

C3169 2222

FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER



PART #	MALE PIPE	
5406FLP2	1/8	----
5406FLP4	1/4	----
5406FLP6	3/8	----
5406FLP8	1/2	----
5406FLP12	3/4	----

SQUARE HEAD PLUG

SAE 130109A



PART #	MALE PIPE	
5406SHP2	1/8	----
5406SHP4	1/4	----
5406SHP6	3/8	----
5406SHP8	1/2	----
5406SHP12	3/4	----
5406SHP16	1	----
5406SHP20	1-1/4	----
5406SHP24	1-1/2	----
5406SHP32	2	----

C3179

PIPE CAP



PART #	FEMALE PIPE	
5406C2	1/8	----
5406C4	1/4	----
5406C6	3/8	----
5406C8	1/2	----
5406C12	3/4	----
5406C16	1	----

HPC

MALE ELBOW

SAE 140237



PART #	MALE PIPE 1	MALE PIPE 2	
55002	1/8	1/8	----
550042	1/4	1/8	----
55004	1/4	1/4	----
550064	3/8	1/4	----
55006	3/8	3/8	----
550084	1/2	1/4	----
550086	1/2	3/8	----
55008	1/2	1/2	----
5500128	3/4	1/2	----
55001212	3/4	3/4	----
55001612	1	3/4	----
550016	1	1	----
55001612	1	3/4	----
55002016	1-1/4	1	----
55002020	1-1/4	1-1/4	----
550024	1-1/2	1-1/2	----
550032	2	2	----

919 5500 2085 CR 1275 C3529

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STEEL PIPE FITTINGS
HYDRAULIC ADAPTERS

45° MALE ELBOW



PART #	MALE PIPE 1	MALE PIPE 2	
550122	1/8	1/8	----
550144	1/4	1/4	----
550166	3/8	3/8	----
55018	1/2	1/2	----
55011212	3/4	3/4	----
55011616	1	1	----

5501 2247

90° STREET ELBOW

SAE 140239



PART #	MALE PIPE 1	FEMALE PIPE 2	
55022	1/8	1/8	----
55024	1/4	1/4	----
550264	3/8	1/4	----
55026	3/8	3/8	----
550268	3/8	1/2	----
550284	1/2	1/4	----
550286	1/2	3/8	----
550288	1/2	1/2	----
550212	3/4	3/4	----
5502812	1/2	3/4	----
5502128	3/4	1/2	----
55021612	1	3/4	----
55021616	1	1	----
550220	1-1/4	1-1/4	----
550224	1-1/2	1-1/2	----

5502 2089 CD 1234R C3409 914

45° STREET ELBOW

SAE 140339



PART #	MALE PIPE 1	FEMALE PIPE 2	
55032	1/8	1/8	----
55034	1/4	1/4	----
55036	3/8	3/8	----
55038	1/2	1/2	----
55031212	3/4	3/4	----
550316	1	1	----

5503 CD45 1244

FEMALE ELBOW

SAE 140238



PART #	FEMALE PIPE 1	FEMALE PIPE 2	
55042	1/8	1/8	----
550442	1/4	1/8	----
55044	1/4	1/4	----
55046	3/8	3/8	----
550484	1/2	1/4	----
550486	1/2	3/8	----
55048	1/2	1/2	----
5504128	3/4	1/2	----
550412	3/4	3/4	----
55041612	1	3/4	----
550416	1	1	----
550420	1-1/4	1-1/4	----
550424	1-1/2	1-1/2	----

5504 2087 DD 1245 C3509 916

45° FEMALE ELBOW

SAE 140338



PART #	FEMALE PIPE 1	FEMALE PIPE 2	
55054	1/4	1/4	----
55056	3/8	3/8	----
55058	1/2	1/2	----
550512	3/4	3/4	----
550516	1	1	----
550520	1-1/4	1-1/4	----

5505 DD45 1241 C3559

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MALE PIPE TEE

SAE 140437

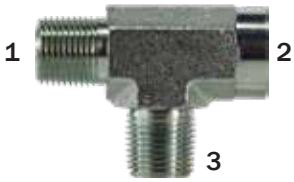


PART #	MALE PIPE 1 & 2	MALE PIPE 3	
560022	1/8	1/8	----
560044	1/4	1/4	----
560066	3/8	3/8	----
560088	1/2	1/2	----
560012	3/4	3/4	----
560016	1	1	----

5600 2257 RRS

FEMALE RUN PIPE TEE

SAE 1404276



PART #	MALE PIPE 1 & 3	FEMALE PIPE 2	
560322	1/8	1/8	----
560344	1/4	1/4	----
560366	3/8	3/8	----
560388	1/2	1/2	----
560312	3/4	3/4	----
560316	1	1	----

5603 2093 MMO 1277

FEMALE BRANCH PIPE TEE

SAE 140427



PART #	MALE PIPE 1 & 2	FEMALE PIPE 3	
560122	1/8	1/8	----
560144	1/4	1/4	----
560166	3/8	3/8	----
560112	3/4	3/4	----
560116	1	1	----

901 5601 2256

MALE BRANCH PIPE TEE



PART #	FEMALE PIPE 1 & 2	MALE PIPE 3	
560422	1/8	1/8	----
560444	1/4	1/4	----
560466	3/8	3/8	----
560488	1/2	1/2	----
560412	3/4	3/4	----
560416	1	1	----

904 5604 2091 MMS 1278 C3609

STREET PIPE TEE

SAE 140424



PART #	MALE PIPE 1	FEMALE PIPE 2 & 3	
560222	1/8	1/8	----
560244	1/4	1/4	----
560266	3/8	3/8	----
560288	1/2	1/2	----
560212	3/4	3/4	----
560216	1	1	----

902 5602 2092 MRO 1276 C3759

FEMALE PIPE TEE

SAE 140438



PART #	FEMALE PIPE	
560522	1/8	----
560544	1/4	----
560566	3/8	----
56058	1/2	----
560512	3/4	----
560516	1	----
560520	1-1/4	----

917 5605 2090 1225 C3709

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING CONNECTOR

SAE 070120
MS 51525



PART #	JIC THREAD SIZE 1	O-RING THREAD 2	
64002	5/16-24	5/16-24	----
64003	3/8-24	3/8-24	----
64004	7/16-20	7/16-20	----
640042	7/16-20	5/16-24	----
640046	7/16-20	9/16-18	----
640048	7/16-20	3/4-16	----
64005	1/2-20	1/2-20	----
64006	9/16-18	9/16-18	----
640064	9/16-18	7/16-20	----
640068	9/16-18	3/4-16	----
6400610	9/16-18	7/8-14	----
6400612	9/16-18	1-1/16-12	----
6400616	9/16-18	1-5/16-12	----
64008	3/4-16	3/4-16	----
640084	3/4-16	7/16-20	----
640086	3/4-16	9/16-18	----
6400810	3/4-16	7/8-14	----
6400812	3/4-16	1-1/16-12	----
640010	7/8-14	7/8-14	----
6400106	7/8-14	9/16-18	----
6400108	7/8-14	3/4-16	----
64001012	7/8-14	1-1/16-12	----
640012	1-1/16-12	1-1/16-12	----
6400128	1-1/16-12	3/4-16	----
64001210	1-1/16-12	7/8-14	----
64001214	1-1/16-12	1-3/16-12	----
64001216	1-1/16-12	1-5/16-12	----
640016	1-5/16-12	1-5/16-12	----
64001612	1-5/16-12	1-1/16-12	----
64001620	1-5/16-12	1-5/8-12	----
64001624	1-5/16-12	1-7/8-12	----
640020	1-5/8-12	1-5/8-12	----
64002012	1-5/8-12	1-1/16-12	----
64002016	1-5/8-12	1-5/16-12	----
64002024	1-5/8-12	1-7/8-12	----
640024	1-7/8-12	1-7/8-12	----
64002420	1-7/8-12	1-5/8-12	----
64002432	1-7/8-12	2-1/2-12	----
640032	2-1/2-12	2-1/2-12	----
64003224	2-1/2-12	1-7/8-12	----

6400 202702R F50X 1231 C5315

O-RING TO PIPE ADAPTER



PART #	O-RING THREAD 1	MALE PIPE THREAD 2	
640142	7/16-20	1/8	----
640144	7/16-20	1/4	----
640164	9/16-18	1/4	----
640166	9/16-18	3/8	----
640186	3/4-16	3/8	----
640188	3/4-16	1/2	----
6401812	3/4-16	3/4	----
6401108	7/8-14	1/2	----
6401128	1-1/16-12	1/2	----
64011212	1-1/16-12	3/4	----
64011616	1-5/16-12	1	----
64012020	1-5/8-12	1-1/4	----
64012020	1-5/8-12	1-1/4	----
64012424	1-7/8-12	1-1/2	----

6401 F5X 1264R C3249

O-RING TO 37° JIC - SWIVEL ADAPTER



PART #	O-RING THREAD 1	JIC THREAD SIZE 2	
6402O44	7/16-20	7/16-20	----
6402O66	9/16-18	9/16-18	----
6402O68	9/16-18	3/4-16	----
6402O88	3/4-16	3/4-16	----
6402O86	3/4-16	9/16-18	----
6402O1010	7/8-14	7/8-14	----
6402O1212	1-1/16-12	1-1/16-12	----

6402 2266 F65X 1213 9316

O-RING HEX NIPPLE UNION



PART #	O-RING THRD 1	O-RING THRD 2	
6403O4	7/16-20	7/16-20	----
6403O6	9/16-18	9/16-18	----
6403O8	3/4-16	3/4-16	----
6403O12	1-1/16-12	1-1/16-12	----
6403O16	1-5/16-12	1-5/16-12	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS
HYDRAULIC ADAPTERS

FEMALE O-RING TO MALE PIPE ADAPTER



PART #	O-RING THREAD 1	MALE PIPE THREAD 2	
640442	7/16-20	1/8	----
640444	7/16-20	1/4	----
640464	9/16-18	1/4	----
640466	9/16-18	3/8	----
640468	9/16-18	1/2	----
640486	3/4-16	3/8	----
640488	3/4-16	1/2	----
6404108	7/8-14	1/2	----
64041212	1-1/16-12	3/4	----
64041616	1-5/16-12	1	----

6404 2246R 1267R C3239 FHG5

O-RING TO FEMALE PIPE ADAPTER



PART #	O-RING THREAD 1	FEMALE PIPE THREAD 2	
6405O22	5/16-24	1/8	----
6405O42	7/16-20	1/8	----
6405O32	3/8-24	1/8	----
6405O34	3/8-24	1/4	----
6405O44	7/16-20	1/4	----
6405O52	1/2-20	1/8	----
6405O54	1/2-20	1/4	----
6405O62	9/16-18	1/8	----
6405O64	9/16-18	1/4	----
6405O66	9/16-18	3/8	----
6405O68	9/16-8	1/2	----
6405O84	3/4-16	1/4	----
6405O86	3/4-16	3/8	----
6405O88	3/4-16	1/2	----
6405O812	3/4-16	3/4	----
6405O104	7/8-14	1/4	----
6405O106	7/8-14	3/8	----
6405O108	7/8-14	1/2	----
6405O126	1-1/16-12	3/8	----
6405O128	1-1/16-12	1/2	----
6405O1212	1-1/16-12	3/4	----
6405O1216	1-1/16-12	1	----
6405O1612	1-5/16-12	3/4	----
6405O1616	1-5/16-12	1	----
6405O2020	1-5/8-12	1-1/4	----
6405O2416	1-7/8-12	1	----
6405O2420	1-7/8-12	1-1/4	----
6405O2424	1-7/8-12	1-1/2	----
6405O3224	2-1/2-12	1-1/2	----
6405O3232	2-1/2-12	2	----

6405 2216R F50G 1268R C3269

O-RING HEX HEAD PLUG

SAE 090109A



**** Not all sizes are solid***

PART #	O-RING THREAD	
6408O2	5/16-24	----
6408O4	7/16-20	----
6408O5	1/2-20	----
6408O6	9/16-18	----
6408O8	3/4-16	----
6408O10	7/8-14	----
6408O12	1-1/16-12	----
6408O14	1-3/16-12	----
6408O16	1-5/16-12	----
6408O20	1-5/8-12	----
6408O24	1-7/8-12	----

6408 900598 P50N 1265 7237

O-RING HOLLOW - HEX HEAD PLUG

SAE 090109B



PART #	O-RING THREAD	
6408HO2	5/16-24	----
6408HO4	7/16-20	----
6408HO5	1/2-20	----
6408HO6	9/16-18	----
6408HO8	3/4-16	----
6408HO10	7/8-14	----
6408HO12	1-1/16-12	----
6408HO14	1-3/16-12	----
6408HO16	1-5/16-12	----
6408HO20	1-5/8-12	----
6408HO24	1-7/8-12	----

6408HHP FF2138 HP50N 1256 7238 6409

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For more information, visit www.P65Warnings.ca.gov

FEMALE SWIVELS JIC
HYDRAULIC ADAPTERS

O-RING PORT REDUCER/EXPANDER



PART #	O-RING THREAD 1	O-RING THREAD 2	
6410O46	7/16-20	9/16-18	----
6410O64	9/16-18	7/16-20	----
6410O68	9/16-18	3/4-16	----
6410O84	3/4-16	7/16-20	----
6410O86	3/4-16	9/16-18	----
6410O88	3/4-16	3/4-16	----
6410O812	3/4-16	1-1/16-12	----
6410O124	1-1/16-12	7/16-20	----
6410O126	1-1/16-12	9/16-18	----
6410O128	1-1/16-12	3/4-16	----
6410O166	1-5/16-12	9/16-18	----
6410O168	1-5/16-12	3/4-16	----
6410O1612	1-5/16-12	1-1/16-12	----
6410O2012	1-5/8-12	1-1/16-12	----
6410O2016	1-5/8-12	1-5/16-12	----
6410O2412	1-7/8-12	1-1/16-12	----
6410O2416	1-7/8-12	1-5/16-12	----
6410O2420	1-7/8-12	1-5/8-12	----
6410O3216	2-1/2-12	1-5/16-12	----
6410O3220	2-1/2-12	1-5/8-12	----
6410O3224	2-1/2-12	1-7/8-12	----

6410 FF1010 F50G5 1270 7033

JIC SWIVEL NUT ELBOW

SAE 070221
MS 51521



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
65004	7/16-20	7/16-20	----
65006	9/16-18	9/16-18	----
65008	3/4-16	3/4-16	----
650086	3/4-16	9/16-18	----
650010	7/8-14	7/8-14	----
6500108	7/8-14	3/4-16	----
650012	1-1/16-12	1-1/16-12	----
650016	1-5/16-12	1-5/16-12	----
650020	1-5/8-12	1-5/8-12	----
650024	1-7/8-12	1-7/8-12	----
650032	2-1/2-12	2-1/2-12	----

6500 2071R C6X 1236 G5506

JIC SWIVEL TO MALE PIPE ELBOW



PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	
650142	7/16-20	1/8	----
650144	7/16-20	1/4	----
650164	9/16-18	1/4	----
650166	9/16-18	3/8	----
650186	3/4-16	3/8	----
650188	3/4-16	1/2	----
6501108	7/8-14	1/2	----
65011212	1-1/16-12	3/4	----
65011616	1-5/16-12	1	----
65012020	1-5/8-12	1-1/4	----
65012424	1-7/8-12	1-1/2	----
65013232	2-1/2-12	2	----

6501 2250 1247R TF5406

JIC SWIVEL 45° ELBOW

SAE 070321
MS 51522



PART #	JIC THREAD	JIC THREAD SIZE 2	
65024	7/16-20	9/16-18	----
65026	9/16-18	3/4-16	----
65028	3/4-16	7/8-14	----
650210	7/8-14	1-1/16-12	----
650212	1-1/16-12	1-5/16-12	----
650216	1-5/16-12		----

JIC SWIVEL TO FEMALE - PIPE ELBOW



PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	
650344	7/16-20	1/4	----
650364	9/16-18	1/4	----
650366	9/16-18	3/8	----
650386	3/4-16	3/8	----
650388	3/4-16	1/2	----
65031212	1-1/16-12	3/4	----

6502 2070R V6X 1237 C5356

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FEMALE SWIVELS
HYDRAULIC ADAPTERS

JIC SWIVEL CONNECTOR



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2	
650444	7/16-20	7/16-20	----
650466	9/16-18	9/16-18	----
650488	3/4-16	3/4-16	----
65041010	7/8-14	7/8-14	----
65041212	1-1/16-12	1-1/16-12	----
65041616	1-5/16-12	1-5/16-12	----
65042020	1-5/8-12	1-5/8-12	----

6504 1205

JIC SWIVEL TO MALE - PIPE ADAPTER



PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2	
650542	7/16-20	1/8	----
650544	7/16-20	1/4	----
650546	7/16-20	3/8	----
650564	9/16-18	1/4	----
650566	9/16-18	3/8	----
650586	3/4-16	3/8	----
650588	3/4-16	1/2	----
6505128	1-1/16-12	1/2	----
65051212	1-1/16-12	3/4	----
65051612	1-5/16-12	3/4	----
65051616	1-5/16-12	1	----
65052424	1-7/8-12	1-1/2	----

6505 2018 F6X 1211 9100R

JIC SWIVEL TO FEMALE PIPE ADAPTER



PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2	
650642	7/16-20	1/8	----
650644	7/16-20	1/4	----
650664	9/16-18	1/4	----
650666	9/16-18	3/8	----
650668	9/16-18	1/2	----
650686	3/4-16	3/8	----
650688	3/4-16	1/2	----
6506106	7/8-14	3/8	----
6506128	1-1/16-12	1/2	----
65061212	1-1/16-12	3/4	----
65061616	1-5/16-12	1	----
65062020	1-5/8-12	1-1/4	----
65062424	1-7/8-12	1-1/2	----
65063232	2-1/2-12	2	----

6506 2242 1215

JIC SWIVEL BRANCH TEE

SAE 070433
MS 51524



PART #	JIC THREAD SIZE 1 & 2	JIC FEMALE THREAD 3	
660044	7/16-20	7/16-20	----
660066	9/16-18	9/16-18	----
660088	3/4-16	3/4-16	----
660010	7/8-14	7/8-14	----
660012	1-1/16-12	1-1/16-12	----
660016	1-5/16-12	1-5/16-12	----
660020	1-5/8-12	1-5/8-12	----

6600 203101R 55X 1227 C5707

JIC SWIVEL RUN TEE

SAE 070432
MS 51523

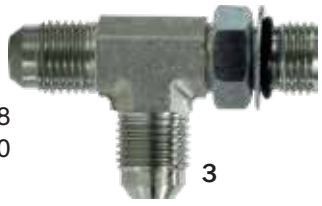


PART #	JIC THREAD SIZE 1 & 3	JIC FEMALE THREAD 2	
66024	7/16-20	7/16 -20	----
66025	1/2-20	1/2-20	----
66026	9/16-18	9/16-18	----
66028	3/4-16	3/4-16	----
660212	1-1/16-12	1-1/16-12	----
660216	1-5/16-12	1-5/16-12	----
660224	1-7/8-12	1-7/8-12	----

6602 203102R R6X 1248 C5706

JIC TO O-RING RUN TEE

SAE 070428
MS 51530



PART #	JIC THREAD SIZE 1 & 3	O-RING THREAD SIZE 2	
6804NWO4	7/16-20	7/16-20	----
6804NWO6	9/16-18	9/16-18	----
6804NWO8	3/4-16	3/4-16	----
6804NWO10	7/8-14	7/8-14	----
6804NWO12	1-1/16-12	1-1/16-12	----
6804NWO16	1-5/16-12	1-5/16-12	----

6804 203005R R50X 1266R C5716

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS
HYDRAULIC ADAPTERS

JIC TO O-RING ELBOW CONNECTOR

SAE 070220
MS 51527



PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	
6801NWO4	7/16-20	7/16-20	----
6801NWO46	7/16-20	9/16-18	----
6801NWO48	7/16-20	3/4-16	----
6801NWO6	9/16-18	9/16-18	----
6801NWO64	9/16-18	7/16-20	----
6801NW068	9/16-18	3/4-16	
6801NWO612	9/16-18	1-1/16-12	----
6801NWO8	3/4-16	3/4-16	----
6801NWO86	3/4-16	9/16-18	----
6801NWO810	3/4-16	7/8-14	----
6801NWO812	3/4-16	1-1/16-12	----
6801NWO816	3/4-16	1-5/16-12	----
6801NWO10	7/8-14	7/8-14	----
6801NWO106	7/8-14	9/16-18	----
6801NWO108	7/8-14	3/4-16	----
6801NWO1016	7/8-14	1-5/16-12	----
6801NWO12	1-1/16-12	1-1/16-12	----
6801NWO128	1-1/16-12	3/4-16	----
6801NWO1210	1-1/16-12	7/8-14	----
6801NWO1216	1-1/16-12	1-5/16-12	----
6801NWO16	1-5/16-12	1-5/16-12	----
6801NWO1612	1-5/16-12	1-1/16-12	----
6801NWO1620	1-5/16-12	1-5/8-12	----
6801NWO20	1-5/8-12	1-5/8-12	----
6801NWO2016	1-5/8-12	1-5/16-12	----
6801NWO2024	1-5/8-12	1-7/8-12	----
6801NWO24	1-7/8-12	1-7/8-12	----
6801NWO32	2-1/2-12	2-1/2-12	----

6801 2062R C50X 1238L C5515

JIC TO O-RING - BRANCH TEE

SAE 070429
MS 51529



PART #	JIC THREAD SIZE 1 & 2	O-RING THREAD SIZE 3	
6803NWO4	7/16-20	7/16-20	----
6803NWO6	9/16-18	9/16-18	----
6803NWO8	3/4-16	3/4-16	----
6803NWO10	7/8-14	7/8-14	----
6803NWO12	1-1/16-12	1-1/16-12	----
6803NWO16	1-5/16-12	1-5/16-12	----

6803 203003X S50X 1265R C5715

JIC TO O-RING 45° ELBOW

SAE 070320
MS 51528



PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2	
6802NWO2	5/16-24	5/16-24	----
6802NWO4	7/16-20	7/16-20	----
6802NWO46	7/16-20	9/16-18	----
6802NWO6	9/16-18	9/16-18	----
6802NWO68	9/16-18	3/4-16	----
6802NWO8	3/4-16	3/4-16	----
6802NWO86	3/4-16	9/16-18	----
6802NWO810	3/4-16	7/8-14	----
6802NWO812	3/4-16	1-1/16-12	----
6802NWO10	7/8-14	7/8-14	----
6802NWO108	7/8-14	3/4-16	----
6802NWO1012	7/8-14	1-1/16-12	----
6802NWO12	1-1/16-12	1-1/16-12	----
6802NWO1216	1-1/16-12	1-5/16-12	----
6802NWO16	1-5/16-12	1-5/16-12	----
6802NWO1612	1-5/16-12	1-1/16-12	----
6802NWO1620	1-5/16-12	1-5/8-12	----
6802NWO20	1-5/8-12	1-5/8-12	----
6802NWO2016	1-5/8-12	1-5/16-12	----
6802NWO24	1-7/8-12	1-7/8-12	----
6802NWO32	2-1/2-12	2-1/2-12	----

6802 2061 V50X 1240R C5365

O-RING TO - FEMALE PIPE ELBOW



PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	
6805NWO42	7/16-20	1/8	----
6805NWO44	7/16-20	1/4	----
6805NWO64	9/16-18	1/4	----
6805NWO66	9/16-18	3/8	----
6805NWO86	3/4-16	3/8	----
6805NWO88	3/4-16	1/2	----
6805NWO108	7/8-14	1/2	----
6805NWO128	1-1/16-12	1/2	----
6805NWO1212	1-1/16-12	3/4	----
6805NWO1616	1-5/16-12	1	----
6805NWO2020	1-5/8-12	1-1/4	----
6805NWO2424	1-7/8-12	1-1/2	----

6805 206801R AE0G 1264 C3459

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RINGS
HYDRAULIC ADAPTERS

O-RING TO MALE PIPE ELBOW



PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2	
6806NWO44	7/16-20	1/4	----
6806NWO66	9/16-18	3/8	----
6806NWO88	3/4-16	1/2	----
6806NWO1212	1-1/16-12	3/4	----
6806NWO1616	1-5/16-12	1	----

6806 1263 TF3569

O-RING TO 37° JIC SWIVEL NUT TO O-RING ELBOW



PART #	O-RING THREAD SIZE 1	JIC THREAD SIZE 2	
6809NWO44	7/16-20	7/16-20	----
6809NWO66	9/16-18	9/16-18	----
6809NWO88	3/4-16	3/4-16	----
6809NWO1212	1-1/16-12	1-1/16-12	----

FEMALE O-RING TO MALE O-RING ELBOW



PART #	O-RING THREAD SIZE 1	O-RING THREAD SIZE 2	
6815NWO44	7/16-20	7/16-20	----
6815NWO66	9/16-18	9/16-18	----
6815NWO88	3/4-16	3/4-16	----
6815NWO1010	7/8-14	7/8-14	----
6815NWO1212	1-1/16-12	1-1/16-12	----

MALE O-RING SWIVEL ADAPTER

SAE 140157



PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6900O42	7/16-20	1/8	----
6900O44	7/16-20	1/4	----
6900O46	7/16-20	3/8	----
6900O48	7/16-20	1/2	----
6900O64	9/16-18	1/4	----
6900O66	9/16-18	3/8	----
6900O68	9/16-18	1/2	----
6900O84	3/4-16	1/4	----
6900O86	3/4-16	3/8	----
6900O88	3/4-16	1/2	----
6900O812	3/4-16	3/4	----
6900O104	7/8-14	1/4	----
6900O106	7/8-14	3/8	----
6900O108	7/8-14	1/2	----
6900O1012	7/8-14	3/4	----
6900O128	1-1/16-12	1/2	----
6900O1212	1-1/16-12	3/4	----
6900O1612	1-5/16-12	3/4	----
6900O1616	1-5/16-12	1	----

6900 2066R 1235 9315

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov

6401 2068R 1271 9515

STEEL SAE O-RING
HYDRAULIC ADAPTERS

90° O-RING SWIVEL ADAPTER

SAE 140257



PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6901NWO42	7/16-20	1/8	----
6901NWO44	7/16-20	1/4	----
6901NWO64	9/16-18	1/4	----
6901NWO66	9/16-18	3/8	----
6901NWO68	9/16-18	1/2	----
6901NWO84	3/4-16	1/4	----
6901NWO86	3/4-16	3/8	----
6901NWO88	3/4-16	1/2	----
6901NWO812	3/4-16	3/4	----
6901NWO104	7/8-14	1/4	----
6901NWO106	7/8-14	3/8	----
6901NWO108	7/8-14	1/2	----
6901NWO126	1-1/16-12	3/8	----
6901NWO128	1-1/16-12	1/2	----
6901NWO1212	1-1/16-12	3/4	----
6901NWO1612	1-5/16-12	3/4	----
6901NWO1616	1-5/16-12	1	----
6901NWO2016	1-5/8-12	1	----
6901NWO2020	1-5/8-12	1-1/4	----
6901NWO2424	1-7/8-12	1-1/2	----
6901NWO3232	2-1/2-12	2	----

45° O-RING SWIVEL ADAPTER

SAE 140357



PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2	
6902NWO42	7/16-20	1/8	----
6902NWO44	7/16-20	1/4	----
6902NWO46	7/16-20	3/8	----
6902NWO64	9/16-18	1/4	----
6902NWO66	9/16-18	3/8	----
6902NWO68	9/16-18	1/2	----
6902NWO84	3/4-16	1/4	----
6902NWO86	3/4-16	3/8	----
6902NWO88	3/4-16	1/2	----
6902NWO108	7/8-14	1/2	----
6902NWO128	1-1/16-12	1/2	----
6902NWO1212	1-1/16-12	3/4	----
6902NWO1616	1-5/16-12	1	----

O-RINGS

VITON 75 SAE BOSS O-RING

Fluorocarbon



PART #	O-RING THREAD	
400122	5/16-24	----
400144	7/16-20	----
400166	9/16-18	----
400188	3/4-16	----
400110	7/8-14	----
400112	1-1/16-12	----
400116	1-5/16-12	----
400120	1-5/8-12	----
400124	1-7/8-12	----
400132	2-1/2-12	----

NITRILE 90 SAE BOSS O-RING



PART #	O-RING THREAD	
400022	5/16-24	----
400044	7/16-20	----
400066	9/16-18	----
400088	3/4-16	----
400010	7/8-14	----
400012	1-1/16-12	----
400014	1-3/16-12	----
400016	1-5/16-12	----
400020	1-5/8-12	----
400024	1-7/8-12	----
400032	2-1/2-12	----

BRAZE TUBE NUT
(SLEEVE REQUIRED)

SAE 520110



PART #	TUBE O.D.	BRAZE TUBE O.D.	
FSO3184	1/4	.25	----
FSO3186	3/8	.38	----
FSO3188	1/2	.50	----
FSO31810	5/8	.62	----
FSO31812	3/4	.72	----
FSO31816	1	1.00	----
FSO31820	1 1/4	1.25	----
FSO31824	1 1/2	1.50	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING FACE SEAL ADAPTERS
HYDRAULIC ADAPTERS

BRAZE TUBE SLEEVE

SAE 520115



PART #	TUBE O.D.	
FSO3194	1/4	----
FSO3196	3/8	----
FSO3198	1/2	----
FSO31910	5/8	----
FSO31912	3/4	----
FSO31916	1	----
FSO31920	1-1/4	----

FF319 FF3019

See Page 414 for JIC Nut and Sleeve

CAP

SAE 520112



• Two Piece Nut/ Insert

PART #	TUBE O.D.	FACE SEAL THREAD	
FSO304C4	1/4	9/16-18	----
FSO304C6	3/8	11/16-16	----
FSO304C8	1/2	13/16-16	----
FSO304C10	5/8	1-14	----
FSO304C12	3/4	1-3/16-12	----
FSO304C16	1	1-7/16-12	----
FSO304C20	1-1/4	1-11/16-12	----
FSO304C24	1-1/2	2-12	----

FF304C

BULKHEAD LOCKNUT

SAE 520118



PART #	THREAD SIZE	
FSO3064	9/16-18	----
FSO3066	11/16-16	----
FSO3068	13/16-16	----
FSO30612	1-3/16-12	----
FSO30616	1-7/16-12	----

FF403

MALE UNION CONNECTOR

SAE 520102

1  2

PART #	TUBE O.D.	FACE SEAL THREAD 1&2	
FSO240344	1/4	9/16-18	----
FSO240366	3/8	11/16-16	----
FSO240388	1/2	13/16-16	----
FSO24031212	3/4	1-3/16-12	----
FSO24031616	1	1-7/16-12	----

FF2403 FF1203

MALE O-RING FACE SEAL ADAPTER

1  2

PART #	FACE SEAL THREAD 1	MALE PIPE SIZE 2	
FSO240444	9/16-18	1/4-18	----
FSO240446	9/16-18	3/8	----
FSO240464	11/16-16	1/4-18	----
FSO240466	11/16-16	3/8-18	----
FSO240484	13/16-16	1/4-18	----
FSO240486	13/16-16	3/8	----
FSO240488	13/16-16	1/2-14	----
FSO2404108	1-14	1/2	----
FSO24041212	1-3/16-12	3/4-14	----
FSO24041616	1-7/16-12	1-11-1/2	----
FSO24042020	1-11/16-12	1-1/4	----
FSO24042424	2-12	1-1/2	----

FF2404 4205 FLO

FEMALE ORFS TO MALE ORFS REDUCER

1  2

PART #	FEMALE FACE SEAL SIZE 1	MALE FACE SEAL THREAD 2	
FSO240664	11/16-16	9/16-18	----
FSO240684	13/16-16	9/16-18	----
FSO2406106	1-14	11/16-16	----
FSO2406108	1-14	13/16-16	----
FSO2406126	1-3/16-12	11/16-16	----

FF2406 TRLON

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

PLUG

SAE 520109



PART #	TUBE O.D.	FACE SEAL THREAD	
FSO24084	1/4	9/16-18	----
FSO24086	3/8	11/16-16	----
FSO24088	1/2	13/16-16	----
FSO240810	5/8	1-14	----
FSO240812	3/4	1-3/8-12	----
FSO240816	1	1-7/16-12	----
FSO240820	1-1/4	1-11/16-12	----
FSO240824	1-1/2	2-12	----

FF2408 FF1254 4229 PNLO

ORFS UNION ELBOW 90°



PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	
FS250044	9/16-18	9/16-18	----
FS250066	11/16-16	11/16-16	----
FS25001010	1-14	1-14	----
FS25001212	1-3/16-12	1-3/16-12	----
FS25001616	1-7/16-12	1-7/16-12	----

FF2500 4505 ELO

ORFS TO MALE ELBOW

SAE 520202



PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	
FS250144	9/16-18	1/4	----
FS250164	11/16-16	1/4	----
FS250166	11/16-16	3/8	----
FS250186	13/16-16	3/8	----
FS250188	13/16-16	1/2	----
FS2501812	13/16-16	3/4	----
FS2501108	1-14	1/2	----
FS25011012	1-14	3/4	----
FS2501128	1-3/8-12	1/2	----
FS25011212	1-3/8-12	3/4	----
FS25011216	1-3/8-12	1	----
FS25011616	1-7/16-12	1	----
FS25012020	1-11/16-12	1-1/4	----
FS25012424	2-12	1-1/2	----

FF2501 FF1208 4405 CLO

ORFS TO PIPE ELBOW 45°



PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2	
FS250344	9/16-18	1/4	----
FS250366	11/16-16	3/8	----
FS250388	13/16-16	1/2	----
FS25031212	1-3/16-12	3/4	----
FS25031616	1-7/16-12	1	----

FF2503 4355 VLO

ORFS UNION TEE



PART #	FACE SEAL THREAD 1+2+3	
FS260344	9/16-18	----
FS260366	11/16-16	----
FS260388	13/16-16	----
FS26031212	1-3/16-12	----

MALE FLAT FACE TO FEMALE 37 ° SWIVEL



PART #	FACE SEAL THREAD 1	JIC THREAD 2	
FS640244	9/16-18	7/16-20	----
FS640266	11/16-16	9/16-18	----
FS640288	13/16-16	3/4-16	----
FS64021010	1-14	7/8-14	----
FS64021212	1-3/16-12	1-1/16-12	----

FF6402 FF1294

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

MALE ORFS TO ORB CONNECTOR

SAE 520120



PART #	FACE SEAL THREAD 1	O-RING THREAD 2	
FS6400O44	9/16-18	7/16-20	----
FS6400O46	9/16-18	9/16-18	----
FS6400O64	11/16-16	7/16-20	----
FS6400O66	11/16-16	9/16-18	----
FS6400O68	11/16-16	3/4-16	----
FS6400O86	13/16-16	9/16-18	----
FS6400O88	13/16-16	3/4-16	----
FS6400O810	13/16-16	7/8-14	----
FS6400O108	1-14	3/4-16	----
FS6400O1010	1-14	7/8-14	----
FS6400O1012	1-14	1-1/16-12	----
FS6400O128	1-3/16-12	3/4-16	----
FS6400O1210	1-3/16-12	7/8-14	----
FS6400O1212	1-3/16-12	1-1/16-12	----
FS6400O1216	1-3/16-12	1-5/16-12	----
FS6400O1612	1-7/16-12	1-1/16-12	----
FS6400O1616	1-7/16-12	1-5/16-12	----
FS6400O1620	1-7/16-12	1-5/8-12	----
FS6400O2020	1-11/16-12	1-5/8-12	----
FS6400O2024	1-11/16-12	1-7/8-12	----
FS6400O2424	2-12	1-7/8-12	----

4315 FF6400 FF1231

SWIVEL NUT ELBOW



PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2	
FS650044	9/16-18	9/16-18	----
FS650066	11/16-16	11/16-16	----
FS650088	13/16-16	13/16-16	----
FS65001212	1-3/16-12	1-3/16-12	----

FF6500 FF1236

MALE JIC 37° FLARE TO FEMALE FLAT FACE SWIVEL



PART #	JIC THREAD SIZE 1	FACE SEAL THREAD 2	
FS650444	7/16-20	9/16-18	----
FS650466	9/16-18	11/16-16	----
FS650488	3/4-16	13/16-16	----
FS65041010	7/8-14	1-14	----
FS65041616	1-5/16-12	1-7/16-12	----

FF6504 FF1296

O-RING ELBOW CONNECTOR



PART #	FACE SEAL THREAD 1	O-RING THREAD 2	
FS680144	9/16-18	7/16-20	----
FS680146	9/16-18	9/16-18	----
FS680164	11/16-16	7/16-20	----
FS680166	11/16-16	9/16-18	----
FS680168	11/16-16	3/4-16	----
FS680186	13/16-16	9/16-18	----
FS680188	13/16-16	3/4-16	----
FS6801810	13/16-16	7/8-14	----
FS6801108	1-14	3/4-16	----
FS68011012	1-14	1-1/16-12	----
FS68011210	1-3/16-12	7/8-14	----
FS68011212	1-3/16-12	1-1/16-12	----
FS68011216	1-3/16-12	1-5/16-12	----
FS68011616	1-7/16-12	1-5/16-12	----
FS68011620	1-7/16-12	1-5/8-12	----
FS68012016	1-11/16-12	1-5/16-12	----
FS68012020	1-11/16-12	1-5/8-12	----
FS68012424	2-12	1-7/8-12	----

FF6801 FF1238 4515

ORFS TO O-RING ELBOW 45°



PART #	FACE SEAL THREAD 1	O-RING SIZE 2	
FS680244	9/16-18	7/16-20	----
FS680266	11/16-16	9/16-18	----
FS680288	13/16-16	3/4-16	----
FS68021010	1-14	7/8-14	----
FS68021212	1-3/16-12	1-1/16-12	----
FS68021616	1-7/16-12	1-5/16-12	----
FS68022020	1-11/16-12	1-5/8-12	----

FF6802 4365 V5OLO

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPT ADAPTERS
HYDRAULIC ADAPTERS

STRAIGHT THREAD SWIVEL NUT ELBOW



PART #	O-RING THREAD 1	FACE SEAL THREAD 2	
FS680944	7/16-20	9/16-18	----
FS680966	9/16-18	11/16-16	----
FS680988	3/4-16	13/16-16	----
FS68091212	1-1/16-12	1-3/16-12	----

FF6809 FF1239 4535 AOELC

STEEL BSPT ADAPTERS

JIC MALE CONNECTOR BSPT



PART #	JIC THREAD SIZE 1	MALE BSPT 2	
700042	7/16-20	1/8-28	----
700044	7/16-20	1/4-19	----
700064	9/16-18	1/4-19	----
700066	9/16-18	3/8-19	----
700068	9/16-18	1/2-14	----
700086	3/4-16	3/8-19	----
700088	3/4-16	1/2-14	----
7000812	3/4-16	3/4-14	----
7000108	7/8-14	1/2-14	----
70001012	7/8-14	3/4-14	----
7000128	1-1/16-12	1/2-14	----
70001212	1-1/16-12	3/4-14	----
70001616	1-5/16-12	1-11	----

3404 3O5

JIC MALE ELBOW BSPT



PART #	JIC THREAD SIZE 1	MALE BSPT 2	
720042	7/16-20	1/8-28	----
720044	7/16-20	1/4-19	----
720064	9/16-18	1/4-19	----
720066	9/16-18	3/8-19	----
720068	9/16-18	1/2-14	----
720086	3/4-16	3/8-19	----
720088	3/4-16	1/2-14	----
72001212	1-1/16-12	3/4-14	----

3501 315

BSPT HEX NIPPLE



PART #	MALE BSPT 1	MALE BSPT 2	
752022	1/8-28	1/8-28	----
752044	1/4-19	1/4-19	----
752066	3/8-19	3/8-19	----
752088	1/2-14	1/2-14	----
75201010	5/8-14	5/8-14	----
75201212	3/4-14	3/4-14	----

3520 MBT

BSPT PLUG



PART #	BSPT	
95082	1/8-28	----
95084	1/4-19	----
95086	3/8-19	----
95088	1/2-14	----
950812	3/4-14	----
950816	1-11	----

100B-Y KA-RM MHL 296

STEEL BSPP ADAPTERS

BSPP HEX NIPPLE



PART #	MALE BSPP 1	MALE BSPP 2	
742022	1/8-28	1/8-28	----
742042	1/4-19	1/8-28	----
742064	3/8-19	1/4-19	----
742066	3/8-19	3/8-19	----
742086	1/2-14	3/8-19	----
742088	1/2-14	1/2-14	----
7420108	5/8-14	1/2-14	----
7420128	3/4-14	1/2-14	----
74201212	3/4-14	3/4-14	----
74201612	1-11	3/4-14	----
74201616	1-11	1-11	----

3420 MB 9022

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL BSPP ADAPTERS
HYDRAULIC ADAPTERS

BSPP COUPLING



PART #	BSPP	
74252	1/8-28	----
74254	1/4-19	----
74258	1/2-14	----
742510	5/8-14	----
742512	3/4-14	----
742516	1-11	----

3425 FB

JIC TO FEMALE BSPP STRAIGHT SWIVEL



PART #	JIC THREAD SIZE 1	FEMALE BSPP SWIVEL 2	
72404	7/16-20	1/4-19	----
72406	9/16-18	3/8-19	----
72408	3/4-16	1/2-14	----
724010	7/8-14	5/8-14	----
724012	1-1/16-12	3/4-14	----
724016	1-5/16-12	1-11	----

3240 MJFBS

JIC TO BSPP MALE ELBOW



PART #	JIC THREAD SIZE 1	MALE BSPP 2	
7202NWO42	7/16-20	1/8-28	----
7202NWO44	7/16-20	1/4-19	----
7202NWO64	9/16-18	1/4-19	----
7202NWO66	9/16-18	3/8-19	----
7202NWO68	9/16-18	1/2-14	----
7202NWO86	3/4-16	3/8-19	----
7202NWO88	3/4-16	1/2-14	----
7202NWO812	3/4-16	3/4-14	----
7202NWO108	7/8-14	1/2-14	----
7202NWO1212	1-1/16-12	3/4-14	----
7202NWO1216	1-1/16-12	1-11	----
7202NWO1616	1-5/16-12	1-11	----

3801 315

JIC TO BSPP 45° ELBOW



PART #	JIC THREAD SIZE 1	MALE BSPP 2	
78024	7/16-20	1/4-19	----
78026	9/16-18	3/8-19	----
78028	3/4-16	1/2-14	----
780212	1-1/16-12	3/4-14	----
780216	1-5/16-12	1-11	----

3802 35J

BSPP TO MALE PIPE NIPPLE



PART #	MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2	
78252	1/8-28	1/8	----
78254	1/4-19	1/4	----
78256	3/8-19	3/8	----
78258	1/2-14	1/2	----
782512	3/4-14	3/4	----
782516	1-11	1	----

MBMP 3825

JIC TO BSPP MALE CONNECTOR



PART #	JIC THREAD SIZE 1	MALE BSPP 2	
700242	7/16-20	1/8-28	----
700244	7/16-20	1/4-19	----
700246	7/16-20	3/8-19	----
700248	7/16-20	1/2-14	----
700264	9/16-18	1/4-19	----
700266	9/16-18	3/8-19	----
700268	9/16-18	1/2-14	----
700286	3/4-16	3/8-19	----
700288	3/4-16	1/2-14	----
7002812	3/4-16	3/4-14	----
7002108	7/8-14	1/2-14	----
70021212	1-1/16-12	3/4-14	----
70021216	1-1/16-12	1-11	----
70021616	1-5/16-12	1-11	----

30J 3800

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

JIC TO BSPP STRAIGHT SWIVEL



PART #	JIC THREAD SIZE 1	MALE BSPP 2	
702242	7/16-20	1/8-28	----
702244	7/16-20	1/4-19	----
702266	9/16-18	3/8-19	----
702288	3/4-16	1/2-14	----
7022108	7/8-14	1/2-14	----
70221212	1-1/16-12	3/4-14	----
70221616	1-5/16-12	1-11	----

3402 3055

HEX HEAD PLUG BSPP



PART #	MALE BSPP	
9522P2	1/8-28	----
9522P4	1/4-19	----
9522P6	3/8-19	----
9522P8	1/2-14	----
9522P12	3/4-14	----
9522P16	1-11	----

3408

HOLLOW HEX PLUG BSPP



PART #	MALE BSPP	
9522H2	1/8-28	----
9522H4	1/4-19	----
9522H6	3/8-19	----
9522H8	1/2-14	----
9522H12	3/4-14	----
9522H16	1-11	----

3408 HHP

FEMALE ADAPTER BSPP



PART #	FEMALE PIPE 1	MALE BSPP 2	
704222	1/8	1/8-28	----
704242	1/4	1/8-28	----
704244	1/4	1/4-19	----
704266	3/8	3/8-19	----
704288	1/2	1/2-14	----
70421212	3/4	3/4-14	----
70421616	1	1-11	----

3455 MMFP

STEEL METRIC ADAPTERS

MALE CONNECTOR



PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7005410	7/16-20	10x1.0	----
7005412	7/16-20	12x1.5	----
7005414	7/16-20	14x1.5	----
7005418	7/16-20	18x1.5	----
7005512	1/2-20	12x1.5	----
7005514	1/2-20	14x1.5	----
7005614	9/16-18	14x1.5	----
7005616	9/16-18	16x1.5	----
7005618	9/16-18	18x1.5	----
7005816	3/4-16	16x1.5	----
7005818	3/4-16	18x1.5	----
7005822	3/4-16	22x1.5	----
70051018	7/8-14	18x1.5	----
70051020	7/8-14	20x1.5	----
70051022	7/8-14	22x1.5	----
70051222	1-1/16-12	22x1.5	----

Port-seal crush washer and O-ring included 7400 30J (R) 7011

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL METRIC ADAPTERS
HYDRAULIC ADAPTERS

MALE ELBOW



PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7205NWO410	7/16-20	10x1.0	----
7205NWO412	7/16-20	12x1.5	----
7205NWO414	7/16-20	14x1.5	----
7205NWO512	1/2-20	12x1.5	----
7205NWO614	9/16-18	14x1.5	----
7205NWO616	9/16-18	16x1.5	----
7205NWO816	3/4-16	16x1.5	----
7205NWO818	3/4-16	18x1.5	----
7205NWO822	3/4-16	22x1.5	----
7205NWO1018	7/8-14	18x1.5	----

Port-seal crush washer and O-ring included

7801 315 (R)



PART #	JIC THREAD SIZE 1	METRIC THREAD 2	
7025410	7/16-20	10x1.0	----
7025412	7/16-20	12x1.5	----
7025512	1/2-20	12x1.5	----
7025614	9/16-18	14x1.5	----
7025616	9/16-18	16x1.5	----
7025816	3/4-16	16x1.5	----
70251022	7/8-14	22x1.5	----
70251227	1-1/16-12	27x2.0	----
70251633	1-5/16-12	33x2.0	----

7402 30JS (R)

HEX HEAD PLUG METRIC PARALLEL



PART #	METRIC THREAD	
8555P10	10x1.0	----
8555P12	12x1.5	----
8555P14	14x1.5	----
8555P16	16x1.5	----
8555P18	18x1.5	----
8555P20	20x1.5	----
8555P22	22x1.5	----
8555P26	26x1.5	----
8555P30	30x1.5	----

7408

HOLLOW HEX HEAD PLUG



PART #	METRIC THREAD	
8555H10	10x1.0	----
8555H12	12x1.5	----
8555H14	14x1.5	----
8555H16	16x1.5	----
8555H18	18x1.5	----
8555H20	20x1.5	----
8555H22	22x1.5	----
8555H26	26x1.5	----
8555H30	30x1.5	----

7408 HHP

FEMALE ADAPTER



PART #	FEMALE PIPE THREAD 1	METRIC THREAD 2	
7045210	1/8	10x1.0	----
7045412	1/4	12x1.5	----
7045414	1/4	14x1.5	----
7045612	3/8	12x1.5	----
7045616	3/8	16x1.5	----
7045618	3/8	18x1.5	----
7045816	1/2	16x1.5	----
7045818	1/2	18x1.5	----
7045822	1/2	22x1.5	----
70451227	3/4	27x2.0	----
70451633	1	33x2.0	----

MMFP (R)

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ISO A AND B INTERCHANGE

HYDRAULIC ADAPTERS

THREAD TO CONNECT, DRYBREAK NO-SPILL QUICK CONNECT



- Brass Body
- Steel Wing Nut
- Buna-Seal (-40° to +250°F)

Aeroquip 5100
Parker 6100
Snaptite B78



- Bonded Face Seal
- External ORing Alleviates Full Connection

PART #	BODY SIZE	FEMALE NPT	MAX PSI		PART #	BODY SIZE	FEMALE NPT	MAX PSI	
61150	3/4	1/2	3000	----	61050	3/4	1/2	3000	----
61152	3/4	3/4	3000	----	61052	3/4	3/4	3000	----
61153	1	1	3000	----	61053	1	1	3000	----
61154	1-1/4	1-1/4	2750	----	61054	1-1/4	1-1/4	2750	----

FEATURES - **ISO A and ISO B**

- Poppet valves to prevent uncoupled leakage
- Critical parts are induction hardened for durability
- Dependable ball-locking mechanism holds the maling halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO 7241-1 ISO-A Interchange (Connected)				
Body Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
3/4"	4,000	275	14,800	1,000
1"	4,000	275	12,400	850



INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56



ISO-A FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
ANV14F	1/4"	1/4"	----
ANV38F	3/8"	3/8"	----
ANV12F	1/2"	1/2"	----
ANV34F	3/4"	3/4"	----
ANV1F	1"	1"	----

ISO-A FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
ANV14M	1/4"	1/4"	----
ANV38M	3/8"	3/8"	----
ANV12M	1/2"	1/2"	----
ANV34M	3/4"	3/4"	----
ANV1M	1"	1"	----

ISO 7241-1 Series B ISO-B Interchange (Connected)								
Body Size	*Steel Coupler/ Plug*				*Brass Coupler/ Plug*			
	Max. Working		*Burst*		*Max. Working*		*Burst*	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
1/4"	5,000	345	22,500	1,550	3,000	200	15,000	1,000
3/8"	4,000	275	16,500	1,150	2,500	175	12,000	800
1/2"	4,000	275	16,000	1,100	2,500	175	11,500	750
3/4"	4,000	275	16,500	1,150	2,000	150	12,000	800
1"	4,000	275	16,000	1,100	1,500	100	8,500	800

INTERCHANGE DATA:

- Parker 60 Series, Snap-tite 72 series, Dixon 'H' series
- Hansen HK - series, Aeroquip/ Eaton FDH5

B=BRASS



BRASS - HNV SERIES PLUG



BRASS - HNV SERIES COUPLER



ISO-B FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
HNV14F	1/4"	1/4"	----
HNV14FB	1/4"	1/4"	----
HNV38F	3/8"	3/8"	----
HNV38FB	3/8"	3/8"	----
HNV12F	1/2"	1/2"	----
HNV12FB	1/2"	1/2"	----
HNV34F	3/4"	3/4"	----
HNV34FB	3/4"	3/4"	----



ISO-B FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
HNV14M	1/4"	1/4"	----
HNV14MB	1/4"	1/4"	----
HNV38M	3/8"	3/8"	----
HNV38MB	3/8"	3/8"	----
HNV12M	1/2"	1/2"	----
HNV12MB	1/2"	1/2"	----
HNV34M	3/4"	3/4"	----
HNV34MB	3/4"	3/4"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLUSH FACE ISO
HYDRAULIC ADAPTERS

FEATURES
• Steel construction, zinc plated trivalent finish. Hardened Nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
• This Anti-Blowout Nitrile/ PTFE bonded seal is designed to prevent blow out or damage during servere service conditions.
• Durable ball-locking mechanism assures reliable connection everytime.
• Temp Range -65° to +250°

ISO 16028

FLUSH FACE

Body Size	Steel Coupler/ Plug Coupled			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
5/8"	4,000	275	14,800	1,000
3/4"	4,000	275	12,400	850
1"	3,000	200	12,600	850

FF Series
HTMC
74C



FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	
FF14F	1/4"	1/4"	----
FF38F	3/8"	3/8"	----
FF12F	1/2"	1/2"	----
FF3812F	3/8"	1/2"	----
FF1234F	1/2"	3/4"	----
FF3416F	3/4"	1"	----
FF34F	3/4"	3/4"	----
FF-1-F	1"	1"	----

FF Series
HTMN
74N



FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	
FF14M	1/4"	1/4"	----
FF38M	3/8"	3/8"	----
FF12M	1/2"	1/2"	----
FF3812M	3/8"	1/2"	----
FF1234M	1/2"	3/4"	----
FF3416M	3/4"	1"	----
FF34M	3/4"	3/4"	----
FF1M	1"	1"	----

FLAT FACE THREAD LOCK - VEP QUICK COUPLING

SPECIFICATIONS

BODY SIZE (IN)	1/2(12)	3/4(34)	1(1)	1-1/2(24)
Rated Pressure (PSI)	7000	7000	6000	5000
Rated Flow (GPM)	12	50	88	152
Temperature Range	-20°C +120°C			

Standard seal material is **NBR**

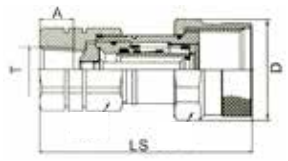
Test Fluid-Oil = 200 SUS

APPLICATIONS
• Widely used in public equipment
• Portable construction equipment.
• Hydraulic tools
• Vehicles

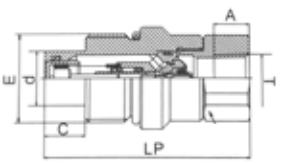
FEATURES
• New valve design provides better resistance from high flow and the pressure of impulse, thus providing advanced performance.
• Special nipple design for connecting under pressure, allows connection and disconnection with high residual pressures.
• The LSQ-VEP series employs a threaded sleeve locking mechanism, mates with matching male threads on the coupler.
• New plating treatment provides advanced anti-rust performance.
• LSQ-VEP series couplings employ flush valving when connecting or disconnecting, therefore only a small amount of fluid can be lost during disconnecting or air inclusion during reconnection.
• The Anti-Blowout bonded seal is designed to prevent blow-out or damage during severe service conditions.
• Machined form solid steel barstock for durability. Compatible with most other VEP series.

• O-Ring SAE Boss Thread available with import lead time (same list price)









FEMALE COUPLER

PART #	LS	D	A	NPT	
LSQVEP12SF	4.09	1.13	0.67	1/2	----
LSQVEP34SF	4.49	2.13	0.79	3/4	----
LSQVEP1SF	5.28	2.33	0.83	1	----
LSQVEP20SF	5.71	2.72	0.83	1-1/4	----
LSQVEP24SF	7.41	3.63	0.83	1-1/2	----

FEMALE PLUG

PART #	LS	D	A	NPT	
LSQVEP12PF	4.09	1.13	0.67	1/2	----
LSQVEP34PF	4.49	2.13	0.79	3/4	----
LSQVEP1PF	5.28	2.33	0.83	1	----
LSQVEP20PF	5.71	2.72	0.83	1-1/4	----
LSQVEP24PF	7.41	3.63	0.83	1-1/2	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

QUICK DISCONNECT - HYDRAULIC JACK

HYDRAULIC ADAPTERS

AG - Series Agricultural Interchange (Connected)				
Nominal Size	*Steel Coupler/ Plug*			
	Maximum Working		*Burst*	
	PSI	Bar	PSI	Bar
1/4"	4,000	275	21,000	1,500
3/8"	4,000	275	23,100	1,600
1/2"	4,000	275	16,500	1,100
3/4"	3,000	200	10,300	700
1"	3,000	200	13,000	900

Snap-Tite 60 Series





FEMALE PIPE COUPLER

Part #	Body Size	NPT	
NV14F	1/4"	1/4"	----
NV38F	3/8"	3/8"	----
NV12F	1/2"	1/2"	----
NV34F	3/4"	3/4"	----
NV1F	1"	1"	----

FEMALE PIPE PLUG

Part #	Body Size	NPT	
NV14M	1/4"	1/4"	----
NV38M	3/8"	3/8"	----
NV12M	1/2"	1/2"	----
NV34M	3/4"	3/4"	----
NV1M	1"	1"	----

FEATURES

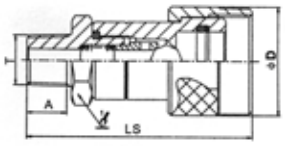
- Heavy duty heat treated poppet: valves are standard with rugged, specially-designed seals made of nitrite for leak-free performance in the toughest application.
- High-strength steel valve guides designed for high flow rates and made extra tough for agricultural service.
- Dependable hardened chrome alloy steel locking balls. Heat treated plugs and sleeves.
- Standard seals temp range -40°F to +250°F

THREAD LOCK HYDRAULIC JACK COUPLING

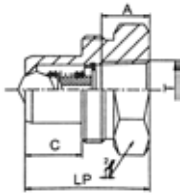
APPLICATIONS

- Thread lock couplings with their threaded union locking system and precision ball-type check valves are designed for extreme high pressure applications such as portable hydraulic jacks.
- **Ball Type.**









SPECIFICATIONS

Body Size	1/4(14)	3/8(38)
Rated Pressure	10.000	
Rated Flow (GPM)	3	6
Temperature Range	-20°C +120°C	
Standard seal material is **NBR**		

MALE COUPLER

PART #	LS	D	HEX	A	NPT	
KZEB14SM	2.40	1.14	0.87	0.55	1/4	----
KZEB38SM	2.91		0.98	0.57	3/8	----

FEMALE COUPLER

PART #	LS	D	HEX	A	NPT	
KZEB14PF	1.30	0.44	0.75	0.51	1/4	----
KZEB38PF	1.38	0.63	1.26	0.55	3/8	----

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

MM-FC SERIES FLOW CONTROL VALVES

FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

TECHNICAL DATA:
- Materials

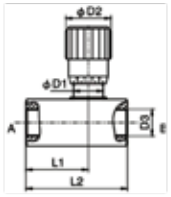
Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	

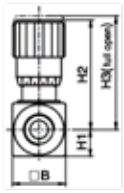


INLET

<< FREE FLOW







Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	
MMFC4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.54	2.52	0.90	----
MMFC6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.69	2.75	0.90	----
MMFC8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	2.05	3.27	2.00	----
MMFC12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	2.19	3.50	2.00	----
MMFC16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	2.79	4.60	4.20	----
MMFC20NPT	2.38	1.96	2.28	1-1/4 NPT	1.18	5.25	5.88	3.39	6.07	9.55	----

MM-NV SERIES NEEDLE VALVES

FEATURES:
- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

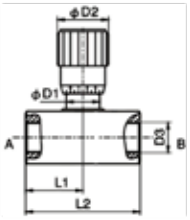
▪ FULL SHUT-OFF

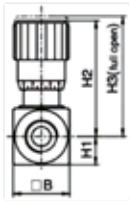
TECHNICAL DATA:
- Materials

Body:	Carbon steel w/ black oxide plating
Handle:	Zinc Alloy
Set Screw:	Steel
Packing:	Buna O-Ring/ PTFE stem packing
Maximum Pressure:	5000PSI
Temperature Ratings:	-4°F to 176°F (-20°C to 80°C)
Flow Rate: 0-42 GPM	









Part#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (lbs)	
MMNV4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.07	2.13	0.90	----
MMNV6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.07	2.13	0.90	----
MMNV8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	1.34	2.38	2.00	----
MMNV12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	1.54	3.09	2.00	----
MMNV16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	1.81	3.62	4.20	----

WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

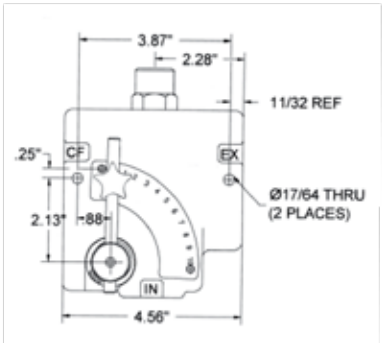
PRESSURE COMPENSATING VARIABLE FLOW CONTROL

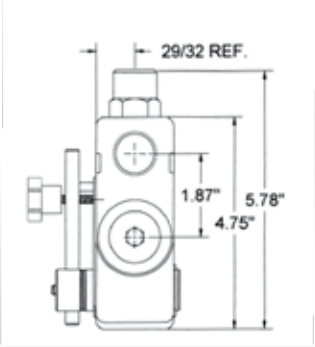
FEATURES:

MFC-51 model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flw is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 PSI and field adjustable from 750 to 3000 PSI.

- Materials: Cast Iron Body, Heat Treated Compensator Spool, Stainless Steel Rotary Spool, Buna N "O" Rings (Standard)
- **ALL ARE STANDARD FLOW CONTROL**
- **ALL HAVE ADJUSTABLE BALL SPRING RELIEF**
- **SAE PORT AVAILABLE. MINIMUM ORDER REQUIRED**







Part#	Size	Flow	
MFC38N	3/8" - NPT	0-8 gpm	----
MFC12N	1/2" - NPT	0-16 gpm	----
MFC34N	3/4" - NPT	0-30 gpm	----

SCREW-ON TYPE AIR BREATHERS



• Chrome Plated Steel • 1/4 To 1 Inch NPT • 40 Micron Breather

PART NUMBER	FLOW CFM	NPT	
MB4004	10	1/4	----
MB4006	10	3/8	----
MB4008	10	1/2	----
MB4012	25	3/4	----
MB4016	25	1	----

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

STEEL FLANGE ADAPTERS

CONFORMANCE

- SAE J518

MATERIALS

- Steel per SAE J518 with either black phosphate finish or plated zinc finish or iridite dip. Stainless Steel available upon request.

WORKING PRESSURES

The following table lists the recommended working pressures for steel Four-bolt Solid and Split Flange Fititngs and Hose Ends manufactured in accordance with SAE standards J518 and J517. SAE recommends sufficient testing to be conducted to assure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. When using Flanged Fittings that have a threaded connection on one end, use the lower pressure rating of the two.

Caution: Although many Four-bolt Flanged Fittings have sufficient structural integrity to support the weight of many components, we recommend consulting with our technical support department for guidance in selection of parts for this purpose.

SAE J518 FOUR-BOLT CODE 61
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-3/16 - 1.188	5000
-12	1-1/2 - 1.500	5000
-16	1-3/4 - 1.750	5000
-20	2 - 2.000	4000
-24	2-3/8 - 2.375	3000
-32	2-13/16 - 2.812	3000
-40	3-5/16 - 3.312	2500
-48	4 - 4.000	2000
-56	4-1/2 - 4.500	500
-64	5 - 5.000	500
-80	6 - 6.000	500

SAE J518 FOUR-BOLT CODE 62
FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-1/4 - 1.250	6000
-12	1-5/8 - 1.625	6000
-16	1-7/8 - 1.875	6000
-20	2-1/8 - 2.125	6000
-24	2-1/2 - 2.500	6000
-32	3-1/8 - 3.125	6000

STEEL FLANGE ADAPTERS
ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

Step 1. Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
Step2. Lubricate the o-ring and place in flange head groove.
Step 3. Lubricate screw threads, slip lock washers onto screws, and insert screws into flange
Step 4. Position flange on port and finger tighten all screws.
Step 5. Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

J518 CODE 61 AND CODE 62
FLANGE MINIMUM TORQUE VALUES

Dash Size	Port Size	Code 61 Foot/Lbs.	Code 62 Foot/Lbs.
-8	1/2”	15-19	15-19
-12	3/4”	20-29	25-33
-16	1”	27-35	41-50
-20	1-1/4”	35-46	62-75
-24	1-1/2”	46-58	116-133
-32	2”	53-67	200-217
-40	2-1/2”	79	NA
-48	3”	137	NA
-56	3-1/2”	116	NA
-64	4”	116	NA
-80	5”	116	NA

RECOMMENDED SPLIT FOUR-BOLT

Step1. Follow steps 1 through 3 above, then proceed to the following steps.
Step 2. Position both flanges on port and turn one screw in each flange about three turns.
Step 3. Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
Step 4. Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
Step 5. Torque the screws in a figure eight sequence incrementally until the appropriate torque value in the preceeding table is achieved.

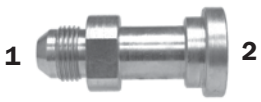
WHY WET TORQUE?

Due to the difference in plating types and thickness, materials, and thread quality of different components, the coefficient of friction varies greatly on any given assembly. Lubrication not only produces a more consistent coefficient of friction, it increases clamping force on sealing area with less torque on the threads. Overtightening causes threads to yield, deform and lose their ability to maintain an adequate load or clamping force on the seating area. Extended operation and severe conditions cause further yielding which results in leaks. Overtightening is the single greatest cause for leaks in metal to metal seat hydraulic connections. It is our firm position, that to not wet torque, is to compromise consistency and quality for convenience.

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE ADAPTER CODE 61

6840
503



3000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
170088	3/4-16	1/2	----
1700812	3/4-16	3/4	----
17001212	1-1/16-12	3/4	----
17001216	1-1/16-12	1	----
17001616	1-5/16-12	1	----
17001620	1-5/16-12	1-1/4	----
17001624	1-5/16-12	1-1/2	----
17002016	1-5/8-12	1	----
17002020	1-5/8-12	1-1/4	----
17002032	1-5/8-12	2	----
17002424	1-7/8-12	1-1/2	----
17003232	2-1/2-12	2	----
17002024	1-5/8-12	1-1/2	----
17002420	1-7/8-12	1-1/4	----
17001612	1-5/16-12	3/4	----
17002432	1-7/8-12	2	----

6840 503

JIC FLANGE 450 ADAPTER CODE 61

6845
505



3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170388	3/4-16	1/2	----
1703812	3/4-16	3/4	----
17031212	1-1/16-12	3/4	----
17031216	1-1/16-12	1	----
17031616	1-5/16-12	1	----
17031620	1-5/16-12	1-1/4	----
17032016	1-5/8-12	1	----
17032020	1-5/8-12	1-1/4	----
17032024	1-5/8-12	1-1/2	----
17033232	2-1/2-12	2	----
17032420	1-7/8-12	1-1/4	----
17032424	1-7/8-12	1-1/2	----
17032432	1-7/8-12	2	----
17031612	1-5/16-12	3/4	----

6845 505

JIC FLANGE 90° ADAPTER CODE 61

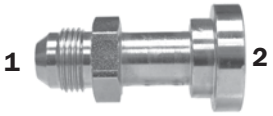


3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170488	3/4-16	1/2	----
1704812	3/4-16	3/4	----
17041016	7/8-14	1	----
17041212	1-1/16-12	3/4	----
17041216	1-1/16-12	1	----
17041220	1-1/16-12	1-1/4	----
17041612	1-5/16-12	3/4	----
17041616	1-5/16-12	1	----
17041620	1-5/16-12	1-1/4	----
17041624	1-5/16-12	1-1/2	----
17042016	1-5/8-12	1	----
17042020	1-5/8-12	1-1/4	----
17042024	1-5/8-12	1-1/2	----
17042420	1-7/8-12	1-1/4	----
17042432	1-7/8-12	2	----
17043232	2-1/2-12	2	----
17042032	1-5/8-12	2	----
17042424	1-7/8-12	1-1/2	----

6890 504

JIC FLANGE ADAPTER CODE 62



6000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
180088	3/4-16	1/2	----
18001212	1-1/16-12	3/4	----
18001216	1-1/16-12	1	----
18001616	1-5/16-12	1	----
18001620	1-5/16-12	1-1/4	----
18002016	1-5/8-12	1	----
18002020	1-5/8-12	1-1/4	----
18002024	1-5/8-12	1-1/2	----
18002424	1-7/8-12	1-1/2	----
18003232	2-1/2-12	2	----
18001612	1-5/16-12	3/4	----
18001624	1-5/16-12	1-1/2	----
18002420	1-7/8-12	1-1/4	----

6842

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

JIC FLANGE 45° ADAPTER
CODE 62



6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
18031212	1-1/16-12	3/4	----
18031216	1-1/16-12	1	----
18031616	1-5/16-12	1	----
18031620	1-5/16-12	1-1/4	----
18032016	1-5/8-12	1	----
18032020	1-5/8-12	1-1/4	----
18032024	1-5/8-12	1-1/2	----
18032424	1-7/8-12	1-1/2	----
18033232	2-1/2-12	2	----
18031612	1-5/16-12	3/4	----
18031624	1-5/16-12	1-1/2	----
18032420	1-7/8-12	1-1/4	----

6847 508

JIC FLANGE 90° ADAPTER - CODE 62



6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
18041212	1-1/16-12	3/4	----
18041216	1-1/16-12	1	----
18041616	1-5/16-12	1	----
18041620	1-5/16-12	1-1/4	----
18042016	1-5/8-12	1	----
18042020	1-5/8-12	1-1/4	----
18042024	1-5/8-12	1-1/2	----
18042424	1-7/8-12	1-1/2	----
18043232	2-1/2-12	2	----
18041612	1-5/16-12	3/4	----
18041624	1-5/16-12	1-1/2	----
18042420	1-7/8-12	1-1/4	----

6842

SPLIT FLANGE PLUG - CODE 61



3000 PSI

PART #	FLANGE SIZE	
196112	3/4	----
196116	1	----
196120	1-1/4	----
196124	1-1/2	----
196132	2	----

6861P

SPLIT FLANGE PLUG
CODE 62

6862P



6000 PSI

PART #	FLANGE SIZE	
196212	3/4	----
196216	1	----
196220	1-1/4	----
196224	1-1/2	----
196232	2	----

6862P

SPLIT FLANGE KIT
CODE 61

SFK



3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIA.	
190112	3/4	1.50	----
190116	1	1.75	----
190120	1-1/4	2.00	----
190124	1-1/2	2.38	----
190132	2	2.81	----

SPLIT FLANGE KIT
CODE 62

SFXK



6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
190212	3/4	1.63	----
190216	1	1.88	----
190220	1-1/4	2.12	----
190224	1-1/2	2.50	----
190232	2	3.12	----

FLANGE ADAPTERS
HYDRAULIC ADAPTERS

SPLIT FLANGE HALF
CODE 61

SF



3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
206112	3/4	1.50	----
206116	1	1.75	----
206120	1-1/4	2.00	----
206124	1-1/2	2.38	----
206132	2	2.81	----

SPLIT FLANGE HALF
CODE 62

SFX



6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	
206212	3/4	1.63	----
206216	1	1.88	----
206220	1-1/4	2.12	----
206224	1-1/2	2.50	----
206232	2	3.12	----

PIPE THREAD FLANGE PAD
CODE 61

W43



3000 PSI

PART #	PIPE SIZE	
226188	1/2	----
22611212	3/4	----
22611616	1	----
22612020	1-1/4	----
22612424	1-1/2	----
22613232	2	----

PIPE THREAD FLANGE PAD
CODE 62

W44



6000 PSI

PART #	PIPE SIZE	
22621212	3/4	----
22621616	1	----
22622020	1-1/4	----
22622424	1-1/2	----
22623232	2	----

O-RING FLANGE PAD
CODE 61

W46



3000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	
23611212	1-1/16-12	3/4	----
23611616	1-5/16-12	1	----
23612020	1-5/8-12	1-1/4	----
23612424	1-7/8-12	1-1/2	----

O-RING FLANGE PAD
CODE 62

W48



6000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE	
23621212	1-1/16-12	3/4	----
23621616	1-5/16-12	1	----
23622020	1-5/8-12	1-1/4	----
23622424	1-7/8-12	1-1/2	----

STAINLESS STEEL ADAPTERS

PIPE SWIVELS



JIC FITTINGS



BULKHEAD FITTINGS



PIPE FITTINGS



SAE O-RING BOSS



JIC FEMALE SWIVELS



HOSE CRIMP FITTINGS



ALL MALE THREADS SHIPPED WITH PROTCTIVE COVER



PRESSURE RATINGS

The hydraulic tube fittings represented by Stainless Adapters Inc. conform to the performance requirements specified in SAE J514, SAE J518, SAE J1453, SAE J1926/ISO 11926 and related standards.
The working pressure ratings listed below are based on a 4:1 design factor for minimum burst. As specified in SAE J514, these are dynamic pressure ratings and the fittings are capable of passing a cyclic endurance (impulse) test for one million cycles at 133 % of the corresponding working pressure.
The rated working pressure for any fitting is based on the lowest pressure rated fitting end. For example, a fitting may include one -4 (1/4") male 37-degree tube end and one -6 (3/8") male pipe end. From the tables below, the rated working pressure for the -4 male 37-degree tube end is 34.5 MPa (5,000 psi) and the rated working pressure of the -6 (3/8") male pipe end is 21 MPa (3,000 psi). The rated working pressure of the fining would be 21 MPa (3,000 psi).
For proper performance, the design of any hydraulic system should take into consideration the rated working pressures for each of the components of the system, including standard ratings for hose and tubing components and assemblies. For any application, testing should be performed to assure safe and satisfactory performance.

Pressure Ratings for Fittings With NPTF Pipe Threads and Adapter Unions

Nominal Pipe Size		Thread Size		Working Pressures			
Nom SAE Dash Size	Nom Inch Pipe O.D.	Dryseal Pipe Thread (NPTF[1]) Male and Female	Straight Pipe Thread (NPSM[2]) Female Swivels	Fittings With NPTF Pipe Threads		Adapter Unions	
				MPa	psi	MPa	psi
-2	1/8	1/8-27	1/8-27	34.5	5,000	34.5	5,000
-4	1/4	1/4-18	1/4-18	27.5	4,000	34.5	5,000
-6	3/8	3/8-18	3/8-18	21	3,000	27.6	4,000
-8	1/2	1/2-14	1/2-14	21	3,000	24.1	3,500
-12	3/4	3/4-14	3/4-14	17	2,500	15.5	2,250
-16	1	1-11-1/2	1-11-1/2	14	2,000	13.8	2,000
-20	1 1/4	1-1/4-11-1/2	1-1/4-11-1/2	8	1,150	11.2	1,625
-24	1 1/2	1-1/2-11-1/2	1-1/2-11-1/2	7	1,000	8.6	1,250
-32	2	2-11-1/2	2-11-1/2	7	1,000	7.8	1,125

1) Dryseal American Standard Taper Pipe Thread
2) American Standard Straight Pipe Thread for Mechanical Joints

■ Temperature Rating

Material	Identify	Max. Temperature ℉(℃)
316 Stainless Steel	SS	1000(537)
Brass	B	400(204)
Carbon Steel	C	375(190)

Pressure Ratings

37° Flare SAE J514

Allowable Working Pressure Ratings (Capable of 4 to 1 Min. Burst)

Nom.SAE Dash Size	Nom.Tube O.D Inches	37°Flare Straight Thread	Nom.Pipe Size	SAE St. Threads Union and Bulkhead (psi)	Fittings with Pipe Threads (psi)
2	1/8	5/16" - 24	1/8"	5000	5000
3	3/16	3/8" - 24	1/8"	5000	5000
4	1/4	7/16" - 20	1/8"	5000	5000
5	5/16	1/2" - 20	1/8"	5000	5000
6	3/8	9/16" - 18	1/4"	5000	5000
8	1/2	3/4" - 16	3/8"	4500	4000
10	5/8	7/8" - 14	1/2"	3500	3000
12	3/4	1 1/16" - 12	3/4"	3500	3000
14	7/8	1 3/16" - 12	3/4"	3000	2500
16	1	1 5/16" - 12	1"	3000	2000
20	1 1/4	1 5/8" - 12	1 1/4"	2500	1150
24	1 1/2	1 7/8" - 12	1 1/2"	2000	1000
32	2	2 1/2" - 12	2"	1500	1000

JIC threads conform to SAE J514 specifications

NPT

Size Designator	NPT Size	316 Stainless Steel			
		Male		Female	
		psig	bar	psig	bar
1	1/16	11000	757	6700	461
2	1/8	10000	689	6500	447
4	1/4	8000	551	6600	454
6	3/8	7800	537	5300	365
8	1/2	7700	530	4900	337
12	3/4	7300	502	4600	316
16	1	5300	365	4400	303
20	1 1/4	6000	413	5000	344
24	1 1/2	5000	344	4600	316
32	2	3900	268	3900	268

NPT threads meet the requirements of ASME/ANSIB.1.20.1

FEMALE PIPE SWIVELS

#316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPSM SWIVEL



PART #	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS1404-04-04	1/4	1/4	1/4-18	1/4-18	1.440	----
SS1404-06-06	3/8	3/8	3/8-18	3/8-18	1.560	----
SS1404-08-08	1/2	1/2	1/2-14	1/2-14	1.940	----
SS1404-12-12	3/4	3/4	3/4-14	3/4-14	2.060	----
SS1404-16-16	1	1	1-11 1/2	1-11 1/2	2.380	----

SAI: 1404-X-X / SSP: PSX-XC / PARKER: 0107-X-X-SS / AEROQUIP: 259-2045-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE NPSM SWIVEL



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS1405-04-04	1/4	1/4	1/4-18	1/4-18	1.440	----
SS1405-06-06	3/8	3/8	3/8-18	3/8-18	1.560	----
SS1405-08-08	1/2	1/2	1/2-14	1/2-14	1.830	----
SS1405-12-12	3/4	3/4	3/4-14	3/4-14	1.960	----
SS1405-16-16	1	1	1-11 1/2	1-11 1/2	2.300	----

SAI: 1405-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

Control Your Temper

There once was a little boy who had a very bad temper. His father decided to hand him a bag of nails and said that every time the boy lost his temper, he had to hammer a nail into the fence.

On the first day, the boy hammered 37 nails into that fence.

The boy gradually began to control his temper over the next few weeks, and the number of nails he was hammering into the fence slowly decreased.

He discovered it was easier to control his temper than to hammer those nails into the fence.

Finally, the day came when the boy didn't lose his temper at all. He told his father the news and the father suggested that the boy should now pull out a nail every day he kept his temper under control.

The days passed and the young boy was finally able to tell his father that all the nails were gone. The father took his son by the hand and led him to the fence.

"you have done well, my son, but look at the holes in the fence. The fence will never be the same. When you say things in anger, they leave a scar just like this one. You can put a knife in a man and draw it out. It won't matter how many times you say I'm sorry, the wound is still there."

Moral of the story:
Control your anger, and don't say things to people in the heat of the moment, that you may later regret. Some things in life, you are unable to take back.

- Unknown

JIC 37°
#316 STAINLESS STEEL ADAPTERS

JIC TUBE SLEEVE



PART	(A) SIZE	(L)	
SS319-04	1/4	.409	----
SS319-06	3/8	.500	----
SS319-08	1/2	.559	----
SS319-10	5/8	.661	----
SS319-12	3/4	.681	----
SS319-16	1	.779	----

SAI: 319-X / SSP: JXS / PARKER: XTX-SS / AEROQUIP: 259-900605-X

JIC TUBE NUT



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L)	
SS318-04	1/4	7/16-20	9/16	.622	----
SS318-06	3/8	9/16-18	11/16	.728	----
SS318-08	1/2	3/4-16	7/8	.850	----
SS318-10	5/8	7/8-14	1	.980	----
SS318-12	3/4	1-1/16-12	1-1/4	1.031	----
SS318-16	1	1-5/16-12	1-1/2	1.129	----

SAI: 318-X / SSP: JXN / PARKER: XBTX-SS / AEROQUIP: 259-1290-X

JIC CAP



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L) LENGTH	
SS304-C-04	1/4	7/16-20	9/16	.594	----
SS304-C-06	3/8	9/16-18	11/16	.625	----
SS304-C-08	1/2	3/4-16	7/8	.748	----
SS304-C-10	5/8	7/8-14	1	.842	----
SS304-C-12	3/4	1-1/16-12	1-1/4	.905	----
SS304-C-16	1	1-5/16-12	1-1/2	1.015	----

SAI: 304-C-X / SSP: AJXZ / PARKER: X FNTX-SS / AEROQUIP: 259-210292-X

STRAIGHTS JIC FLARE 37°

#316 STAINLESS STEEL ADAPTERS

JIC UNION



PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	
SS2403-04-04	1/4	1/4	7/16-20	7/16-20	1.370	----
SS2403-06-04	3/8	1/4	9/16-18	7/16-20	1.401	----
SS2403-06-06	3/8	3/8	9/16-18	9/16-18	1.409	----
SS2403-08-04	1/2	1/4	3/4-16	7/16-20	1.511	----
SS2403-08-06	1/2	3/8	3/4-16	9/16-18	1.519	----
SS2403-08-08	1/2	1/2	3/4-16	3/4-16	1.618	----
SS2403-10-08	5/8	1/2	7/8-14	3/4-16	1.779	----
SS2403-10-10	5/8	5/8	7/8-14	7/8-14	1.881	----
SS2403-12-04	3/4	1/4	1-1/16-12	7/16-20	1.850	----
SS2403-12-06	3/4	3/8	1-1/16-12	9/16-18	1.850	----
SS2403-12-08	3/4	1/2	1-1/16-12	3/4-16	1.948	----
SS2403-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.161	----
SS2403-16-12	1	3/4	1-5/16-12	1-1/16-12	2.318	----
SS2403-16-16	1	1	1-5/16-12	1-5/16-12	2.251	----

SAI: 2403-X-X / SSP: JX-XU / PARKER: HTX-SS / AEROQUIP: 259-2027-X-X

JIC X MALE NPT ADAPTER



PART	(A) MJIC SIZE	(B) MNPT SIZE	(A) MJIC THREAD	(B) MNPT THREAD	(L)	
SS2404-04-02	1/4	1/8	7/16-20	1/8-27	1.220	----
SS2404-04-04	1/4	1/4	7/16-20	1/4-18	1.421	----
SS2404-04-06	1/4	3/8	7/16-20	3/8-18	1.421	----
SS2404-04-08	1/4	1/2	7/16-20	1/2-14	1.681	----
SS2404-06-04	3/8	1/4	9/16-18	1/4-18	1.429	----
SS2404-06-06	3/8	3/8	9/16-18	3/8-18	1.440	----
SS2404-06-08	3/8	1/2	9/16-18	1/2-14	1.688	----
SS2404-08-04	1/2	1/4	3/4-16	1/4-18	1.519	----
SS2404-08-06	1/2	3/8	3/4-16	3/8-18	1.531	----
SS2404-08-08	1/2	1/2	3/4-16	1/2-14	1.712	----
SS2404-08-12	1/2	3/4	3/4-16	3/4-14	1.850	----
SS2404-08-16	1/2	1	3/4-16	1-11 1/2	2.050	----
SS2404-10-08	5/8	1/2	7/8-14	1/2-14	1.889	----
SS2404-12-08	3/4	1/2	1-1/16-12	1/2-14	2.059	----
SS2404-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	----
SS2404-12-16	3/4	1	1-1/16-12	1-11 1/2	2.250	----
SS2404-16-08	1	1/2	1-5/16-12	1/2-14	2.100	----
SS2404-16-12	1	3/4	1-5/16-12	3/4-14	2.110	----
SS2404-16-16	1	1	1-5/16-12	1-11 1/2	2.299	----

STRAIGHTS JIC FLARE 37°

#316 STAINLESS STEEL ADAPTERS

MALE JIC X FEMALE NPT ADAPTER



PART	(A) MJIC SIZE	(B) FNPT SIZE	(A) MJIC THREAD	(B) FNPT THREAD	(L)	
SS2405-04-04	1/4	1/4	7/16-20	1/4-18	1.389	----
SS2405-06-04	3/8	1/4	9/16-18	1/4-18	1.409	----
SS2405-06-06	3/8	3/8	9/16-18	3/8-18	1.470	----
SS2405-08-08	1/2	1/2	3/4-16	1/2-14	1.790	----
SS2405-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	----
SS2405-16-16	1	1	1-5/16-12	1-11 1/2	2.350	----

SAI: 2405-X-X / SSP: JX-XFC / PARKER: XXGTX-SS / AEROQUIP: 259-2022-X-X

FEMALE JIC X MALE JIC (REDUCER-EXPANDER)



PART	(A) FJIC SIZE	(B) MJIC SIZE	(A) FJIC THREAD	(B) MJIC THREAD	(L)	
SS2406-06-04	3/8	1/4	9/16-18	7/16-20	1.118	----
SS2406-08-04	1/2	1/4	3/4-16	7/16-20	1.448	----
SS2406-08-06	1/2	3/8	3/4-16	9/16-18	1.311	----
SS2406-10-08	5/8	1/2	7/8-14	3/4-16	1.409	----
SS2406-12-04	3/4	1/4	1-1/16-12	7/16-20	1.500	----
SS2406-12-06	3/4	3/8	1-1/16-12	9/16-18	1.480	----
SS2406-12-08	3/4	1/2	1-1/16-12	3/4-16	1.559	----
SS2406-16-04	1	1/4	1-5/16-12	7/16-20	1.570	----
SS2406-16-06	1	3/8	1-5/16-12	9/16-18	1.578	----
SS2406-16-08	1	1/2	1-5/16-12	3/4-16	1.669	----
SS2406-16-12	1	3/4	1-5/16-12	1-1/16-12	1.877	----

SAI: 2406-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC PLUG



PART	(A) MJIC SIZE	(A) MJIC THREAD	HEX	(L)	
SS2408-04	1/4	7/16-20	1/2	.799	----
SS2408-06	3/8	9/16-18	5/8	.838	----
SS2408-08	1/2	3/4-16	13/16	.940	----
SS2408-10	5/8	7/8-14	15/16	1.098	----
SS2408-12	3/4	1-1/16-12	1-1/8	1.279	----
SS2408-16	1	1-5/16-12	1-3/8	1.330	----

SAI: 2408-X / SSP: JXP / PARKER: XRNTX-SS / AEROQUIP: 259-900599-X

BULKHEAD FITTINGS
#316 STAINLESS STEEL ADAPTERS

JIC BULKHEAD NUT



PART	(A) BN SIZE	(A) THREAD	HEX	(L)	
SS306-04	1/4	7/16-20	11/16	.279	----
SS306-06	3/8	9/16-18	13/16	.271	----
SS306-08	1/2	3/4-16	1	.311	----
SS306-10	5/8	7/8-14	1-1/8	.358	----
SS306-12	3/4	1-1/16-12	1-3/8	.409	----
SS306-16	1	1-5/16-12	1-5/8	.409	----

SAI: 306-X / SSP: XBN / PARKER: XWLN-SS / AEROQUIP: 259-210212-X-X

MALE JIC BULKHEAD TUBE UNION



PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	
SS2700-04-04	1/4	1/4	7/16-20	7/16-20	2.070	----
SS2700-06-06	3/8	3/8	9/16-18	9/16-18	2.181	----
SS2700-08-08	1/2	1/2	3/4-16	3/4-16	2.440	----
SS2700-12-12	3/4	3/4	1-1/16-12	1-1/16-12	3.090	----
SS2700-16-16	1	1	1-5/16-12	1-5/16-12	3.141	----

SAI: 2700-X-X / SSP: JXBU / PARKER: XWTX-SS / AEROQUIP: 259-2041-X-X

FEMALE NPT X MALE 37 DEGREE JIC BULKHEAD ADAPTER



PART	(A) FNPT SIZE	(B) MJIC SIZE	(A) FNPT THREAD	(B) MJIC THREAD	(L)	
SS2705-04-04	1/4	1/4	1/4-18	7/16-20	2.078	----
SS2705-06-06	3/8	3/8	3/8-18	9/16-18	2.220	----
SS2705-08-08	1/2	1/2	1/2-14	3/4-16	2.610	----
SS2705-12-12	3/4	3/4	3/4-14	1-1/16-12	2.992	----
SS2705-16-16	1	1	1-11 1/2	1-5/16-12	3.228	----

SAI: 2705-X-X / SSP: JX-XBFC / PARKER: X-XWGTX-SS / AEROQUIP: 259-2239-X-X

FEMALE NPT X FEMALE NPT BULKHEAD COUPLING



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS2707-04-04	1/4	1/4	1/4-18	1/4-18	1.500	----
SS2707-06-06	3/8	3/8	3/8-18	3/8-18	1.311	----
SS2707-08-08	1/2	1/2	1/2-14	1/2-14	1.500	----

SAI: 2707-X-X / SSP: AXAC

PIPE FITTINGS
#316 STAINLESS STEEL ADAPTERS

HEX PIPE COUPLING



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
SS5000-02-02	1/8	1/8	1/8-27	1/8-27	.748	----
SS5000-04-04	1/4	1/4	1/4-18	1/4-18	1.129	----
SS5000-06-04	3/8	1/4	3/8-18	1/4-18	1.129	----
SS5000-06-06	3/8	3/8	3/8-18	3/8-18	1.129	----
SS5000-08-06	1/2	3/8	1/2-14	3/8-18	1.500	----
SS5000-08-08	1/2	1/2	1/2-14	1/2-14	1.500	----
SS5000-12-12	3/4	3/4	3/4-14	3/4-14	1.531	----
SS5000-16-08	1	1/2	1-11 1/2	1/2-14	1.889	----
SS5000-16-12	1	3/4	1-11 1/2	3/4-14	1.889	----
SS5000-16-16	1	1	1-11 1/2	1-11 1/2	1.889	----

SAI: 5000-X-X / SWANGELOK: SS-XHGG-X / SSP: XHC / PARKER: XGG-SS / AEROQUIP: 259-2096-X-X

HEX PIPE NIPPLE



PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	L	
SS5404-02-02	1/8	1/8	1/8-27	1/8-27	1.059	----
SS5404-04-02	1/4	1/8	1/4-18	1/8-27	1.259	----
SS5404-04-04	1/4	1/4	1/4-18	1/4-18	1.448	----
SS5404-06-04	3/8	1/4	3/8-18	1/4-18	1.448	----
SS5404-06-06	3/8	3/8	3/8-18	3/8-18	1.448	----
SS5404-08-04	1/2	1/4	1/2-14	1/4-18	1.700	----
SS5404-08-06	1/2	3/8	1/2-14	3/8-18	1.700	----
SS5404-08-08	1/2	1/2	1/2-14	1/2-14	1.889	----
SS5404-12-04	3/4	1/4	3/4-14	1/4-18	1.771	----
SS5404-12-06	3/4	3/8	3/4-14	3/8-18	1.771	----
SS5404-12-08	3/4	1/2	3/4-14	1/2-14	1.960	----
SS5404-12-12	3/4	3/4	3/4-14	3/4-14	1.960	----
SS5404-16-08	1	1/2	1-11 1/2	1/2-14	2.090	----
SS5404-16-12	1	3/4	1-11 1/2	3/4-14	2.149	----
SS5404-16-16	1	1	1-11 1/2	1-11 1/2	2.338	----

SAI: 5404-X-X / SWANGELOK: SS-X-HN-X / SSP: XHN / PARKER: X-XFF-SS / AEROQUIP: 259-2083-X-X

PIPE NIPPLE



PART	(A) MNPT SIZE	(A) MNPT THREAD	(L)	
SSCN-04	1/4	1/4-18	1.120	----
SSCN-06	3/8	3/8-18	1.125	----
SSCN-08	1/2	1/2-14	1.507	----
SSCN-12	3/4	3/4-14	1.500	----
SSCN-16	1	1-11 1/2	1.880	----

SAI: CN-X / SWANGELOK: SS-X-CN / PARKER: X-X MCN-SS / AEROQUIP: 259-2083-X-X

STEEL PIPE FITTINGS

#316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPT ADAPTER EXPANDER



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS5405-02-02	1/8	1/8	1/8-27	1/8-27	1.039	----
SS5405-02-04	1/8	1/4	1/8-27	1/4-18	1.208	----
SS5405-04-04	1/4	1/4	1/4-18	1/4-18	1.389	----
SS5405-04-06	1/4	3/8	1/4-18	3/8-18	1.440	----
SS5405-04-08	1/4	1/2	1/4-18	1/2-14	1.681	----
SS5405-06-06	3/8	3/8	3/8-18	3/8-18	1.440	----
SS5405-06-08	3/8	1/2	3/8-18	1/2-14	1.681	----
SS5405-06-12	3/8	1/2	3/8-18	3/4-14	1.740	----
SS5405-08-08	1/2	1/2	1/2-14	1/2-14	1.870	----
SS5405-08-12	1/2	3/4	1/2-14	3/4-14	1.929	----
SS5405-08-16	1/2	1	1/2-14	1-11 1/2	2.181	----
SS5405-12-12	3/4	3/4	3/4-14	3/4-14	1.929	----
SS5405-12-16	3/4	1	3/4-14	1-11 1/2	2.181	----
SS5405-16-16	1	1	1-11 1/2	1-11 1/2	2.370	----

SAI: 5405-X-X / SWANGELOK: SS-X-RA-X / SSP: XXXRA / PARKER: X-XFG-SS / AEROQUIP: 259-2040-X-X

MALE NPT X FEMALE NPT BUSHING/ REDUCER



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	
SS5406-04-02	1/4	1/8	1/4-18	1/8-27	.850	----
SS5406-06-04	3/8	1/4	3/8-18	1/4-18	.850	----
SS5406-08-04	1/2	1/4	1/2-14	1/4-18	1.098	----
SS5406-08-06	1/2	3/8	1/2-14	3/8-18	1.098	----
SS5406-12-04	3/4	1/4	3/4-14	1/4-18	1.169	----
SS5406-12-06	3/4	3/8	3/4-14	3/8-18	1.169	----
SS5406-12-08	3/4	1/2	3/4-14	1/2-14	1.169	----
SS5406-16-04	1	1/4	1-11 1/2	1/4-18	.940	----
SS5406-16-06	1	3/8	1-11 1/2	3/8-18	.940	----
SS5406-16-08	1	1/2	1-11 1/2	1/2-14	.940	----
SS5406-16-12	1	3/4	1-11 1/2	3/4-14	.940	----
SS5406-20-12	1-1/4	3/4	1-1/4-11 1/2	3/4-14	1.47	----

SAI: 5606-X-X / SWANGELOK: SS-XRB-X / SSP: XXXRA / PARKER: XXXPTR-SS / AEROQUIP: 259-2081-X-X

HEX PIPE PLUG





PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	
SS5406-P-04	1/4	1/4-18	9/16	.751	.850	----
SS5406-P-06	3/8	3/8-18	11/16	.779	.850	----
SS5406-P-08	1/2	1/2-14	7/8	1.118	1.098	----
SS5406-P-12	3/4	3/4-14	1-1/8	1.169	1.098	----
SS5406-P-16	1	1-11 1/2	1-3/8	1.397	1.169	----

SAI: 5606-P-X / SWANGELOK: SS-X-P / SSP: XXXRA / PARKER: X-HHP-SS / AEROQUIP: 259-2082-X

HOLLOW HEX PLUG





PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	
SS5406-HHP-04	1/4	1/4-18	1/4	.460	.850	----
SS5406-HHP-06	3/8	3/8-18	5/16	.460	.850	----
SS5406-HHP-08	1/2	1/2-14	3/8	.610	1.098	----
SS5406-HHP-12	3/4	3/4-14	9/16	.618	1.098	----
SS5406-HHP-16	1	1-11 1/2	5/8	.771	1.169	----

SAI: 5406-HHP-X / SWANGELOK: SS-X-HP / SSP: XCP / PARKER: X-HP-SS / AEROQUIP: 259-2222-X

STEEL PIPE FITTINGS
#316 STAINLESS STEEL ADAPTERS

HEX PIPE CAP



PART	(A) FNPT SIZE	(A) FNPT THREAD	HEX	(L)	
SS5406-C-04	1/4	1/4-18	3/4	.811	----
SS5406-C-06	3/8	3/8-18	7/8	.811	----
SS5406-C-08	1/2	1/2-14	1	1.000	----
SS5406-C-12	3/4	3/4-14	1-5/16	1.129	----
SS5406-C-16	1	1-11 1/2	1-5/8	1.500	----

SAI: 5406-C / SWANGELOK: SS-X-C / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE X MALE 90 DEGREE PIPE ELBOW



PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(L)	
SS5500-02-02	1/8	1/8	1/8-27	1/8-27	.748	----
SS5500-04-04	1/4	1/4	1/4-18	1/4-18	1.129	----
SS5500-06-06	3/8	3/8	3/8-18	3/8-18	1.129	----
SS5500-08-08	1/2	1/2	1/2-14	1/2-14	1.129	----
SS5500-12-12	3/4	3/4	3/4-14	3/4-14	1.500	----
SS5500-16-16	1	1	1-11 1/2	1-11 1/2	1.500	----

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE X FEMALE STREET ELBOW



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	
SS5502-02-02	1/8	1/8	1/8-27	1/8-27	----
SS5502-04-04	1/4	1/4	1/4-18	1/4-18	----
SS5502-06-06	3/8	3/8	3/8-18	3/8-18	----
SS5502-08-08	1/2	1/2	1/2-14	1/2-14	----
SS5502-12-12	3/4	3/4	3/4-14	3/4-14	----
SS5502-16-16	1	1	1-11 1/2	1-11 1/2	----

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

STEEL PIPE FITTINGS
#316 STAINLESS STEEL ADAPTERS

FEMALE X FEMALE 90 DEGREE ELBOW



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	
SS5504-02-02	1/8	1/8	1/8-27	1/8-27	----
SS5504-04-04	1/4	1/4	1/4-18	1/4-18	----
SS5504-06-06	3/8	3/8	3/8-18	3/8-18	----
SS5504-08-08	1/2	1/2	1/2-14	1/2-14	----
SS5504-12-12	3/4	3/4	3/4-14	3/4-14	----
SS5504-16-16	1	1	1-11 1/2	1-11 1/2	----

SAI: 5504-X-X / SWANGELOK: SS-X-E / SSP: XFF / PARKER: XDD-SS / AEROQUIP: 259-2087-X-X

MALE ELBOWS PIPE TEE



PART	(A) MNPT SIZE	(B) MNPT SIZE	(C) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(C) MNPT THREAD	
SS5600-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	----
SS5600-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	----
SS5600-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	----
SS5600-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	----
SS5600-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	----

SAI: 5600-X-X-X / SWANGELOK: SS-X-MT / SSP: XMMM / PARKER: XRRS-SS / AEROQUIP: 259-2257-X-X

TEE – FEMALE X FEMALE X FEMALE



PART	(A) FNPT SIZE	(B) FNPT SIZE	(C) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(C) FNPT THREAD	
SS5605-02-02-02	1/8	1/8	1/8	1/8-27	1/8-27	1/8-27	----
SS5605-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	----
SS5605-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	----
SS5605-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	----
SS5605-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	----
SS5605-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	----

SAI: 5605-X-X-X / SWANGELOK: SS-X-T / SSP: XFF / PARKER: XMMO-SS / AEROQUIP: 259-2090-X-X

SAE O-RING BOSS (ORB)

#316 STAINLESS STEEL ADAPTERS

MALE JIC X MALE SAE O-RING BOSS



PART	(A) MJIC SIZE	(B) MORB SIZE	(A) MJIC THREAD	(B) MORB THREAD	(L)	
SS6400-04-04	1/4	1/4	7/16-20	7/16-20	1.228	----
SS6400-04-06	1/4	3/8	7/16-20	9/16-18	1.291	----
SS6400-06-06	3/8	3/8	9/16-18	9/16-18	1.299	----
SS6400-06-08	3/8	1/2	9/16-18	3/4-16	1.377	----
SS6400-06-10	3/8	5/8	9/16-18	7/8-14	1.500	----
SS6400-08-06	1/2	3/8	3/4-16	9/16-18	1.440	----
SS6400-08-08	1/2	1/2	3/4-16	3/4-16	1.488	----
SS6400-08-10	1/2	5/8	3/4-16	7/8-14	1.598	----
SS6400-08-12	1/2	3/4	3/4-16	1-1/16-12	1.759	----
SS6400-12-08	3/4	1/2	1-1/16-12	3/4-16	1.940	----
SS6400-12-12	3/4	3/4	1-1/16-12	1-1/16-12	1.968	----
SS6400-12-16	3/4	1	1-1/16-12	1-5/16-12	1.988	----
SS6400-16-12	1	3/4	1-5/16-12	1-1/16-12	2.039	----
SS6400-16-16	1	1	1-5/16-12	1-5/16-12	2.039	----

SAI: 6400-X-X-X / SWANGELOK: SS-X-SAE-1-XAN / SSP: JXGC / PARKER: XF50X-SS / AEROQUIP: 259-202702-X-X

MALE SAE O-RING BOSS X FEMALE JIC SWIVEL



PART	(A) MORB SIZE	(B) FJIC SIZE	(A) MORB THREAD	(B) FJIC THREAD	(L)	
SS6402-04-04	1/4	1/4	7/16-20	7/16-20	1.625	----
SS6402-06-06	3/8	3/8	9/16-18	9/16-18	1.842	----
SS6402-08-08	1/2	1/2	3/4-16	3/4-16	2.078	----
SS6402-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.582	----
SS6402-16-16	1	1	1-5/16-12	1-5/16-12	2.807	----

SAI: 6402-X-X-X / SSP: JSX6C / PARKER: XF650X-SS / AEROQUIP: 259-2266-X-X

MALE SAE O-RING BOSS X FEMALE NPT



PART	(A) MORB SIZE	(B) FNPT SIZE	(A) MORB THREAD	(B) FNPT SIZE	(L)	
SS6405-04-04	1/4	1/4	7/16-20	1/4-18	1.161	----
SS6405-06-04	3/8	1/4	9/16-18	1/4-18	1.090	----
SS6405-06-06	3/8	3/8	9/16-18	3/8-18	1.330	----
SS6405-08-08	1/2	1/2	3/4-16	1/2-14	1.468	----
SS6405-12-08	3/4	1/2	1-1/16-12	1/2-14	1.409	----
SS6405-12-12	3/4	3/4	1-1/16-12	3/4-14	1.590	----
SS6405-16-16	1	1	1-5/16-12	1-11 1/2	1.897	----

SAI: 6405-X-X / SWANGELOK: SS-X-SAE-7-X / SSP: XXXGCF / PARKER: XXX-F50G-SS / AEROQUIP: 259-2216-X-X

SAE O-RING BOSS (ORB)
#316 STAINLESS STEEL ADAPTERS

SAE O-RING BOSS HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX	(L)	
SS6408-04	1/4	7/16-20	9/16	.669	----
SS6408-06	3/8	9/16-18	11/16	.728	----
SS6408-08	1/2	3/4-16	7/8	.779	----
SS6408-10	5/8	7/8-14	1"	.929	----
SS6408-12	3/4	1-1/16-12	1-1/4	1.090	----
SS6408-16	1	1-5/16-12	1-1/2	1.118	----

SAI: 6408-HH-X / SWANGELOK: SS-X-HPST / SSP: XCGP / PARKER: XHP50N-SS / AEROQUIP: 259-FF2138-X

MALE SAE O-RING BOSS HOLLOW HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX SIZE	(L)	
SS6408-HH-02	1/8	5/16-24	1/8	.401	----
SS6408-HH-04	1/4	7/16-20	3/16	.468	----
SS6408-HH-06	3/8	9/16-18	1/4	.500	----
SS6408-HH-08	1/2	3/4-16	5/16	.578	----
SS6408-HH-10	5/8	7/8-14	3/8	.649	----
SS6408-HH-12	3/4	1-1/16-12	9/16	.767	----
SS6408-HH-16	1	1-5/16-12	5/8	.767	----

SAI: 6408-X / SWANGELOK: SS-X-PST / SSP: XGP / PARKER: XP50N-SS / AEROQUIP: 259-900598-X

FEMALE JIC SWIVELS
#316 STAINLESS STEEL ADAPTERS

316 STAINLESS STEEL MALE NPT X FEMALE 37 DEGREE JIC SWIVEL



PART	(A) MNPT SIZE	(B) FJIC SIZE	(A) MNPT THREAD	(B) FJIC THREAD	(L)	
SS6505-04-04	1/4	1/4	1/4-18	7/16-20	1.807	----
SS6505-06-06	3/8	3/8	3/8-18	9/16-18	1.952	----
SS6505-08-08	1/2	1/2	1/2-14	3/4-16	2.358	----
SS6505-12-12	3/4	3/4	3/4-14	1-1/16-12	2.668	----
SS6505-16-16	1	1	1-11 1/2	1-5/16-12	3.055	----

SAI: 6505-X-X / SWANGELOK: JSX-XC / PARKER: XXXF6X-SS / AEROQUIP: 259-2018-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE 37 DEGREE JIC SWIVEL



PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	
SS6506-04-04	1/4	1/4	1/4-18	7/16-20	1.862	----
SS6506-06-06	3/8	3/8	3/8-18	9/16-18	2.011	----
SS6506-08-08	1/2	1/2	1/2-14	3/4-16	2.389	----
SS6506-12-12	3/4	3/4	3/4-14	1-1/16-12	2.673	----
SS6506-16-16	1	1	1-11 1/2	1-5/16-12	3.114	----

SAI: 6506-X-X / SWANGELOK: JSX-XFC / PARKER: X-XG6X-SS / AEROQUIP: 259-2242-X-X

Your attitude is like a box of crayons that color your world. Constantly color your picture gray, and your picture will always be bleak. Try adding some bright colors to the picture by including humor, and your picture begins to lighten up.

- Allen Klein

CRIMP HOSE FITTINGS

#316 STAINLESS STEEL ADAPTERS

STRAIGHT MALE NPT PIPE - RIGID



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	(L)	
SS43-04-04MP	-04	1/4	-04	1/4-18	1.862	----
SS43-04-06MP	-04	1/4	-06	3/8-18	2.011	----
SS43-06-04MP	-06	3/8	-04	1/4-18	2.389	----
SS43-06-06MP	-06	3/8	-06	3/8-18	2.673	----
SS43-08-08MP	-08	1/2	-08	1/2-14	3.114	----
SS43-10-08MP	-10	5/8	-08	1/2-14	1.590	----
SS43-12-12MP	-12	3/4	-12	3/4-14	1.897	----
SS43-16-16MP	-16	1	-16	1-11-1/2		----

SAI: 4304-XMP / PARKER: 10143-X-XC

STRAIGHT FEMALE JIC - SWIVEL



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	(L)	
SS43-04-04FJ	-04	1/4	-04	7/16-20	1.862	----
SS43-04-06FJ	-04	1/4	-06	9/16-18	2.011	----
SS43-06-04FJ	-06	3/8	-04	7-16-20	2.389	----
SS43-06-06FJ	-06	3/8	-06	9/16-18	2.673	----
SS43-06-08FJ	-06	3/8	-08	3/4-16	3.114	----
SS43-08-08FJ	-08	1/2	-08	3/4-16	1.590	----
SS43-08-10FJ	-08	1/2	-10	7/8-14	1.897	----

SAI: 4304-XFJ / PARKER: 10643-X-XC

90 DEGREE FEMALE JIC - SWIVEL



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	
SS43-04-04FJ90	-04	1/4	-04	7/16-20	----
SS43-04-06FJ90	-04	1/4	-06	9/16-18	----
SS43-06-06FJ90	-06	3/8	-06	9/16-18	----
SS43-08-08FJ90	-08	1/2	-08	3/4-16	----
SS43-12-12FJ90	-12	3/4	-12	1-1/16-12	----
SS43-16-16FJ90	-16	1	-16	1-5/16-12	----

SAI: 43-X-XFJ90 / PARKER: 10143-X-XC

STRAIGHT MALE NPT - API



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	
BW-16-16API-C	-16	1	-16	1-11 1/2	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FITTING

PART	O.D. (INCHES)	I.D. (INCHES)	LENGTH (INCHES)	
BOPF-C	2.360	2.225	5.195	----

PRODUCT SPECIFICATIONS – BW SERIES MALE API BOP CRIMP FERRULE

NUMERICAL INDEX

Part#	Page
030410	506
030412	506
030416	506
03044	506
03046	506
03048	506
0304C10	506
0304C12	506
0304C14	506
0304C16	506
0304C2	506
0304C20	506
0304C24	506
0304C3	506
0304C32	506
0304C4	506
0304C5	506
0304C6	506
0304C8	506
030610	510
030612	510
030614	510
030616	510
03062	510
030620	510
03064	510
03065	510
03066	510
03068	510
031810	506
031812	506
031814	506
031816	506
03182	506
031820	506
031824	506
03183	506
03184	506
03185	506
03186	506
03188	506
031910	506
031912	506
031914	506
031916	506
03192	506
031920	506
031924	506
03193	506
031932	506
03194	506
03195	506
03196	506
03198	506
10001	50
1000105	223
10001065	223
1000125	223
10001265	223
10002	50
100025	223
1000265	223
10003	50
100035	223
1000365	223
10003L	50
10004	50
100045	223
1000465	223
10005	50
10006	50
100065	223
1000665	223
10007	50
10008	50
100085	223
1000865	223
1001125	223
10011265	223
1001165	223
10011665	223
1001205	223
10012065	223
1001245	223
10012465	223
10013	50
10013	88
10013LF	164
10014	50
100145	223
1001465	223
10014LF	164
10015	50
10015L	50
10015LF	164
10016	50
100165	223
1001665	223
10016LF	164
10017	50
10017L	50
10017LF	164
10018	50
100185	223
1001865	223
10018LF	164
10019	50
10019L	50
10019LF	164
10020	50
10020L	50
10020LF	164
10021	50
10021LF	164
10022	50
10023	50
10024	50
10025	50
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10028	51
10030	51
10031	51
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10039LF	164
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10045	51
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10068	52
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10100	53
10104	53
10104LF	164
10105	53
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10106	53
10106EH	53
10106L	53
10106LF	164
10107	53
10107LF	164
10108	53
10108L	53
10108LF	164
10109	53
10109L	53
10109LF	164
10110	53
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10216	55
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10219	55
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10228	55
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10228LF	165
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10230	55
10230LF	165
10231	55
10231LF	165
10232	55
10232LF	165
10233	55
10233LF	165
10234	55
10234LF	165
10235	55
10235L	55
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10236	55
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10246	55
10247	55
10247LF	165
10248	55
10251LF	165
10252LF	165
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10254	56
10254LF	165
10255	56
10255EH	56
10255L	56
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10256	56
10256EHLF	165
10256L	56
10256LF	165
10256SS	56
10256WC	53
10257	56
10257LF	165
10258	56
10258LF	165
10259	56
10259L	56
10259LF	165
10260	56
10260L	56
10260LF	165
10261	56
10261LF	165
10262	56
10262LF	165
10263	56
10263L	56
10263LF	165
10263SS	56
10264	56
10264L	56
10264LF	165
10264SS	56
10265	56
10265L	56
10265LF	165
10266	56
10266LF	165

Part#	Page
10267	56
10267LF	165
10268	56
10268L	56
10268LF	165
10269	56
10269L	56
10269LF	165
10270	56
10270LF	165
10271	56
10272	56
10272L	56
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10274	56
10274LF	165
10275	56
10275LF	165
10276	56
10276LF	165
10277	56
10278	56
10278LF	165
10279	56
10280	56
10283	57
10283B	57
10284	57
10284B	57
10284LF	165
10285	57
10286	57
10286B	57
10286L	57
10286LF	165
10287	57
10287B	57
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10288	57
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10290	57
10290B	57
10290LF	165
10291	57
10291B	57
10291LF	165
10292	57
10293	57
10293B	57
10293LF	165
10294	57
10294B	57
10294LF	165
10295	57
10295B	57
10295L	57
10295LF	165
10296	57
10296LF	165
10297	57
10297LF	165
10298	57
10298B	57
10298LF	165
10299	57
10299B	57
10299LF	165
10300	57
10300B	57
10300LF	165
10301	57
10301LF	165
10302	57
10302B	57
10302LF	165
10303	57
10303B	57
10303L	57
10303LF	165
10304	57
10304LF	165
10305	57
10305LF	165
10306	57
10306B	57
10306B	58
10306LF	165
10307	57
10308	57
10309	57
10311	57
10312	58
10313	58
10313B	58
10313LF	165
10314	58
10314B	58
10314LF	165
10315	58
10316	58
10317	58
10318	58
10319	58
10319B	58
10319LF	165
10320	58
10320B	58
10320LF	165
10321	58
10321L	58
10321LF	165
10322	58
10322LF	165
10323	58
10324	58
10324B	58
10324LF	165
10325	58
10325L	58
10325LF	165
10326	58
10326LF	165
10327	58
10328	58
10328LF	165
10329	58
10329LF	165
10331LF	165
10333	58
10340	58
10343	58
10344	58
10344B	58
10345	58
10347	58
10348	58
10350	58
10351	58
10352	58
10353	58
10354	58
10355	58
10357	58
10359	58
10360	58
10361	58
10373	59
10374	59
10375	59
10376	59
10382	59
10404	59
10405	59
10406	59
10406B	59
10406LF	165
10407	59
10407LF	165
10408	59
10409	59
10409B	59
10409LF	165
10410	59
10411	59
10412	59
10416	59
10419	59
10419LF	165
10421	59
10434LF	165
10438	60
10439	60
10440	60
10441	60
10442	60
10443	60
10444	60
10448	60
10448B	60
10449	60
10450	60
10451	60
10452	60
10452B	60
10453	60
10454	60
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10460	60
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10462	60
10463	60
10464	60
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10469	60
10470	60
10473	60
10481	61
10481LF	165
10482	61
10482LF	165
10483	61
10483L	61
10483LF	165
10484	61
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10485	61
10485LF	165
10486	61
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10488	61
10488LF	165
10489	61
10493	61
10494	61
10495	61
10496	61
10497	61
1050000	431
1050001	431
1050002	431
1050003	431
1050006	431
1050007	431
1050008	431
1050009	431
1050010	431
1050011	431
1050012	431
1050013	431
1050014	431
1050015	431
1050016	431
1050017	431
1050018	431
1050020	431
1050021	431
1050023	431
1050025	431
1050026	431
1050029	431
1050030	431
1050032	431
1050033	431
10600	61
10602	61
10611	61
10612	61
10613	61
10614	61
10615	61
10616	61
10617	61
10618	61
10619	61
10620	61
10621	61
10622	61
107000	321
107001	321
107002	321
107003	321
107004	321
107005	321
107006	321
107007	321
107009	321
107011	321
107012	321
107013	321
107014	321
107020	320
107021	320
107022	320
107023	320
107024	320
107025	320
107026	320
107027	320
107029	320
107031	320
107032	320
107033	320
107034	320
107040	321
107041	321
107042	321
107043	321
107044	321
107045	321
107046	321
107047	321
107049	321
107051	321
107052	321
107053	321
107054	321
107060	320
107061	320
107062	320
107063	320
107064	320
107065	320
107066	320
107067	320
107069	320
107071	320
107072	320
107073	320
107074	320
108025	237
108026	237
108027	237
108028	237
108029	237
108033	238
108035	238
108036	238
108037	238
108038	238
108039	238
108040	238
108062	237
108063	237
108064	237
108065	237
108066	237
108067	237
108069	237
108071	237
108072	237
108073	237
108074	237
108075	238
108076	238
108077	238
108088	238
108089	238
108090	238
108091	238
108092	238
108094	238
108095	238
108096	238
108097	238
108098	238
12000	69
12001	69
12002	69
12003	69
12004	69
12005	69
12006	69
12007	69
12008	69
12009	69
12010	69
12011	69
12012	69
12013	69
12014	69
12015	69
12016	69
12017	69
12018	69
12022	70
12023	70
12024	70
12025	70
12026	70
12027	70
12028	70
12029	70
12030	70
12031	70
12032	70
12033	70
12034	70
12035	70
12036	70
12037	70
12038	70
12039	70
12040	70
12041	70

NUMERICAL INDEX

Part#	Page
12042	70
12043	70
12044	70
12045	70
12046	70
12047	70
12048	70
12049	70
12050	70
12051	70
12052	70
12053	70
12054	71
12055	70
12056	71
12057	71
12058	71
12059	71
12060	71
12061	71
12062	71
12063	71
12064	71
12065	71
12066	71
12067	71
12068	71
12069	71
12070	71
12072	71
12073	71
12074	71
12075	71
12076	71
12077	71
12079	71
12080	71
12081	71
12082	71
12083	69
12084	69
12085	71
12086	71
12087	71
12088	71
12089	71
12090	71
12091	72
12092	72
12093	72
12094	72
12095	72
12096	72
12097	72
12098	72
12099	70
12100	72
12101	72
12102	72
12103	72
12104	70
12105	70
12107	70
12108	70
12110	72
12111	72
12112	72
12114	71
12115	71
12118	72
12119	72
12120	72
12121	72
12127	73
12129	73
12130	73
12144	73
12145	73
12146	73
12147	73
12148	73
12149	73
12150	73
12151	73
12200	73
12202	73
12205	75
12206	74
12207	74
12208	74
12209	74
12210	74
12211	74
12212	74
12213	74
12214	74
12215	74
12216	74
12217	74
12218	74
12220	74
12221	74
12222	74
12224	74
12230	74
12250	75
12252	75
12254	75
12256	75
12257	75
12260	69
12261	69
12262	69
12263	69
12264	69
12265	69
12266	69
12267	69
12268	69
12269	69
12270	69
12271	69
12272	69
12273	69
12274	69
12275	69
12310	74
12326	75
12327	75
12328	75
12329	75
12330	75
12335	75
12336	75
12337	75
12339	75
12341	75
12342	75
12343	75
12344	75
12345	75
14001	62
14011	62
14016	62
14017	62
14018	62
14025	62
14041212	504
14041216	504
1404126	504
1404128	504
14041612	504
14041616	504
14041620	504
14042016	504
14042020	504
14042024	504
140422	504
14042424	504
14043232	504
140442	504
140444	504
140464	504
140466	504
140468	504
1404812	504
140484	504
140486	504
140488	504
14051212	504
14051216	504
1405128	504
14051612	504
14051616	504
14052020	504
140522	504
14052424	504
14053232	504
140542	504
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140566	504
140568	504
1405812	504
140584	504
140586	504
140588	504
1410083	433
1410118	433
15011212	504
15011216	504
1501126	504
1501128	504
15011612	504
15011616	504
1501168	504
15012016	504
15012020	504
150122	504
150124	504
15013232	504
150142	504
150144	504
150146	504
150148	504
1501612	504
150164	504
150166	504
150184	504
150186	504
150188	504
15021212	504
1502128	504
15021616	504
15022020	504
150222	504
15022424	504
150242	504
150244	504
150246	504
150264	504
150266	504
150268	504
1502812	504
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150286	504
150288	504
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15031216	505
1503128	505
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15031616	505
15031620	505
15032020	505
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150384	505
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150388	505
15041212	505
15041616	505
150422	505
150444	505
150466	505
150488	505
16001	86
16002	86
16003	86
16004	86
16005	86
16006	86
16007	86
16009	86
16010	86
16011	86
16011212	505
16011616	505
16012	86
160122	505
160144	505
160166	505
160188	505
16021212	505
16021616	505
160244	505
160266	505
160288	505
16031212	505
16031616	505
160344	505
160366	505
160388	505
16090	86
16117	86
16118	86
16119	86
16120	86
16121	86
16122	86
16123	86
16125	86
16127	86
16128	86
16129	86
16130	86
16131	86
16133	86
16700001	432
16700004	432
16700007	432
16700010	432
16700012	432
16700013	432
16700016	432
16700017	432
16700022	432
16700024	432
17001212	537
17001216	537
17001612	537
17001616	537
17001620	537
17001624	537
17002016	537
17002020	537
17002024	537
17002032	537
17002420	537
17002424	537
17002432	537
17003232	537
1700812	537
170088	537
17031212	537
17031216	537
17031612	537
17031616	537
17031620	537
17032016	537
17032020	537
17032024	537
17032420	537
17032424	537
17032432	537
17033232	537
1703812	537
170388	537
17041016	537
17041212	537
17041216	537
17041220	537
17041612	537
17041616	537
17041620	537
17041624	537
17042016	537
17042020	537
17042024	537
17042032	537
17042420	537
17042424	537
17042432	537
17043232	537
1704812	537
170488	537
17064N	340
17064P	340
17065N	340
17066N	340
17066P	340
17068N	340
17068P	340
17078N	340
17079N	340
17079P	340
17088N	340
17090N	340
17091N	340
17103N	340
17105N	340
17106N	340
17124N	340
17124P	340
17126N	340
17126P	340
17127P	340
17145P	340
17146N	340
17153N	340
17153P	340
17154P	340
17158P	340
17176N	340
17179N	340
17179P	340
17180N	340
17180P	340
17188N	340
17188P	340
17189N	340
17189P	340
17190N	340
17190P	340
17193N	340
17193P	340
17194N	340
17194P	340
17224N	340
17225N	340
17225P	340

Part#	Page
17233N	340
17233P	340
17234N	340
17234P	340
17237N	340
17237P	340
17238N	340
17238P	340
18001	77
18001212	537
18001216	537
18001612	537
18001616	537
18001620	537
18001624	537
18001LF	166
18002	77
18002016	537
18002020	537
18002024	537
18002420	537
18002424	537
18002LF	166
18003	77
18003232	537
18003LF	166
18004	77
18004LF	166
18005	77
18005LF	166
18006	77
18006LF	166
18007	77
18007LF	166
18008	77
180088	537
18008LF	166
18009	77
18009LF	166
18010	77
18010LF	166
18011	77
18015	88
18015	166
18016	88
18016	166
18017	88
18017	166
18018	88
18018	166
18019	88
18028	84
18029	84
18030	84
18031	84
18031212	538
18031216	538
18031612	538
18031616	538
18031620	538
18031624	538
18032	84
18032016	538
18032020	538
18032024	538
18032420	538
18032424	538
18033	77
18033232	538
18033LF	166
18034	77
18034LF	166
18035	77
18035L	77
18035LF	166
18036	77
18036LF	166
18037	77
18037L	77
18037LF	166
18038	77
18038LF	166
18039	77
18039L	77
18039LF	166
18040	77
18040L	77
18040LF	166
18041	77
18041212	538
18041216	538
18041612	538
18041616	538
18041620	538
18041624	538
18041LF	166
18042	77
18042016	538
18042020	538
18042024	538
18042420	538
18042424	538
18042LF	166
18043	77
18043232	538
18046LF	166
18047	84
18047LF	166
18048	84
18048LF	166
18049	84
18049LF	166
18050	84
18050LF	166
18054LF	170
18055LF	170
18056LF	170
18057LF	170
18062	77
18062LF	167
18063	77
18063LF	167
18064	77
18064L	77
18064LF	167
18065	77
18065LF	167
18066	77
18066DLF	167
18066L	77
18066LF	167
18067	77
18067LF	167
18068	77
18068DLF	167
18068L	77
18068LF	167
18069	77
18069DLF	167
18069L	77
18069LF	167
18070	77
18070LF	167
18071	77
18071DLF	167
18071L	77
18071LF	167
18072	77
18076	78
18076LF	167
18077	78
18077LF	167
18078	78
18078LF	167
18079	78
18079LF	167
18080	78
18080LF	167
18081	78
18081LF	167
18082	78
18082LF	167
18083	78
18083LF	167
18084	78
18085	78
18086	78
18088	85
18090	85
18092	85
18093	85
18094	85
18096	85
18101	78
18101B	78
18101LF	167
18102	78
18102B	78
18102LF	167
18103	78
18103B	78
18103LF	167
18104	78
18104B	78
18104LF	167
18105	78
18105B	78
18105LF	167
18106	78
18106B	78
18106LF	167
18107	78
18107LF	167
18108	78
18109	78
18109LF	167
18110	78
18110LF	167
18111	78
18114	78
18114LF	167
18115	78
18116	78
18117	78
18118	78
18119	78
18122B	79
18122LF	167
18123	79
18123LF	167
18124	79
18124LF	167
18125	79
18125LF	167
18126	79
18126LF	167
18127	79
18127LF	167
18128	79
18128LF	167
18129	79
18129LF	167
18130	79
18130LF	167
18135	79
18135LF	167
18136	79
18136LF	167
18137	79
18137LF	167
18142	79
18142LF	167
18143	79
18143LF	167
18144	79
18144LF	167
18145	79
18145L	79
18145LF	167
18146	79
18146L	79
18146LF	167
18147LF	167
18148	79
18148LF	167
18149	79
18149LF	167
18150	79
18150LF	167
18151LF	167
18152	79
18152LF	167
18153	79
18153L	79
18153LF	167
18154	79
18154DLF	167
18154L	79
18154LF	167
18155	79
18155DLF	167
18155LF	167
18156	79
18156LF	167
18157	79
18157LF	167
18158	79
18158DLF	167
18158L	79
18158LF	167
18159	79
18159DLF	167
18159L	79
18159LF	167
18160	79
18160LF	167
18161LF	167
18162	79
18162DLF	167
18162L	79
18162LF	167
18163	79
18163LF	167
18164	79
18164LF	167
18165	79
18165LF	167
18166	79
18167	79
18167LF	167
18171LF	167
18175	80
18176	80
18176LF	168
18177	80
18177LF	168
18177TLF	168
18178	80
18178LF	168
18179	80
18179L	80
18179LF	168
18180	80
18180L	80
18180LF	168
18181	80
18181LF	168
18182	80
18182LF	168
18183	80
18183LF	168
18184	80
18184L	80
18184LF	168
18185	80
18185LF	168
18186	80
18186LF	168
18187	80
18187L	80
18187LF	168
18188	80
18188L	80
18188LF	168
18189	80
18189L	80
18189LF	168
18190	80
18190L	80
18190LF	168
18191	80
18191LF	168
18192	80
18192LF	168
18193	80
18193L	80
18193LF	168
18194	80
18194L	80
18194LF	168
18195	80
18195L	80
18195LF	168
18196	80
18196LF	168
18197	80
18197LF	168
18198	80
18198LF	168
18199	80
18199LF	168
18200	80
18200LF	168
18201	80
18201LF	168
18202	80
18202LF	168
18203	80
18203LF	168
18204	80
18204LF	168
18205	80
18205LF	168
18206	80
18207	80
18208	85
18208LF	168
18209	85
18209LF	168
18210	85
18210LF	168
18211	85
18211LF	168
18212	85
18212LF	168
18213	85
18213LF	168
18214	85
18214LF	168
18215	85
18216	80
18219	81
18220	81
18220B	81
18220LF	168
18221	81
18221B	81
18221LF	168
18223	81
18223B	81
18223LF	168
18224	81
18224B	81
18224LF	168
18225	81
18225B	81

NUMERICAL INDEX

Part#	Page
18225LF	168
18226	81
18226LF	168
18227	81
18227LF	168
18228	81
18228B	81
18228LF	168
18229	81
18229B	81
18229LF	168
18230	81
18230LF	168
18231	81
18232	81
18232B	81
18232LF	168
18233	81
18233B	81
18233LF	168
18234	81
18234B	81
18234LF	168
18235	81
18235B	81
18235LF	168
18236	81
18236B	81
18236LF	168
18237	81
18237B	81
18237LF	168
18238	81
18238B	81
18238LF	168
18239	81
18239LF	168
18240	81
18240LF	168
18241	81
18241B	81
18241LF	168
18242	81
18242LF	168
18243	81
18243LF	168
18245	81
18245LF	168
18246	81
18247	81
18247LF	168
18248	81
18248B	81
18248LF	168
18250	82
18250LF	168
18251	82
18251B	82
18251LF	168
18252	82
18252B	82
18252LF	168
18253	82
18253B	82
18253LF	168
18254	82
18254B	82
18254LF	168
18255	82
18255LF	168
18256	82
18256LF	168
18257	82
18257LF	168
18258	82
18258LF	168
18259	82
18259LF	168
18260	82
18260LF	168
18261	82
18262	82
18262LF	168
18263	82
18263LF	168
18264	82
18264LF	168
18265	82
18266	82
18267	82
18267LF	168
18268	82
18268LF	168
18269	82
18269LF	168
18270	82
18272	82
18273	82
18273B	82
18273LF	168
18274	82
18274B	82
18274LF	168
18275	82
18275LF	168
18276	82
18276LF	168
18277	82
18277LF	168
18278	82
18279	82
18279LF	168
18280	82
18280LF	168
18281	82
18281LF	168
18282	82
18283	82
18284	82
18289LF	169
18290	83
18290LF	169
18291	83
18291B	83
18291LF	169
18292	83
18292LF	169
18293	83
18293LF	169
18294	83
18294LF	169
18295	83
18295LF	169
18296	83
18296LF	169
18297	83
18297LF	169
18298	83
18299	83
18299B	83
18299LF	169
18300	83
18300LF	169
18301	83
18301LF	169
18302	83
18303	83
18304	83
18307	83
18307LF	169
18314	83
18315LF	169
18316	83
18321	84
18322	84
18322LF	169
18323	84
18323LF	169
18324	84
18325	84
18325LF	169
18326	84
18327	84
18327LF	169
18328	84
18329	84
18330	84
18330LF	168
18331	84
18332	84
18333	84
18333LF	168
18334	84
18334LF	168
18335	84
18335LF	168
18336	84
18336LF	168
18338	84
18338LF	168
18339	84
18339LF	168
18500LF	169
18501LF	169
18502LF	169
18503LF	169
18510LF	169
18534	21
190112	538
190116	538
190120	538
190124	538
190132	538
190212	538
190216	538
190220	538
190224	538
190232	538
196112	538
196116	538
196120	538
196124	538
196132	538
196212	538
196216	538
196220	538
196224	538
196232	538
20001C	112
20009	101
20010	101
20011	101
20012	97
20013	101
20015C	112
20015N	103
20016C	112
20016N	103
20017	97
20017C	112
20017N	103
20018	97
20018C	112
20018N	103
20018P	341
20019	97
20019C	112
20019N	103
20019P	341
20020	97
20020C	112
20020N	103
20020P	341
20021	97
20021C	112
20021N	103
20021P	341
20022	97
20022C	112
20022N	103
20023	98
20023N	104
20024C	112
20024N	103
20025	97
20025C	112
20025N	103
20026	97
20026C	112
20026N	103
20027	97
20027C	112
20028	97
20028C	112
20028N	103
20028P	341
20029	97
20029C	112
20029N	103
20029P	341
20030	97
20030C	112
20030N	103
20030P	341
20031	97
20031C	112
20031N	103
20032	97
20032N	103
20034	97
20034C	112
20034N	103
20035	97
20035C	112
20035N	103
20035P	342
20036	97
20036C	112
20036N	103
20036P	342
20037	97
20037C	112
20037N	103
20038	97
20038N	103
20039	98
20045	98
20046	98
20046N	104
20047	98
20047N	104
20048	98
20048N	104
20049	98
20049C	113
20049N	104
20050	98
20050C	113
20050N	104
20050P	342
20051	98
20052	98
20053	98
20053C	113
20053N	104
20054	98
20054C	113
20054N	104
20054P	342
20055	98
20055C	113
20055N	104
20055P	342
20056	98
20056C	113
20056N	104
20056P	342
20057	98
20057C	113
20057N	104
20057P	342
20058	98
20058C	113
20058N	104
20058P	342
20059	98
20059C	113
20059N	104
20059P	342
20060	98
20060C	113
20060N	104
20061	98
20061C	113
20061N	104
20061P	342
20062	98
20062C	113
20062N	104
20062P	342
20063	98
20063C	113
20063N	104
20063P	342
20064	99
20065	99
20066	99
20067	99
20068	99
20068N	104
20068P	342
20069	99
20069N	104
20069P	342
20070	99
20070P	342
20071	99
20072	99
20072N	104
20072P	342
20073	99
20073N	104
20073P	342
20074	99
20075	99
20076	98
20076N	105
20077	98
20077C	113
20078	98
20078C	113
20079	98
20079C	113
20079N	105
20080	98
20080C	113
20080N	105
20081	98
20081C	113
20081N	105
20082	98
20082C	113
20082N	105
20083	98
20083C	113
20083N	105
20084	98
20084C	113
20084N	105
20085	98
20085C	113
20085N	105
20086	98
20086C	113
20086N	105
20087	98

Part#	Page
20087C	113
20087N	105
20088	98
20088C	113
20088N	105
20089	99
20089C	114
20089N	105
20089S	99
20090	99
20090C	114
20090N	105
20090S	99
20091	99
20091C	114
20091N	105
20091S	99
20092	98
20092C	113
20092N	105
20093	100
20094	99
20094N	105
20094S	99
20095	100
20095N	105
20097	100
20098	100
20099	100
20099C	114
20100	100
20100C	114
20101	100
20102	100
20103	100
20103C	114
20103N	106
20104	100
20104C	114
20104N	106
20105	100
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20105N	106
20106	100
20106C	114
20106N	106
20107	100
20107C	114
20107N	106
20108	100
20108C	114
20108N	106
20109	100
20109C	114
20109N	106
20110	100
20110C	114
20110N	106
20111	100
20111C	114
20111N	106
20112	100
20112N	106
20113	100
20115	100
20116	100
20117	100
20118	100
20119	100
20120	100
20121C	114
20123N	106
20124	101
20124N	106
20125	101
20125N	106
20126	101
20127	101
20127C	115
20127N	106
20127P	341
20128	101
20128C	115
20128N	106
20128P	341
20129	101
20129C	115
20129N	106
20135C	114
20136C	114
20137C	114
20138C	114
20139C	114
20140C	114
20142	101
20143	101
20149C	112
20150	97
20150C	112
20150N	103
20151	97
20151C	112
20151N	103
20152	97
20152C	112
20152N	103
20152P	341
20153	97
20153C	112
20153N	103
20153P	341
20154	97
20154C	112
20154N	103
20154P	341
20155	97
20155C	112
20155N	103
20156N	106
20157N	106
20158C	114
20158N	106
20159N	105
20160	100
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20161	100
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20162N	105
20163	100
20163C	114
20163N	105
20164	100
20164N	105
20165	100
20165C	114
20165N	105
20166	100
20166C	114
20166N	105
20167	100
20167C	114
20167N	105
20168N	105
20170	101
20170C	115
20171	101
20171C	115
20172	101
20172C	115
20173C	115
20174	100
20174C	114
20174N	105
20175C	115
20176C	115
20179C	115
20181C	114
20181N	105
20182C	112
20184C	113
20184N	105
20185C	112
20187C	115
20188C	115
20189C	115
20192	99
20193C	115
20194C	115
20195C	115
20200	91
20201	94
20203	94
20204	94
20205	94
20206	94
20206N	108
20207	94
20208	94
20211	91
20212	91
20213	91
20214	91
20218	94
20219	94
20220	94
20221	94
20222	94
20223	94
20227	94
20228	94
20229	94
20230	94
20231	94
20232	94
20235	91
20237	91
20240	91
20241	91
20242	91
20243	91
20244	91
20245	91
20248	92
20249	92
20250	92
20251	92
20252	92
20253	92
20256	92
20257	92
20259	92
20260	92
20261	92
20262	92
20263	92
20265	92
20268	92
20269	92
20270	92
20271	92
20272	92
20273	92
20274	92
20275	92
20276	92
20277	92
20278	92
20279	92
20282	92
20287	92
20288	92
20289	92
20290	92
20291	92
20292	92
20293	92
20294	92
20295	92
20296	92
20300	93
20301	93
20302	93
20303	93
20304	93
20305	93
20308	93
20309	93
20310	93
20311	93
20312	93
20313	93
20314	93
20317	93
20318	93
20319	93
20320	93
20321	93
20322	93
20323	93
20324	93
20327	93
20328	93
20330	92
20333	91
20334	91
20337	91
20338	91
20339	91
20487C	115
20488C	115
20489C	115
20510	101
20510N	106
20511	101
20511N	106
20512	101
20512N	106
20512P	342
20513N	106
20514N	106
20514P	342
20515C	112
20516C	112
20517C	113
20518C	113
20519C	114
20524P	342
20525P	342
20528P	342
20529P	342
20530	98
20530C	113
20530N	104
20531	98
20531C	113
20531N	104
20532	98
20532N	104
20535	98
20535C	113
20535N	105
20537C	113
20537N	105
20538	98
20538C	113
20538N	105
20539	98
20539C	113
20539N	105
20551	101
20551C	112
20552	101
20553	101
20553C	112
20553N	106
20555C	112
20557C	115
20572C	113
20573C	113
20574C	113
20579C	113
20580C	113
20581C	113
20582C	113
20583C	113
20584C	113
20591C	114
20595C	114
20596C	114
20597C	114
20598C	114
20600	116
20600N	108
20601	116
20601N	108
20602	116
20603	116
20603N	108
20604	116
20604N	108
20610	116
20610N	108
20611	116
206112	539
206116	539
20611N	108
20612	116
206120	539
206124	539
20612N	108
20613	116
206132	539
20613N	108
20614	116
20614N	108
20619N	109
20620N	109
206212	539
206216	539
20621N	109
206220	539
206224	539
20622N	109
206232	539
20623N	109
20624N	109
20625N	109
20626N	109
20627N	109
20628N	109
20629N	109
20630	116
20630N	109
20631	116
20631N	109
20632	116
20632N	109
20633	116
20633N	109
20634	116
20634N	109
20635	116
20635N	109
20636	116
20636N	109
20637	116
20637N	109
20638	116
20638N	109
20642	117
20642N	109
20655	117
20655N	109
20656	117
20656N	109

NUMERICAL INDEX

Part#	Page
20657	117
20657N	109
20658	117
20658N	109
20659	117
20659N	109
20660	116
20660N	108
20661	116
20661N	108
20668N	110
20669N	110
20670	117
20670N	110
20672	117
20672N	110
20673	117
20673N	110
20674	117
20674N	110
20675	117
20676	117
20676N	110
20677	117
20677N	110
20678	117
20678N	110
20679	117
20679N	110
20680	117
20680N	110
20682	117
20682N	110
20683	117
20683N	110
20684	117
20684N	110
20685	117
20686	117
20686N	110
20687	117
20687N	110
20688	117
20688N	110
20689	117
20689N	110
20690	117
20690N	110
20691N	110
20692	117
20698	117
20699	117
20700N	109
20701N	109
20702N	109
20702P	341
20703N	109
20704N	109
20705N	109
20706N	109
20707N	109
20708N	109
20709N	109
20710N	109
20711	117
20711N	109
20712	117
20712N	109
20713	117
20713N	109
20714	117
20714N	109
20715N	109
20716N	110
20717	117
20717N	110
20718	117
20718N	110
20719	117
20719N	110
20720	117
20720N	110
20721	117
20721N	110
20722N	110
20723N	108
20724N	108
20724P	341
20725N	108
20725P	341
20726N	108
20727C	115
20727N	108
20728C	115
20728N	108
20729N	108
20730N	108
20731N	110
20732N	110
20733N	110
20733P	341
20734N	110
20734P	341
20735N	110
20736N	110
20736P	341
20737N	110
20738N	108
20739N	108
20740	116
20740N	108
20740P	343
20741N	108
20742N	108
20742P	343
20743N	108
20744N	108
20745N	108
20745P	343
20746	118
20746N	108
20747P	343
20748N	108
20748P	343
20749N	108
20750N	108
20750P	341
20751N	108
20752N	108
20753N	108
20754P	341
20755P	341
20756P	341
20758P	341
20762N	105
20763P	342
20775P	343
20776P	343
20777P	343
20778P	344
20779P	344
20780	462
20780C	115
20781C	115
20782C	115
20785C	115
20786C	115
20787C	115
20788C	115
20789C	115
20790	117
20801	116
20801N	109
20803	117
20803N	109
20805	117
20805N	109
20806	116
20807	116
20807N	108
20808	116
20808N	108
20809	117
20809N	110
20810	117
20810N	110
20811	117
20811N	110
20813	118
20813N	108
20814	118
20814N	108
20815	118
20815N	108
20816	118
20817	118
20818	118
20819	118
20820	118
20821	118
20822	118
20823	118
20824	118
20825	118
20826	118
20827	118
20827	118
20830C	114
20831C	114
20832C	114
20833C	114
20834C	114
20835C	114
20841N	104
20842N	104
20843N	104
20844N	104
20845N	104
20846N	104
20847N	104
20848N	105
20850N	106
20851N	105
20852N	105
20853N	105
20854	117
20855	117
20856	117
20857	117
20859	117
20860	117
20861	116
20862	116
20876P	343
20878P	343
20880P	343
20881P	343
20900P	343
20901P	343
20904P	343
20905P	343
20910P	344
20925P	343
20927P	343
20936P	342
20937P	342
20938P	342
20939P	342
20940P	342
20941P	342
20944P	342
20950P	343
20951P	343
20953P	343
20954P	343
20955P	343
20956P	343
20958P	342
20960P	342
20961P	342
20964P	342
20965P	342
20966P	342
20967P	342
20968P	342
20969P	342
20970P	343
20971P	343
20972P	343
20973P	342
20974P	342
20975P	344
20976P	344
20977P	344
20980P	344
20981P	344
20983P	344
20985P	344
20986P	344
20988P	344
20989P	344
20990P	344
20993P	342
21003	26
21007	26
21009	26
21021	26
21023	26
21025	26
21027	26
21043	26
21046	26
21049	26
21082	26
21083	26
21084	26
21095	26
21097	26
21099	26
21109	26
21111	26
21113	26
21115	26
21117	26
21119	26
21121	26
21133	26
21151	26
21153	26
21155	26
21159	26
21161	26
21174	313
21175	313
21176	313
21177	313
21178	313
21179	313
21180	313
21193	26
21195	26
21207	26
22008	88
22008A	88
22008LF	166
22009	88
22009A	88
22009LF	166
22010	88
22010A	88
22010B	88
22010LF	166
22011	88
22011A	88
22011LF	166
22012	88
22012LF	166
22013	88
22013LF	166
22014	88
22015	88
22611212	539
22611616	539
22612020	539
22612424	539
22613232	539
226188	539
22621212	539
22621616	539
22622020	539
22622424	539
22623232	539
23611212	539
23611616	539
23612020	539
23612424	539
23621212	539
23621616	539
23622020	539
23622424	539
24002	88
24003	88
24004	88
24005	88
24006	88
24007	88
24008	88
24031010	506
2403108	506
24031210	506
24031212	506
2403126	506
2403128	506
24031414	506
24031612	506
24031616	506
24032016	506
24032020	506
240322	506
240324	506
240332	506
240333	506
240344	506
240355	506
240364	506
240366	506
240384	506
240386	506
240388	506
24041012	507
2404104	507
2404106	507
2404108	507
24041212	507
24041216	507
2404126	507
2404128	507
24041612	507
24041616	507
24041620	507
24041624	507
24042012	507
24042016	507
24042020	507
24042024	507
240422	507
24042416	507
24042420	507
24042424	507
24042432	507
240432	507
24043224	507
24043232	507
240434	507
240442	507
240444	507

Part#	Page
240446	507
240448	507
2404612	507
240462	507
240464	507
240466	507
240468	507
2404812	507
2404816	507
240484	507
240486	507
240488	507
2405106	507
2405108	507
24051212	507
24051216	507
2405128	507
24051612	507
24051616	507
24052020	507
240522	507
240532	507
240542	507
240544	507
240546	507
240564	507
240566	507
2405812	507
240584	507
240586	507
240588	507
2406104	508
2406106	508
2406108	508
24061210	508
24061216	508
2406124	508
2406126	508
2406128	508
24061612	508
24061620	508
2406164	508
2406166	508
2406168	508
24062012	508
24062012	508
24062016	508
2406208	508
24062416	508
24062420	508
24063224	508
240664	508
240665	508
240668	508
2406812	508
240684	508
240686	508
240810	508
240812	508
240814	508
240816	508
24082	508
240820	508
240824	508
24083	508
240832	508
24084	508
24085	508
24086	508
24088	508
25001	87
25001010	508
25001212	508
25001612	508
25001616	508
25002	87
25002020	508
250022	508
25002424	508
25003	87
25003232	508
250044	508
250055	508
250064	508
250066	508
250086	508
250088	508
2501106	509
2501108	509
25011212	509
25011216	509
2501128	509
25011612	509
25011616	509
25011620	509
25012016	509
25012020	509
25012024	509
250122	509
25012420	509
25012424	509
25013232	509
250142	509
250144	509
250146	509
250148	509
2501612	509
250162	509
250164	509
250166	509
250168	509
2501812	509
2501816	509
250184	509
250186	509
250188	509
25021212	509
2502128	509
25021612	509
25021616	509
25022020	509
250242	509
250244	509
250246	509
250262	509
250264	509
250266	509
250268	509
250284	509
250286	509
250288	509
25031012	509
2503106	509
2503108	509
25031212	509
25031216	509
25031616	509
25031620	509
25032016	509
25032020	509
250322	509
25033	87
250342	509
250344	509
250346	509
2503612	509
250362	509
250364	509
250366	509
250368	509
250384	509
250386	509
250388	509
25062	87
25064	87
25175	87
25176	87
25177	87
25179	87
25219	87
25220	87
25221	87
25224	87
26001	89
26001LF	166
26002	89
26002LF	166
26003	89
26003LF	166
26004	89
26004LF	166
26005	89
26005LF	166
26007	89
26007LF	166
26008	89
26008LF	166
26011	89
26011212	510
26014	89
260144	510
26015LF	166
260166	510
26016LF	166
260188	510
26021	89
26023	89
260244	510
260266	510
260288	510
26031010	510
26031212	510
26031616	510
260322	510
260333	510
260344	510
260366	510
260388	510
26062	89
26063	89
26064	89
26065	89
26066	89
26068	89
26079	89
26102	89
26103	89
26105	89
26142	89
26145	89
26146	89
26153	89
26175	89
26176	89
26177	89
26178	89
26179	89
26180	89
26180L	89
26181	89
26182	89
26183	89
26184	89
26188	89
26189	89
26190	89
26193	89
26194	89
26195	89
26198	89
26220	89
26220B	89
26221	89
26221B	89
26223	89
26224	89
26224B	89
26225	89
26225B	89
26226	89
26228	89
26229	89
26232	89
26233	89
26233B	89
26234	89
26235	89
26237	89
26238	89
26291	89
26292	89
26293	89
26296	89
27001	88
270010	510
270012	510
270014	510
270016	510
27002	88
270022	510
27003	88
270044	510
27005	88
270055	510
27006	88
270066	510
27008	510
270110	511
270112	511
270116	511
270120	511
27014	511
27015	511
27016	511
27018	511
270210	511
270212	511
270216	511
27024	511
27026	511
27028	511
270310	511
270312	511
270316	511
27034	511
27036	511
27038	511
270410	511
270412	511
270416	511
27044	511
27046	511
27048	511
27051212	511
27051616	511
27052020	511
270544	511
270566	511
270588	511
27061212	511
27061616	511
270644	511
270666	511
270688	511
28001	2
28001LF	158
28002	2
28002LF	158
28003	2
28003LF	158
28004	2
28004LF	158
28005	2
28005LF	158
28009	2
28009LF	158
28010	2
28010LF	158
28011	2
28011LF	158
28012	2
28012LF	158
28013	2
28013LF	158
28014	2
28015	2
28015B	2
28015LF	158
28016	2
28016B	2
28017	2
28018	2
28018LF	158
28019	2
28019LF	158
28020	2
28021B	2
28022	2
28023	2
28024	2
28024LF	158
28025	2
28025LF	158
28026	2
28026LF	158
28027	2
28027LF	158
28028	2
28028LF	158
28029	3
28030	3
28031	3
28032	2
28032LF	158
28033	2
28033LF	158
28034	2
28034LF	158
28035	2
28035LF	158
28036	2
28036LF	158
28038	3
28039	3
28039LF	158
28041	3
28041LF	159
28042	3
28042LF	159
28043	3
28043LF	159
28044	3
28044LF	159
28045	3
28045LF	159
28046	3
28047	3
28048	3
28049	3
28050	3
28051	3
28052	3
28053B	2
28057	3
28058	3
28058L	3
28058LF	159
28059	3
28059	466
28059	466
28059	468
28059EHLF	159
28059L	3
28059LF	159
28060	3
28060L	3

NUMERICAL INDEX

Part#	Page
28060LF	159
28061	3
28061L	3
28061LF	159
28062	3
28062L	3
28062LF	159
28063	3
28067	4
28067LF	159
28068	4
28068LF	159
28069	4
28069LF	159
28070	4
28070LF	159
28071	4
28071LF	159
28075	4
28075LF	159
28076	4
28076LF	159
28077	4
28077LF	159
28078	4
28078LF	159
28079	4
28079LF	159
28080	4
28084	6
28084LF	159
28084SLF	159
28085	6
28085LF	159
28085SLF	159
28086	6
28086LF	159
28086SLF	159
28087	6
28087LF	159
28087SLF	159
28088	6
28088LF	159
28088SLF	159
28089	6
28090	6
28091	5
28092	6
28093	6
28093LF	159
28094	6
28094LF	159
28095	6
28095LF	159
28096	6
28096LF	159
28097LF	159
28101	5
28102	5
28102L	5
28102LF	159
28103	5
28103LF	159
28104	5
28104L	5
28104LF	159
28105	5
28105L	5
28105LF	159
28106	5
28106L	5
28106LF	159
28107	5
28107L	5
28107LF	159
28108	5
28108LF	159
28109L	5
28109LF	159
28110L	5
28110LF	159
28111	5
28111L	5
28111LF	159
28112	5
28112LF	159
28113	5
28113LF	159
28114	5
28114LF	159
28115	5
28115LF	159
28116	6
28116LF	159
28117	6
28117LF	159
28118	6
28118LF	159
28119	6
28120	6
28121	6
28121LF	159
28122	6
28123	7
28124	7
28125	7
28126	7
28127	7
28128	6
28129	6
28130	6
28131	7
28131LF	160
28132	7
28132LF	160
28133	7
28133LF	160
28134	7
28134LF	160
28135	7
28135LF	160
28136	7
28140	7
28140LF	160
28141	7
28141LF	160
28142	7
28142LF	160
28143	7
28143LF	160
28144	7
28144LF	160
28145	7
28145LF	160
28146	7
28146LF	160
28147	7
28147LF	160
28148	7
28148LF	160
28149	7
28149LF	160
28150	7
28151	7
28152	7
28153	7
28154	7
28155	7
28156	4
28156LF	160
28156S	4
28156SLF	160
28157	4
28157LF	160
28157S	4
28157SLF	160
28158	4
28158LF	160
28158SLF	160
28159	4
28159LF	160
28159SLF	160
28160	4
28160LF	160
28160SLF	160
28161	4
28165	5
28165LF	160
28166	5
28166LF	160
28167	5
28167LF	160
28168	5
28168LF	160
28169	5
28169LF	160
28174	6
28175	6
28176	6
28178	4
28179	4
28180	4
28180LF	160
28181	4
28181L	4
28181LF	160
28182	4
28182LF	160
28183	4
28183L	4
28183LF	160
28184	4
28184L	4
28184LF	160
28185	4
28185L	4
28185LF	160
28187	4
28188	4
28189	4
28189LF	160
28190	9
28190L	9
28190LF	160
28191	9
28191L	9
28191LF	160
28192	9
28192L	9
28192LF	160
28193	9
28193L	9
28193LF	160
28194	9
28194L	9
28194LF	160
28195	9
28195L	9
28195LF	160
28196	9
28196L	9
28196LF	160
28197	9
28198	9
28198LF	160
28199	9
28199LF	160
28200	6
28201	6
28201LF	159
28201S	7
28201SLF	159
28202	6
28202LF	159
28202S	7
28202SLF	159
28203	6
28203LF	159
28203S	7
28203SLF	159
28204	6
28204LF	159
28204S	7
28204SLF	159
28205	6
28205LF	159
28205S	7
28207	9
28208	9
28208L	9
28208LF	160
28209	9
28209LF	160
28210	8
28211	8
28211L	8
28211LF	160
28212	8
28212	466
28212	468
28212EHLF	160
28212L	8
28212LF	160
28213	8
28213L	8
28213LF	160
28214	8
28214L	8
28214LF	160
28215	8
28215L	8
28215LF	160
28216L	8
28216LF	160
28218	8
28220	8
28220L	8
28220LF	160
28221	8
28221L	8
28221LF	160
28222	8
28222L	8
28222LF	160
28223	8
28223L	8
28223LF	160
28224	8
28224L	8
28224LF	160
28225	8
28225L	8
28225LF	160
28227	8
28230	8
28230LF	161
28231	8
28231LF	161
28232	8
28232LF	161
28233	8
28233LF	161
28234	8
28234LF	161
28238	8
28239	8
28240	8
28245	9
28245LF	161
28246	9
28246LF	161
28247	9
28247LF	161
28248	9
28248LF	161
28249	9
28249LF	161
28253	9
28253LF	161
28254	9
28254LF	161
28255	9
28255LF	161
28256	9
28259	5
28260	5
28261	5
28261B	5
28261LF	160
28262	5
28262LF	160
28263	5
28264	5
28264LF	160
28265	5
28265B	5
28265LF	160
28266	10
28266B	10
28266BLF	161
28266LF	161
28267	10
28267B	10
28267BLF	161
28267LF	161
28268	10
28268B	10
28268LF	161
28269	10
28269B	10
28269LF	161
28270B	10
28272LF	161
28273LF	161
28274	10
28275	10
28275LF	161
28276	10
28276B	10
28276LF	161
28281	10
28281F	10
28281LF	161
28282	10
28282F	10
28282LF	161
28283	10
28283LF	161
28284	10
28284LF	161
28285	10
28290	11
28290LF	161
28291	11
28291LF	161
28292	11
28292LF	161
28293	11
28294	11
28295	11
28296	11
28298	11
28299	12
28300	12
28300SS	13
28301	12
28301SS	13
28302	12
28303	12
28303SS	13
28304	12
28304SS	13
28306	13
28307	13
28308	13
28309	13

Part#	Page
28310	13
28311	12
28312	13
28313	12
28315	12
28316	12
28317	12
28318	12
28319	12
28320	13
28321	12
28322	12
28325	13
28328	11
28329	11
28330	11
28331	11
28332	11
28333	11
28335	11
28336	11
28337	11
28338	11
28339	11
28340	11
28345	13
28346	12
28347	12
28348	12
28350	458
28351	458
28352	458
28353	458
28354	458
28363	459
28364	459
28365	459
28366	459
28367	459
28368	459
28369	459
28370	459
28371	459
28372	459
28373	459
28374	459
28375	459
28376	459
28377	459
28378	459
28379	459
28380	459
28381	459
28382	459
28400	107
28401	107
28402	107
28403	107
28404	107
28405	107
28407	107
28415	17
28417	17
28424	9
28425	9
28426	9
28427	9
28430	5
28440	11
28441	11
28442	11
28443	11
28444	460
28445	460
28446	460
28450	460
28452	460
28456	460
28457	460
28458	460
28460	460
28464	460
28465	460
28467	460
28468	460
28469	460
28470	460
28475	7
28481	7
28487	7
28493	7
28497	7
28498	7
28499	7
28500	455
28501	455
28501B	455
28502	455
28503	455
28504	455
28507	455
28507S	455
28508	455
28509	455
28510	455
28510B	455
28511	455
28512	455
28512	468
28513	455
28514S	455
28515	455
28516	455
28516S	455
28517	455
28518	456
28519S	455
28520	456
28521	456
28522	456
28523	456
28524	456
28525S	455
28525S	468
28526S	455
28528	456
28530	456
28531	456
28532	456
28533	452
28534	452
28534	466
28534	466
28534	467
28534	467
28534	468
28534	468
28534	468
28534B	452
28534B	467
28534SS	453
28535	452
28536	456
28540	451
28540	466
28540	466
28540	466
28540	467
28540S	451
28540S	467
28540S	467
28540S	468
28540S	468
28540S	468
28540S	468
28541	451
28541S	451
28545	452
28546	452
28546	466
28546	466
28546	466
28546	467
28546	467
28546	468
28546	468
28546	468
28546	468
28546B	452
28546B	467
28546SS	453
28547	452
28552	451
28552	467
28552S	451
28553	451
28553S	451
28557	452
28558	452
28559	452
28560	453
28560SS	453
28561	452
28562	451
28562S	451
28564	451
28564S	451
28565	451
28565S	452
28566	451
28566S	452
28578	454
28579	453
28579SS	453
28583	454
28584	454
28585	454
28586	454
28587	454
28589	453
28592	454
28593	454
28594	454
28595	454
28597	454
28601	454
28601B	333
28601W	333
28602B	333
28602W	333
28603	454
28603B	333
28603W	333
28604B	333
28604W	333
28605	457
28605B	333
28605W	333
28606W	333
28607W	333
28608	457
28608W	333
28609W	333
28611B	334
28611W	334
28612B	334
28612P	334
28612W	334
28613B	334
28613P	334
28613W	334
28614B	334
28614P	334
28614W	334
28615P	334
28615W	334
28616W	334
28617W	334
28618W	334
28619	457
28619P	334
28620	457
28620W	334
28621W	334
28622W	334
28623B	334
28623W	334
28624B	334
28624W	334
28625B	334
28625W	334
28628B	334
28628W	334
28639	457
28640	457
28640W	335
28641W	335
28642W	335
28643W	335
28651	457
28652	457
28659P	334
28659W	334
28660P	334
28660W	334
28661P	334
28661W	334
28663P	334
28663W	334
28664P	334
28664W	334
28665	457
28665W	334
28666	457
28666P	334
28666W	334
28667	457
28667W	334
28668	457
28668P	334
28668W	334
28669	457
28670	457
28671	457
28671P	334
28671W	334
28672	457
28672P	334
28672W	334
28673	457
28674W	334
28675	457
28675P	334
28675W	334
28676	457
28677	457
28678P	334
28678W	334
28679	457
28679W	334
28680	457
28680P	334
28680W	334
28681	457
28682W	334
28683	456
28683W	334
28684	456
28685	456
28685W	334
28686	456
28687	456
28688	457
28690	453
28691	453
28693P	335
28694P	335
28695P	335
28696P	335
28697P	335
28698P	335
28699P	335
28701	66
28701W	333
28702	66
28702P	333
28703	66
28703W	333
28704	66
28704P	333
28704W	333
28705	66
28705W	333
28706	66
28706W	333
28707	66
28707W	333
28708	66
28709	66
28710	66
28711	66
28712	66
28713	66
28714	66
28715	66
28716	66
28717	66
28718	66
28719	66
28720W	333
28721W	333
28722F	67
28723P	333
28723W	333
28724F	67
28724W	333
28725W	333
28726W	333
28727W	333
28728F	67
28729F	67
28731F	67
28733F	67
28734F	67
28736F	67
28738F	67
28740F	67
28741P	333
28741W	333
28742F	67
28742P	333
28743P	333
28743W	333
28744P	333
28744W	333
28745W	333
28746W	333
28747W	333
28748	66
28749	66
28752	66
28753	66
28754	66
28756	66
28760F	67
28761P	335
28761W	335
28762F	67
28762P	335
28762W	335
28763P	335
28763W	335
28764P	335
28764W	335
28765W	335

NUMERICAL INDEX

Part#	Page
28766F	67
28767W	335
28768F	67
28768W	335
28770F	67
28772F	67
28773F	67
28774F	67
28777F	67
28778F	67
28780F	67
28781F	67
28783F	67
28784F	67
28786F	67
28803W	335
28811P	334
28811W	334
28812P	334
28814P	334
28815W	334
28816P	334
28819P	333
28819W	333
28820P	333
28820W	333
28821P	333
28957	66
28958	66
28959	66
28960	66
28961	66
28962	66
28963	66
28964	66
28966	66
28969	66
28970	66
28971	66
28972	66
28973	67
28974	67
28975	67
28988	442
28989	442
28990	442
28991	442
28996	317
28997	317
28998	317
28999	317
29900	457
29901	457
29902	457
29903	457
29904	457
29905	457
29909	457
29910	457
29911	457
29912	457
29913	457
29914	457
30000	38
300000	458
3000004	417
3000006	417
3000008	417
300001	458
300002	458
3000020	417
300003	458
300004	458
300005	417
300006	458
300007	458
300008	458
30001	38
300010	417
300012	417
300014	458
300015	458
300016	417
300017	458
300018	458
300019	458
30001LF	163
300020	458
300021	458
300022	458
300023	458
300024	458
300026	458
300028	458
300031	458
300032	458
300033	458
300034	458
300035	458
300036	458
300037	458
30006	38
30006LF	163
30011	38
30011LF	163
30012	38
30012LF	163
30013	38
30016	38
30016LF	163
30017	38
30018	38
30019	38
30020	38
30021	40
30021LF	163
30022	40
30022LF	163
30025	43
30025LF	163
30026	41
30027	43
30027LF	163
30027SS	43
30028	43
30028LF	163
30028SS	43
30029	43
30029LF	163
30029SS	43
30030	43
30031	43
30031LF	163
30032	43
30032LF	163
30032SS	43
30033	43
30033LF	163
30033SS	43
30034	43
30034SS	43
30035	43
30039	43
30039LF	163
30040	43
30040LF	163
30040SS	43
30041	43
30041LF	163
30041SS	43
30042	43
30042LF	163
30042SS	43
30043	43
30044	43
30045	43
30046	43
30047	39
30047LF	163
30048	39
30048LF	163
30049	39
30049LF	163
30050	42
30050LF	169
30051	42
30051LF	169
30052	42
30052LF	163
30053	40
30053LF	163
30054	40
30055	39
30055LF	169
30056	39
30058	40
30058LF	163
30058S	40
30058SLF	163
30063	40
30063BE	40
30063LF	163
30063S	40
30064	40
30065	40
30066	40
30066LF	163
30067	40
30067LF	163
30068	40
30068LF	163
30073	40
30073LF	163
30074	40
30075	40
30078	39
30078LF	163
30083	39
30083LF	163
30087	39
30088	39
30088LF	163
30088S	39
30093	39
30093L	39
30094	39
30098	40
30098LF	163
30099	40
30100	40
30101	40
30103	41
30103B	41
30103LF	163
30103P	339
30123	42
30128	42
30133	42
30135	42
30136	42
30137	42
30138	42
30139	42
30140	47
30140LF	163
30141	47
30142	41
30149	42
30150	41
30150B	41
30150R	41
30151	41
30160	47
30161	46
30162	46
30163	46
30180	41
30180F	41
30181	39
30182	39
30183	39
30184	39
30200	31
30200LF	161
30200SS	36
30201	31
30201LF	161
30201SS	36
30202	31
30203	31
30203LF	161
30203SS	36
30204	31
30204LF	161
30204SS	36
30205	31
30206	31
30206LF	161
30206SS	36
30207	31
30207LF	161
30207SS	36
30208	31
30209	31
30210	31
30210SS	36
30211	31
30212	31
30213	31
30214	31
30215	31
30215SS	36
30216	31
30217	31
30218	31
30219	31
30220	32
30221	32
30222	32
30223	32
30224	32
30225	32
30226	32
30227	32
30229	32
30230	33
30230LF	161
30230SS	36
30231	33
30232	33
30233	33
30234	33
30234SS	36
30235	33
30236	33
30237	33
30238	31
30239	31
30240	33
30241	33
30243	33
30245	33
30246	33
30247	33
30249	33
30250	34
30251	34
30252	34
30253	34
30254	34
30255	34
30257	34
30258	34
30259	34
30260	34
30261	34
30264	34
30265	34
30266	34
30266SS	36
30267	34
30268	34
30269	34
30269SS	36
30270	34
30271	33
30275	34
30276	34
30277	34
30279	34
30280	34
30282	34
30283	34
30284	34
30286	34
30290	33
30291	33
30292	33
30293	33
30294	33
30295	22
30297	33
30298	33
30299	33
30300	32
30301	32
30302	32
30303	32
30304	32
30305	32
30306	32
30310	35
30311	35
30312	35
30313	35
30314	35
30315	35
30316	35
30340	35
30341	35
30342	35
30343	35
30344	35
30345	35
30346	35
30349	35
30358	31
30359	31
30360	31
30361	31
30362	31
30363	31
30366	31
30370	32
30371	32
30372	32
30373	32
30374	32
30375	32
30376	32
30377	32
30378	32
30379	32
30381	32
30382	32
30383	32
30384	32
30385	31
30386	31
30387	31
30388	31
30389	31
30390	31
30391	32
30392	31
30393	32

Part#	Page
30394	32
30395	32
30396	32
30397	32
30398	32
30399	32
30400	32
30401	25
30402	32
30403	32
30406	25
30410	25
30411	25
30413	25
30420	25
30421	25
30422	31
30423	31
30424	31
30426	33
30427	33
30428	33
30429	34
30430	35
30450	42
30451	42
30452	42
30453	44
30454	44
30455	44
30457	44
30458	44
30459	44
30464	44
30466	44
30467	44
30468	44
30469	44
30471	44
30472	44
30480	35
30482	35
30483	35
30484	35
30486	35
30505	44
30506	44
30507	44
30508	44
30510	44
30511	44
30512	44
30513	44
30516	44
30517	44
30518	44
30526	46
30527	46
30530	46
30540	45
30541	45
30542	45
30543	45
30545	45
30546	45
30547	45
30548	45
30550	45
30551	45
30552	45
30553	45
30560	45
30561	45
30562	45
30563	45
30565	45
30566	45
30567	45
30568	45
30570	45
30571	45
30572	45
30573	45
30600	48
30609	48
30620	48
30626	47
30627	47
30629	47
30630	48
30631	46
30637	48
30638	48
30640	48
307030	464
307030	466
307030	467
307031	464
308070	433
31022	339
31023	339
31030	339
31031	339
31032	339
31033	339
31034	339
31035	339
31038	339
31039	339
31040	339
31041	339
31042	339
31055	339
31058	339
31063	339
31064	339
31066LF	170
31067	339
31068	339
31068LF	170
31069	339
31079LF	170
31081LF	170
31082LF	170
31083LF	170
31093	339
31095	339
31096	339
31097	339
31105LF	170
31106LF	170
31126LF	170
31127LF	170
31137LF	170
31154LF	170
31155LF	170
31158LF	170
31159LF	170
31171LF	170
31188LF	170
31189LF	170
31190LF	170
31194LF	170
31195LF	170
31198LF	170
31233LF	170
31234LF	170
31235LF	170
31237LF	170
31238LF	170
31260LF	170
320000	465
320005	465
320005	467
320005	467
32001	15
320010	465
320011	465
32001LF	162
32001SS	27
32002	15
320021	464
320021	467
320021	467
320022	464
320023	464
32002LF	162
32002SS	27
32003	15
320035	463
320036	463
32003LF	162
32003SS	27
32004	15
32004LF	162
32004SS	27
32005	15
320050	463
320050	466
320050	466
320050	466
320050	466
320050	467
320050	467
320050	467
320053	463
320054	463
320055	463
32005LF	162
32005SS	27
32006	15
320061	9
320065	452
32006LF	162
32006SS	27
32007	15
320070	463
320070	466
320070	466
320070	467
320070	467
320075	463
320075	466
320075	466
320075	466
320075	466
320075	467
320075	467
320075	467
320076	464
320076	466
320076	466
320076	466
320076	466
320076	467
320076	467
320076	467
320077	464
320077	466
320078	464
320078	466
320078	467
32007LF	162
32008	15
320080	464
320080	466
32008LF	162
32008SS	27
32009	15
320095	464
320095	466
320095	466
320095	466
320095	466
320095	467
320095	467
320095	467
32009LF	162
32009SS	27
32010	15
32010LF	162
32010SS	27
32011	15
32011LF	162
32011SS	27
32012	15
320120	460
320121	460
320122	460
32012LF	162
32012SS	27
32013	15
32013LF	162
32013SS	27
32014	15
32014LF	162
32014SS	27
32015	15
32015LF	162
32015SS	27
32016	15
32016LF	162
32016SS	27
32017	15
32017LF	162
32017SS	27
32018	15
32018LF	162
32018SS	27
32019	15
32019LF	162
32019SS	27
32020	15
32020LF	162
32020SS	27
32021	15
32021LF	162
32021SS	27
32022	15
32022LF	162
32022SS	27
32023	15
32023LF	162
32023SS	27
32024	15
32024LF	162
32024SS	27
32025	15
32025LF	162
32026	15
32026LF	162
32027	15
32027LF	162
32028	15
32029	15
32030	21
32031	21
32032	21
32033	21
32034	21
32036	18
32036B	19
32036LF	162
32038	18
32038B	19
32038LF	162
32038SS	27
32039	18
32039B	19
32039LF	162
32039SS	27
32040	18
32040B	19
32040LF	162
32041	18
320410	464
320410	466
320414	466
32041B	19
32041LF	162
32041SS	27
32042	18
32042B	19
32042LF	162
32042SS	27
32043	18
32043B	19
32043LF	162
32043SS	27
32044	18
32045	18
32046	18
32046B	19
32046LF	162
32047	18
32047B	19
32047LF	162
32048	18
32048B	19
32048LF	162
32049	17
32050	17
32050LF	162
32051	17
32051LF	162
32052	17
32052LF	162
32053	17
32053LF	162
32054	17
32054LF	162
32055	17
32055LF	162
32056	17
32056LF	162
32057	17
32057LF	162
32058	17
32058LF	162
32059	17
32059LF	162
32060	17
32060LF	162
32061	17
32061LF	162
32062	17
32062LF	162
32063	17
32063LF	162
32064	17
32064LF	162
32065	17
32065LF	162
32066	21
32067	21
32068	21
32069	21
32070	21
32071	21
32072	21
32073	21
32074	21
32075	21
32076	21
32077	21
32078	21
32079	16
32080	16
32081	21
32082	21
32083	21
32084	21
32085	21
32086	21
32087	16

NUMERICAL INDEX

Part#	Page
32088	16
32089	16
32090	16
32091	16
32091LF	162
32091SS	27
32092	16
32092LF	162
32093	16
32093LF	162
32093SS	27
32094	16
32094LF	162
32094SS	27
32095	16
32095LF	162
32095SS	27
32096	16
32096	42
32096LF	162
32096SS	27
32097	16
32097	42
32097LF	162
32098	16
32098	42
32098LF	162
32098SS	27
32099	16
32099	42
32100	22
32100LF	162
32101	22
32101LF	162
32102	22
32103	22
32104	22
32105	22
32105C	22
32105LF	162
32106	22
32107	22
32107C	22
32109	20
32110	20
32111	20
32112	20
32113	20
32114	20
32115	20
32116	20
32117	18
32118	18
32119	18
32120	18
32121	18
32122	18
32123	18
32124	18
32125	18
32126	19
32126LF	162
32128	19
32129	18
32130	18
32131	18
32132	18
32133	18
32150	26
32151	26
32153	26
32159	26
32160	26
32170	26
32171	26
32176	24
32177	24
32178	24
32179	24
32180	24
32181	24
32182	24
32183	24
32184	24
32185	24
32186	24
32187	24
32188	24
32189	24
32190	24
32191	24
32192	24
32194	24
32195	24
32200	16
32201	16
32202	16
32300	15
32301	15
32302	15
32303	15
32304	15
32305	15
32306	15
32306LF	162
32307	15
32308	18
32309	18
32309B	19
32309LF	162
32310	18
32310B	19
32311	18
32311B	19
32311LF	162
32311SS	27
32312	18
32313	18
32313LF	162
32314	18
32314B	19
32314SS	27
32315	18
32316	15
32317	17
32317LF	162
32318	17
32318LF	162
32319	18
32320	17
32321	17
32322	21
32326	22
32327	22
32328	22
32329	16
32330	18
32331	16
32332	16
32334	22
32335	22
32336	22
32336C	22
32337	22
32337C	22
32338	22
32338C	22
32338SS	22
32339	22
32340	22
32341	22
32341C	22
32342	22
32345	20
32346	20
32349	16
32350	19
32351	16
32352	19
32353	19
32354	18
32355	16
32356	16
32357	16
32359	21
32360	16
32361	19
32362	21
32363	19
32364	21
32365	19
32365LF	162
32366	19
32366LF	162
32367	19
32368	19
32375	16
32376	16
32377	24
32379	16
32380	16
32381	24
32382	24
32383	24
32384	24
32385	24
32386	16
32387	24
32388	24
32389	21
32391	18
32392	21
32394	22
32397	22
32400	19
32401	20
32402	20
32403	20
32404	20
32405	20
32406	20
32407	20
32409	20
32410	20
32411	20
32412	19
32413	19
32414	19
32415	19
32416	19
32417	19
32418	19
32419	19
32420	19
32425	19
32429	19
32433	19
32434	19
32435	19
32436	19
32437	25
32438	25
32439	25
32440	25
32441	17
32441LF	162
32442	17
32443	17
32444	17
32445	17
32446	17
32447	17
32448	17
32449	17
32450	16
32451	16
32452	16
32453	16
32454	16
32455	16
32456	16
32457	16
32458	16
32460	21
32461	21
32462	21
32463	21
32470	17
32472	17
32473	17
32475	17
32476	17
32500	436
325004	418
325005	418
325006	418
325008	418
32501	436
325010	418
325012	418
325016	418
32502	436
325020	418
32503	436
32504	436
32506	436
32507	436
32508	436
32510	436
32517	436
32521	436
32526	436
32533	436
32535	436
32539	436
32543	436
32545	436
32549	436
32550	436
32551	436
32552	436
32552SS	436
32553	436
32554	436
32555	436
32556	436
32557	436
32557SS	436
32558	436
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32561	436
32561SS	436
32563	436
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32565	436
32566	436
32566SS	436
32567	436
32568	436
32568SS	436
32570	436
32570SS	436
32571	436
32572	436
32573	436
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32575SS	436
32576	436
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32578	436
32579	436
32580	436
32584	436
32586	436
32588	436
32588SS	436
32590	436
32591	436
32592	436
32596	436
32597	436
32608	20
32609	20
32610	20
32725	23
32726	23
32727	23
32728	23
32741	23
32742	23
32744	23
32746	23
32747	23
32749	23
32750	23
32751	23
32752	23
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32754	23
32755	23
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32759	23
32760	23
32761	23
32770	23
32771	23
32772	23
32773	23
32774	23
32775	23
32781	17
32782	462
32783	462
32900	33
32901	33
32902	33
32903	33
32905	33
32906	33
32907	33
32912	15
32915	15
32950	15
32951	15
32952	15
32953	15
32954	15
32954LF	162
32956	15
32957	15
32958	15
32960	16
32961	16
32962	21
33000P	335
33000W	336
33002B	335
33002W	336
33003B	335
33003W	336
33004B	335
33004W	336
33005B	335
33005W	336
33006B	335
33006W	336
33007B	335
33007W	336
33008B	335
33008W	336
33009B	335

Part#	Page
33009W	336
33010W	336
33011W	336
33012B	335
33012P	335
33012W	336
33013B	335
33013P	335
33013W	336
33014B	335
33014P	335
33014W	336
33015B	335
33015P	335
33015W	336
33016B	335
33016P	335
33016W	336
33017B	335
33017P	335
33017W	336
33018B	335
33018P	335
33018W	336
33019B	335
33019W	336
33020B	335
33020P	335
33020W	336
33021B	335
33021W	336
33022B	335
33022P	335
33022W	336
33023B	335
33023P	335
33023W	336
33024B	335
33024P	335
33024W	336
33025P	335
33025W	336
33026B	335
33026W	336
33027W	336
33028W	336
33029W	336
33030W	336
33032W	336
33033W	336
33038B	336
33038W	336
33039B	336
33039W	336
33040W	336
33041B	336
33041W	336
33042B	336
33042W	336
33043B	336
33043W	336
33044B	336
33044W	336
33045B	336
33045W	336
33046B	336
33046W	336
33047B	336
33047W	336
33048P	336
33048W	336
33050W	336
33052W	337
33053B	337
33053W	337
33058W	337
33059W	337
33060W	337
33061W	337
33062P	337
33063W	337
33064W	337
33066W	337
33067W	337
33068W	337
33079W	337
33089W	337
33091B	337
33091W	337
33092B	337
33092W	337
33093B	337
33093W	337
33094W	337
33095B	337
33095P	337
33095W	337
33096B	337
33096P	337
33096W	337
33097B	337
33097W	337
33098P	337
33098W	337
33099P	337
33099W	337
33300P	338
33301P	338
33301W	338
33302P	338
33303P	335
33303W	336
33306W	336
33307W	336
33308B	336
33309B	336
33309W	336
33310W	336
33311B	336
33311P	336
33311W	336
33312B	336
33312W	336
33313B	336
33313P	336
33313W	336
33314B	336
33314P	336
33314W	336
33315W	336
33316P	336
33316W	336
33318W	336
33319W	336
33320W	336
33321W	336
33323P	335
33329W	336
33334P	336
33342W	337
33343P	337
33343W	337
33344P	337
33344W	337
33345W	337
33347W	337
33348W	337
33349W	336
33351W	336
33380W	336
33381W	336
33384W	336
33385B	336
33385P	336
33385W	336
33386W	336
33390B	337
33390W	337
33391B	337
33391W	337
33394B	337
33394W	337
33395B	337
33395W	337
33396B	337
33396W	337
33397W	337
33398W	337
33399W	337
33402W	337
33403W	337
33406B	337
33406W	337
33407B	337
33407W	337
33408B	337
33408W	337
33409W	337
33410B	337
33410W	337
33415B	338
33415W	338
33417W	338
33418B	338
33420B	338
33420W	338
33422B	338
33422W	338
33423B	338
33426B	338
33426W	338
33429B	338
33429P	338
33429W	338
33430B	338
33430W	338
33431W	338
33432B	338
33432W	338
33433B	338
33433W	338
33434B	338
33435B	338
33435W	338
33436B	338
33436W	338
33437B	338
33437W	338
33438B	338
33438W	338
33439W	338
33440P	338
33440W	338
33442W	337
33448W	338
33450W	338
33451W	338
33453W	338
33454W	338
33455W	338
33456W	338
33458W	338
33460W	336
33461P	336
33461W	336
33462W	336
33463P	336
33463W	336
33464W	336
33470W	337
33471W	337
33480W	337
33481W	337
34001	63
34011	63
34016	63
34022	63
34031	63
34041	63
34046	63
34051	63
34060	64
34061	64
34062	64
34063	64
34064	64
34065	64
34072	64
34073	64
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34084	64
34088	64
34111	65
34112	65
34113	65
34114	65
34120	65
34121	65
34122	65
34123	65
34130	63
34131	63
34141	63
34143	65
34160	65
34170	65
34172	65
34174	65
34176	65
34501	28
34502	28
34504	28
34510	28
34525	29
34526	29
34529	29
34531	29
34532	28
34533	28
34533T	28
34534	28
34535	28
34535T	28
34536	28
34537	28
34538	28
34539	28
34540	28
34540T	28
34541T	28
34543	28
34543T	28
34550	29
34551	29
34551T	29
34552	29
34552T	29
34553T	29
34561	29
34562	29
34562T	29
34563	29
34563T	29
34564T	29
34565	29
34565T	29
34567	29
34567T	29
34568	29
34568T	29
34572	28
34572T	28
34574	28
34574T	28
34579	28
34580	28
34581	28
34583	28
34584	28
34585	28
34586	28
34587	28
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34589	28
34590	28
34591	28
34592	28
34595	28
34597	28
34600	29
34601	29
34610	29
34611	29
34612	29
34613	29
34621T	29
34622T	29
34625	28
34626	28
34633	29
34633T	29
34635T	29
34638T	29
34650T	29
34652T	29
34658	29
34661	29
34710	28
34711	28
34712	28
34713	28
34714	28
34715	28
34716	28
34716	28
34717	28
34718	28
34720	28
34721	28
34722	28
34723	28
34724	28
34725	28
34726	28
34727	28
34728	28
350004	419
350004SS	420
350005	419
350005SS	420
350006	419
350006SS	420
350008	419
350008SS	420
350010	419
350010SS	420
350012	419
350012SS	420
350016	419
350016SS	420
350020	419
350020SS	420
35130	62
35131	62
35132	62
35133	62
35134	62
35135	62
35136	62
35142	62
35186	62
35403LF	175
35403SS	175

NUMERICAL INDEX

Part#	Page
35404LF	175
35404SS	175
35405LF	175
35405SS	175
35406LF	175
35406SS	175
35407LF	175
35407SS	175
35408LF	175
35408SS	175
35413LF	175
35413SS	175
35414LF	175
35414SS	175
35415LF	175
35415SS	175
35416LF	175
35416SS	175
35417LF	175
35417SS	175
35418LF	175
35418SS	175
35420LF	175
35420SS	175
36110	141
36110SS	141
36111	141
36112	141
36113	141
36114	141
36116	141
36116SS	141
36118	141
36120	141
36120SS	141
36121	141
36130	141
36130SS	141
36132	142
36140	142
36140SS	142
36141	142
36142	142
36144	142
36146	142
36146SS	142
36148	142
36150	142
36150SS	142
36152	142
36160	143
36164	143
36164SS	143
36166	143
36166SS	143
36168	143
36170	143
36172	143
36174	143
36176	143
36178	143
36180	144
36182	144
36184	144
36186	144
36188	144
36200	144
36205	144
36210	144
36212	144
36214	144
36216	144
36220	144
36300	145
36301	145
36304	145
36305	145
36306	145
36307	145
36308	145
36309	145
36310	145
36311	145
36340	145
36350	145
36360	145
36362	145
36370	145
36371	145
36372	145
36373	145
36374	145
36375	145
36376	145
36377	145
38000	132
38001	132
38002	132
38003	132
38004	132
38005	132
38009	132
38010	132
38011	132
38012	132
38013	132
38014	132
38015	139
38016	139
38018	132
38019	132
38020	132
38021	132
38022	132
38023	132
38028	132
38029	132
38030	132
38035	132
38036	132
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38067	133
38068	133
38072	134
38073	134
38074	134
38075	134
38076	134
38077	134
38078	134
38078S	134
38079	134
38080	134
38081	134
38081S	134
38082	134
38083	134
38084	134
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38087	134
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38095	134
38101	134
38101S	134
38102	134
38103	134
38104	134
38104S	134
38105	134
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38141	135
38142	135
38143	135
38144	135
38146	135
38148	135
38149	135
38150	135
38151	135
38152	135
38152S	135
38153	135
38154	135
38154S	135
38155	135
38156	135
38157	135
38158	135
38161	136
38162	136
38163	136
38164	136
38165	136
38170	136
38171	136
38172	136
38173	136
38174	136
38179	136
38180	136
38181	136
38182	136
38183	136
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38191	136
38196	136
38204	137
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38235	137
38236	137
38237	137
38239	137
38240	137
38241	137
38243	137
38244	137
38246	137
38278	137
38279	137
38300	138
38301	138
38306	138
38307	138
38312	138
38313	138
38318	139
38319	139
38324	140
38325	140
38326	140
38327	140
38328	140
38333	140
38334	140
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38336	140
38337	140
38342	140
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38351	139
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38357	139
38358	139
38363	139
38364	139
38368	140
38369	140
38370	140
38371	140
38372	140
38711	87
38715	87
38718	87
38732	87
38761	87
38769	87
38770	87
38800	24
38802	24
38806	24
38808	24
38810	24
38828	24
38830	24
38832	24
38834	24
38836	24
38860	24
38862	24
38864	24
38866	24
38868	24
38873	25
38874	25
38910	494
38915	494
38920	494
38923	494
38926	494
38927	494
38950	493
38950B2	493
38951	493
38951B1	493
38951BA	493
38952	493
389522	493
389523	493
38952BA	493
38952G	493
38952G1	493
38952GA	493
38952O	493
38952OA	493
38952R	493
38952R1	493
38952RA	493
38952U	493
38952U1	493
38952UA	493
38952Y	493
38952Y1	493
38952YA	493
38953	493
38953B1	493
38953BA	493
38954	493
38954B5	493
38954BA	493
3895BA	493
38960	493
38960B5	493
38960BA	493
38960G	493
38960G5	493
38960GA	493
38960O	493
38960O5	493
38960OA	493
38960R	493
38960R5	493
38960RA	493
38960U	493
38960U5	493
38960UA	493
38960Y	493
38960Y5	493
38960YA	493
38965	493
38965B5	493
38965BA	493
38965G	493
38965G5	493
38965O	493
38965O5	493

Part#	Page
38965OA	493
38965U	493
38965U5	493
38965UA	493
39318	139
39319	139
39357	139
39358	139
39400	473
39402	473
39404	473
39406	473
39409	474
39410	474
39411	474
39411	475
39412	474
39413	474
39414	474
39415	474
39416	474
39418	474
39419	474
39425	474
39426	474
39436	476
39437	476
39438	476
39442	476
39443	476
39444	476
39446	476
39447	476
39448	476
39451	476
39452	476
39453	476
39454	476
39457	476
39459	476
39460	476
39461	476
39462	476
39463	475
39464	475
39465	491
39466	476
39467	476
39468	476
39469	475
39470	476
39471	475
39472	475
39473	475
39474	476
39475	476
39477	475
39506	477
39507	477
39508	477
39509	478
39510	478
39511	477
39512	477
39515	478
39516	478
39520	478
39521	478
39522	478
39524	478
39530	478
39531	478
39535	479
39537	479
39541	479
39542	479
39543	479
39544	479
39550	479
39551	479
39552	479
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39564	480
39565	480
39566	479
39570	480
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39592	483
39595	147
39595	483
39596	147
39596	483
39597	147
39597	483
39600	147
39600	483
39604	483
39605	483
39606	483
39610	483
39611	483
39613	483
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39616	484
39654	481
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39672	481
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39674	481
39675	481
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39677	481
39684	484
39687	484
39688	484
39689	484
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39712	490
39713	490
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39753	486
39754	486
39757	487
39758	487
39764	488
39765	488
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39768	488
39769	488
39772	487
39773	487
39774	487
39775	487
39778	488
39779	488
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39783	488
39786	487
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39792	489
39793	489
39794	489
39795	489
39800	489
39801	489
39802	489
39803	489
39805	489
39807	488
39809	488
39814	489
39818	487
39819	487
39820	487
39825	473
39828	477
39829	477
39830	477
39831	477
39832	477
39833	477
39834	477
39838	473
39839	473
39855	474
39856	474
39857	474
39860	480
39870	477
39871	477
39874	477
39875	477
39877	477
39878	477
39962	473
40001	242
400010	523
400012	523
400014	523
400016	523
40002	242
400020	523
400022	523
400024	523
40003	242
400032	523
40004	242
400044	523
40005	242
40006	242
400066	523
40007	242
40008	242
400088	523
40009	242
40010	242
40011	242
400110	523
400112	523
400116	523
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400120	523
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400124	523
40013	242
400132	523
40014	242
400144	523
40015	242
400166	523
40017	242
40018	242
400188	523
40019	242
40020	242
40021	242
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40160	246
40161	246
40162	246
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40164	246
40165	246
40166	246
40167	246
40168	246
40169	246
40170	246
40171	246
40172	246
40173	246
40174	246
40175	246
40176	246
40178	246
40179	246
40180	246
40181	246
40182	246
40183	246

NUMERICAL INDEX

Part#	Page
40184	246
40185	246
40186	246
40187	246
40200	247
40201	247
40202	247
40203	247
40204	247
40205	247
40206	247
40207	247
40209	247
40213	247
40220	247
40221	247
40222	247
40223	247
40224	247
40225	247
40226	247
40234	247
40254	247
40256	247
40259	247
40260	247
40261	247
41060	248
41061	248
41062	248
41063	248
41064	248
41065	248
41066	248
41067	248
41068	248
41069	248
41070	248
41074	248
41080	248
41081	248
41082	248
41083	248
41084	248
41085	248
41086	248
41087	248
41088	248
41089	248
41090	248
41100	248
41101	248
41102	248
41103	248
41104	248
41105	248
41106	248
41107	248
41108	248
41109	248
43101	265
43102	265
43103	265
43104	265
43105	265
43106	265
43107	265
43108	265
43109	265
43110	265
43165	265
43167	265
43183	265
43184	265
43185	265
43186	265
43187	265
43188	265
43189	265
43190	265
43200L	190
43200T	190
43204L	190
43206L	190
43251	266
43252	266
43253	266
43254	266
43255	266
43256	266
43257	266
43258	266
43259	266
43265LF	170
43266LF	170
43276	266
43291	266
43298	266
43393	266
43394	266
43395	266
43396	266
43397	266
43398	266
43411	266
43412	266
43413	266
43414	266
43415	266
43416	266
43417	266
43418	266
43419	266
43438	266
43441	266
43442	266
43446	266
43449	266
43450	266
43454	266
43473	266
43474	266
43475	266
43476	266
43477	266
43478	266
43601	266
43602	266
43603	266
43604	266
43605	266
43606	266
43607	266
43608	266
43609	266
43610	266
44.270DLF	262
44100	250
44100DLF	261
44101	250
44101DLF	261
44102	250
44102DLF	261
44103	250
44103DLF	261
44104	250
44104DLF	261
44105	250
44105DLF	261
44106	250
44106DLF	261
44107	250
44107DLF	261
44108	250
44108DLF	261
44109	250
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44110	250
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44112	250
44112DLF	261
44120	250
44120DLF	261
44120LF	250
44121DLF	261
44121LF	250
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44122LF	250
44123	250
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44124	250
44124DLF	261
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44126LF	250
44127	250
44127DLF	261
44127LF	250
44128DLF	261
44128LF	250
44129DLF	261
44129LF	250
44130DLF	261
44130LF	250
44131	250
44131DLF	261
44131LF	250
44132DLF	261
44132LF	250
44133DLF	261
44133LF	250
44134	250
44134DLF	261
44134LF	250
44135DLF	261
44135LF	250
44136DLF	261
44136LF	250
44137	250
44137DLF	261
44137LF	250
44138DLF	261
44138LF	250
44140	250
44140DLF	261
44140LF	250
44141DLF	261
44141LF	250
44142DLF	261
44142LF	250
44146LF	250
44150LF	250
44160	251
44160DLF	261
44160LF	251
44161	251
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44161LF	251
44162	251
44162DLF	261
44162LF	251
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44164LF	251
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44166	251
44166DLF	261
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44167	251
44167DLF	261
44167LF	251
44168	251
44168DLF	261
44168LF	251
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44169LF	251
44170	251
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44180	251
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44182	251
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44182LF	251
44183	251
44183DLF	261
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44188	251
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44188LF	251
44189	251
44189DLF	261
44189LF	251
44190	251
44190DLF	261
44190LF	251
44191LF	251
44200	251
44201	251
44201DLF	262
44201LF	251
44202	251
44202DLF	262
44202LF	251
44203	251
44203DLF	262
44203LF	251
44204	251
44204DLF	262
44204LF	251
44205	251
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44205LF	251
44206	251
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44206LF	251
44207	251
44207DLF	262
44207LF	251
44208	251
44208DLF	262
44208LF	251
44250DLF	262
44250LF	252
44251DLF	262
44251LF	252
44252DLF	262
44252LF	252
44253DLF	262
44253LF	252
44254DLF	262
44254LF	252
44255DLF	262
44255LF	252
44256DLF	262
44256LF	252
44257DLF	262
44257LF	252
44258DLF	262
44258LF	252
44259DLF	262
44259LF	252
44260DLF	262
44260LF	252
44261DLF	262
44261LF	252
44268LF	253
44270LF	253
44271DLF	262
44273DLF	262
44273LF	253
44276DLF	262
44276LF	253
44279LF	253
44280DLF	262
44280LF	253
44281DLF	262
44282DLF	262
44282LF	253
44283DLF	262
44283LF	253
44286DLF	262
44286LF	253
44287DLF	262
44287LF	253
44288DLF	262
44288LF	253
44288LF	253
44289DLF	262
44290LF	253
44291DLF	262
44291LF	253
44292LF	253
44293LF	253
44294DLF	262
44295DLF	262
44296DLF	262
44296LF	253
44297DLF	262
44298DLF	262
44298LF	253
44300DLF	262
44301LF	253
44302DLF	262
44303DLF	262
44303LF	253
44306DLF	262
44306LF	253
44310DLF	262
44314LF	253
44315LF	253
44316DLF	262
44316LF	253
44318DLF	262
44318LF	253
44322LF	253
44327LF	253
44328DLF	262
44328LF	253
44330DLF	262
44330LF	253
44334DLF	262
44334LF	253
44336LF	253
44344LF	253
44350DLF	262
44351LF	253
44364DLF	263
44391	252

Part#	Page
44391DLF	262
44391LF	252
44392	252
44392DLF	262
44392LF	252
44393	252
44393DLF	262
44393LF	252
44394	252
44394DLF	262
44394LF	252
44395	252
44395DLF	262
44395LF	252
44396	252
44396DLF	262
44396LF	252
44397	252
44397DLF	262
44397LF	252
44398	252
44398DLF	262
44398LF	252
444000	366
444001	366
444002	366
444005	366
444006	366
444007	366
444008	366
444011	366
444020	366
444021	366
444023	366
444040	366
444042	366
444045	366
444048	366
444049	366
444060	366
444062	366
444095	366
44410	254
44410DLF	263
44410LF	254
44411	254
444111	366
444112	366
444113	366
44411DLF	263
44411LF	254
44412	254
44412DLF	263
44412LF	254
44413	254
44413DLF	263
44413LF	254
44414	254
44414DLF	263
44414LF	254
44415	254
44415DLF	263
44415LF	254
44416	254
44416DLF	263
44416LF	254
44417	254
44417DLF	263
44417LF	254
44418	254
44418DLF	263
44418LF	254
44419	254
44419DLF	263
44419LF	254
44420	254
44420DLF	263
44420LF	254
44421LF	254
44430	254
44430DLF	263
44430LF	254
44431	254
444313	366
444318	366
44431DLF	263
44431LF	254
44432	254
444320	366
44432DLF	263
44432LF	254
44433	254
44433DLF	263
44434	254
44434DLF	263
44434LF	254
44435	254
44435DLF	263
44435LF	254
44436	254
44436DLF	263
44436LF	254
44437	254
44437DLF	263
44437LF	254
44438	254
44438DLF	263
44438LF	254
44440	254
44440DLF	263
44441	254
44441DLF	263
44441LF	254
44442	254
44442DLF	263
44442LF	254
44444	254
44444DLF	263
44444LF	254
44445	254
44445DLF	263
44445LF	254
44446	254
44446DLF	263
44446LF	254
44447	254
44447DLF	263
44447LF	254
44448	254
44448DLF	263
44448LF	254
44449	254
44449DLF	263
44449LF	254
44450	254
44450DLF	263
44450LF	254
44451	254
44451DLF	263
44451LF	254
44452	254
44452DLF	263
44452LF	254
44453	254
44453DLF	263
44453LF	254
44454	254
44454DLF	263
44454LF	254
44456	254
44456DLF	263
44458	254
44458DLF	263
44461	254
44461DLF	263
44462	254
44462DLF	263
44462LF	254
44463	254
44463DLF	263
44470	255
44470DLF	264
44470LF	255
44471	255
44471DLF	264
44471LF	255
44472	255
44472DLF	264
44472LF	255
44473	255
44473DLF	264
44473LF	255
44474	255
44474DLF	264
44474LF	255
44475	255
44475DLF	264
44475LF	255
44476	255
44476DLF	264
44476LF	255
44477	255
44477DLF	264
44477LF	255
44478	255
44478DLF	264
44478LF	255
44479	255
44479LF	255
44480	255
44480DLF	264
44480LF	255
44481LF	255
44500	256
44500LF	256
44501	256
44501LF	256
44502	256
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44503	256
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44504	256
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44505	256
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44506	256
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44507	256
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44509	256
44509LF	256
44510	256
44510DLF	264
44510LF	256
44511	256
44511DLF	264
44511LF	256
44512	256
44512DLF	264
44512LF	256
44513	256
44513DLF	264
44513LF	256
44514	256
44514DLF	264
44514LF	256
44515	256
44515DLF	264
44515LF	256
44516	256
44516DLF	264
44516LF	256
44517	256
44517DLF	264
44517LF	256
44518	256
44518DLF	264
44518LF	256
44519	256
44519DLF	264
44519LF	256
44520	256
44520DLF	264
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44521	256
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44522	256
44522DLF	264
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44523	256
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44524	256
44524DLF	264
44524LF	256
44527	256
44527DLF	264
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44528	256
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44529LF	256
44530	256
44530DLF	264
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44531	256
44531DLF	264
44531LF	256
44532	256
44532DLF	264
44532LF	256
44533LF	256
44534	256
44534DLF	264
44534LF	256
44535	256
44535DLF	264
44535LF	256
44537	256
44537LF	256
44538	256
44538DLF	264
44538LF	256
44539	256
44539DLF	264
44539LF	256
44541	256
44541DLF	264
44541LF	256
44542LF	256
44543	256
44543LF	256
44557	256
44600	255
44600LF	255
44601	255
44601DLF	264
44601LF	255
44602	255
44602DLF	264
44602LF	255
44603	255
44603DLF	264
44603LF	255
44604	255
44604DLF	264
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44606	255
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44607DLF	264
44607LF	255
44608	255
44608LF	255
44609	255
44609LF	255
44610	255
44610LF	255
44611LF	255
44630LF	257
44631LF	257
44632LF	257
44633	257
44633DLF	264
44633LF	257
44634	257
44634DLF	264
44634LF	257
44635	257
44635DLF	264
44635LF	257
44636	257
44636DLF	264
44636LF	257
44637	257
44637DLF	264
44637LF	257
44638	257
44638DLF	264
44638LF	257
44639	257
44639DLF	264
44639LF	257
44640	257
44640DLF	264
44640LF	257
44641	257
44641DLF	264
44641LF	257
44650	257
44650LF	257
44651	257
44651LF	257
44652	257
44652LF	257
44653	257
44653DLF	265
44653LF	257
44654	257
44654DLF	265
44654LF	257
44655	257
44655DLF	265
44655LF	257
44656	257
44656DLF	265
44656LF	257
44657	257
44657DLF	265
44657LF	257
44658	257
44658DLF	265
44658LF	257
44659	257
44659DLF	265
44659LF	257
44660	257
44660DLF	265
44660LF	257
44662	257
44662DLF	265
44662LF	257
44670	257
44670LF	257
44671	257
44671LF	257
44672	257

NUMERICAL INDEX

Part#	Page
44672DLF	265
44672LF	257
44673	257
44673DLF	265
44673LF	257
44674	257
44674DLF	265
44674LF	257
44675	257
44675DLF	265
44675LF	257
44676	257
44676DLF	265
44676LF	257
44677	257
44677DLF	265
44677LF	257
44678	257
44678DLF	265
44678LF	257
44679LF	257
44680LF	257
44681LF	257
44700LF	255
44701LF	255
44702LF	255
44703LF	255
44704LF	255
44705LF	255
44706LF	255
44707LF	255
44708LF	255
44720	258
44721	258
44722	258
44723	258
44724	258
44725	258
44726	258
44727	258
44728	258
44729	258
44730M	258
44740	258
44742	258
44750	258
44753	258
44780LF	258
44781LF	258
44782LF	258
44783LF	258
44784LF	258
44785LF	258
44790LF	258
44791LF	258
44792LF	258
44793LF	258
44794LF	258
44795LF	258
44796LF	258
44797LF	258
44798LF	258
44799LF	258
44800LF	258
44827LF	258
44828LF	258
44829LF	258
44830LF	258
44831LF	258
44839DLF	261
44840DLF	261
44840LF	267
44840LF	329
44841LF	267
44841LF	329
44842LF	267
44842LF	329
44843LF	267
44843LF	329
44844LF	267
44844LF	329
44845LF	267
44845LF	329
44963DLF	263
44964DLF	263
44965DLF	263
45100	259
45101	259
45102	259
45102LF	259
45103	259
45103LF	259
45104	259
45104LF	259
45105	259
45105LF	259
45124	259
45127	259
45160	259
45161	259
45162	259
45163	259
45164	259
45165	259
45180	260
45181	260
45182	260
45183	260
45184	260
45185	260
45200	259
45201	259
45202	259
45203	259
45204	259
45250	260
45251	260
45252	260
45253	260
45254	260
45255	260
45393	259
45394	259
45410	260
45411	260
45412	260
45413	260
45414	260
45415	260
45432	260
45435	260
45438	260
45439	260
45470	260
45471	260
45472	260
45473	260
45474	260
45475	260
45600	260
45601	260
45602	260
45603	260
45604	260
45605	260
45606	260
45652	260
45653	260
45654	260
45655	260
45657	260
46002	150
46002LF	171
46003	150
46003LF	171
46005LF	171
46011	150
46011LF	171
46011X	150
46012	150
46012LF	171
46013	150
46013LF	171
46015LF	171
46016LF	171
46020	150
46021	150
46021LF	171
46022	150
46022LF	171
46023	150
46023LF	171
46028	150
46029	150
46029LF	171
46031	150
46036	151
46038	151
46039	151
46040	151
46045	151
46045LF	171
46046	151
46046LF	171
46048	151
46048	462
46048S	462
46050	151
46051	151
46051LF	171
46055	151
46055LF	171
46056	151
46056LF	171
46056P	151
46060	151
46060LF	171
46061	151
46061L	151
46061LF	171
46064	147
46066	147
46067	147
46069	147
46070	147
46071	147
46072	147
46073	147
46074	148
46075	148
46076	148
46077	148
46078	148
46079	148
46080	148
46081	148
46082	148
46083	148
46084	148
46085	148
46086	148
46087	148
46088	148
46089	148
46089A	148
46090ALF	171
46090HLF	171
46091LF	171
46092LF	171
46093LF	171
46099LF	171
46130	149
46131	149
46132	149
46134	149
46140	149
46141	149
46142	149
46143	149
46151	149
46152	149
46152T	149
46153	149
46160	149
46161	149
46161T	149
46162	149
46165	149
46166	149
46166T	149
46167	149
46174LF	171
46175LF	171
46177LF	171
46237	154
46241	153
46243	153
46244	153
46247	153
46248	153
46250	153
46251	153
46252	153
46255	153
46256	153
46257	153
46260	153
46270	225
46277	225
46400	152
46400M	152
46401	152
46401M	152
46402	152
46402M	152
46406M	152
46411	152
46411M	152
46429M	152
46430M	152
46440	155
46443	155
46450	152
46451	152
46455	152
46456	152
46457	152
46465	152
46466	152
46467	152
46475	152
46476	152
46485	152
46500	156
46505	156
46510	156
46511	156
46512	156
46513	156
46514	156
46515	156
46516	156
46517	156
46518	156
46519	156
46520	154
46520A	154
46521	154
46521A	154
46522	154
46523	154
46523A	154
46524	154
46524A	154
46526	154
46529	154
46530	154
46530A	154
46531	154
46531A	154
46532	154
46532A	154
46533	154
46533A	154
46539	156
46540	12
46541	12
46560	156
46560V	156
46561	156
46561V	156
46562	156
46562V	156
46563	156
46563V	156
46564	156
46564V	156
46565	156
46566	156
46567	156
46568	156
46569	156
46570	156
46571	156
46572	156
46573	156
46575	156
46576	156
46577	156
46578	156
46600	465
46600	466
46600	467
46605	465
46605	466
46607	465
46615	464
46620	462
46621	462
46622	462
46630	462
46631	462
46650	107
46651	107
46652	107
46653	107
46660	107
46661	107
46662	107
46663	107
46670	107
46671	107
46672	107
46680	107
46681	107
46682	107
466900	107
466901	107
466902	107
46830	155
46832	155
46833	155
46834	155
46875	155
46878	155
46900	155
46903	155
46903I	198
46903ISB	198
46903SS	214
46904I	198
46904SS	214
46905SS	214
46910	155
46912	155
46912SS	214

Part#	Page
46913SS	214
46914SS	214
46920	155
46921	155
46922	155
46922A	155
46922I	198
46922SS	214
46923	155
46923I	198
46923SS	214
46924	155
46924I	198
46924SS	214
46925	155
46930	200
46930L	200
46930S	200
46930SS	213
46930T	200
46931	200
46931L	200
46931S	200
46931SS	213
46931T	200
46932	200
46932L	200
46932S	200
46932SS	213
46932T	200
46933	200
46933L	200
46933S	200
46933SS	213
46933T	200
46934	199
46934L	199
46934LS	199
46934LT	199
46934SS	213
46935	199
46935L	199
46935LS	199
46935LT	199
46935SS	213
46936	199
46936L	199
46936LS	199
46936LT	199
46936SS	213
46937	199
46937L	199
46937LS	199
46937SS	213
46951	155
46956	155
46980	155
46981	155
46986	154
46987	154
46988	154
46989	154
47042	155
48001	271
48002	271
48003	271
48004	271
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48010	271
48011	271
48015	271
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48209	275
48213	275
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48227	275
49001	271
49002	271
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49041	272
49042	272
49043	272
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49046	272
49047	272
49048	272
49049	272
49050	272
49052	272
49054	272
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49104	273
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49110	273
49111	273
49113	273
49120	274
49121	274
49122	274
49123	274
49124	274
49125	274
49126	274
49127	274
49128	274
49129	274
49140	274
49141	274
49142	274
49143	274
49144	274
49145	274
49146	274
49147	274
49148	274
49149	274
49151	274
49153	274
49160	275
49161	275
49162	275
49163	275
49164	275
49165	275
49166	275
49167	275
49168	275
49169	275
49170	275
49200	275
49201	275
49203	275
49205	275
49207	275
49209	275
49213	275
49220	275
49223	275
49234	275
49236	275
49240	275
50001	62
500012	421
50001212	512
5000128	512
500016	512
50001612	512
5000168	512
50002	512
500020	421
50002020	512
500024	512
500028	421
500032	512
500036	421
50004	467
50004	467
50004	512
500042	512
500048	421
500056	421
500064	512
500066	512
500072	421
50008	512
500084	512
500086	512
500088	421
500104	421
50011	62
500128	421
500152	421
50016	38
500188	421
500216	421
500248	421
500280	421
540402	124
540402S	124
540402SC	129
540404	124
540404S	124
540404SC	129
540412	512
5404126	512
5404128	512
540416	512
54041612	512
5404166	512
5404168	512
54042	512
540420	512
54042012	512
54042016	512
540424	512
54042412	512
54042416	512
54042420	512
54043224	512
54044	467
54044	467
54044	468
54044	468
54044	512
540442	512

NUMERICAL INDEX

Part#	Page
54046	512
540462	512
540464	512
54048	512
540484	512
540486	512
54051212	512
54051216	512
54051220	512
54051616	512
54051620	512
54052020	512
54052024	512
540522	512
540524	512
54052424	512
540542	512
540544	512
540548	512
5405612	512
540564	512
540566	512
540568	512
5405812	512
5405816	512
540588	512
540602	124
540602S	124
540602SC	129
540604	124
540604S	124
540604SC	129
540606	124
540606S	124
540606SC	129
540608	124
540608SC	129
5406124	513
5406126	513
5406128	513
54061612	513
5406164	513
5406166	513
5406168	513
54062012	513
54062016	513
5406206	513
5406208	513
54062412	513
54062416	513
54062420	513
5406248	513
54063212	513
54063216	513
54063220	513
54063224	513
540642	513
540662	513
540664	513
540682	513
540684	513
540686	513
5406C12	514
5406C16	514
5406C2	514
5406C4	514
5406C6	514
5406C8	514
5406FLP12	513
5406FLP2	513
5406FLP4	513
5406FLP6	513
5406FLP8	513
5406HHP12	513
5406HHP16	513
5406HHP2	513
5406HHP20	513
5406HHP24	513
5406HHP4	513
5406HHP6	513
5406HHP8	513
5406P12	513
5406P16	513
5406P2	513
5406P20	513
5406P24	513
5406P32	513
5406P4	513
5406P6	513
5406P8	513
5406SHP12	513
5406SHP16	513
5406SHP2	513
5406SHP20	513
5406SHP24	513
5406SHP32	513
5406SHP4	513
5406SHP6	513
5406SHP8	513
540802C	129
540804	124
540804S	124
540804SC	129
540806	124
540806S	124
540806SC	129
540808	124
540808S	124
540808SC	129
541006	124
541006SC	129
541008	124
541008S	124
541008SC	129
541208	124
541208SC	129
541212	124
545302C	129
550012	421
55001212	514
5500128	514
550016	514
55001612	514
55001612	514
55002	514
550020	421
55002016	514
55002020	514
550024	514
550028	421
550032	514
550036	421
55004	514
550042	514
550048	421
550056	421
55006	514
550064	514
550072	421
55008	514
550084	514
550086	514
550088	421
550104	421
55011212	515
55011616	515
550122	515
550128	421
550144	515
550152	421
550166	515
55018	515
550188	421
550212	515
5502128	515
550216	421
55021612	515
55021616	515
55022	515
550220	515
550224	515
55024	515
550248	421
55026	515
550264	515
550268	515
550280	421
5502812	515
550284	515
550286	515
550288	515
550312	421
55031212	515
550316	515
55032	515
55034	515
55036	515
55038	515
550412	515
5504128	515
550416	515
55041612	515
55042	515
550420	515
550424	515
55044	515
550442	515
55046	515
55048	515
550484	515
550486	515
550512	515
550516	515
550520	515
55054	515
55056	515
55058	515
55060	331
55061	331
55062	331
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55115	331
55116	331
55117	331
55118	331
55120	331
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55129	331
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55135	331
55140	332
55141	332
55142	332
55143	332
55144	332
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55148	332
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55200	332
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55234	332
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55238	332
55239	332
55240	331
55241	331
55242	332
55243	331
55244	331
55245	331
55246	331
55247	331
56001	285
560012	516
560016	516
56002	285
560022	516
56003	285
56004	285
560044	516
56005	285
56006	285
560066	516
56007	285
56008	285
560088	516
56009	285
56010	285
56011	285
560112	516
560116	516
56012	285
560122	516
56013	285
56014	285
560144	516
56015	285
560166	516
56017	285
56020	285
56021	285
560212	516
560216	516
56022	285
560222	516
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56024	285
560244	516
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56026	285
560266	516
56027	285
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560288	516
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560312	516
560316	516
56032	285
560322	516
56033	285
56034	285
560344	516
56035	285
56036	285
560366	516
56038	285
560388	516
56040	286
56041	286
560412	516
560416	516

Part#	Page
56042	286
560422	516
56043	286
56044	286
560444	516
56045	286
56046	286
560466	516
56047	286
56048	286
560488	516
56049	286
56050	286
56051	286
560512	516
560516	516
56052	286
560520	516
560522	516
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56250	287
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56300	292
56330	291
56331	291
56332	291
56430	286
57001	285
57002	285
57003	285
57004	285
57005	285
57006	285
57007	285
57008	285
57009	285
57010	285
57011	285
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57052	286
57053	286
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57100	288
57101	288
57102	288
57103	288
57104	288
57105	288
57106	288
57107	288
57108	288
57109	288
57110	288
57111	288
57112	288
57113	288
57114	288
57115	288
57120	289
57121	289
57122	289
57123	289
57124	289
57125	289
57126	289
57127	289
57128	289
57129	289
57130	289
57131	289
57132	289
57133	289
57134	289
57135	289
57140	289
57141	289
57142	289
57143	289
57144	289
57145	289
57146	289
57147	289
57148	289
57149	289
57150	289
57151	289
57152	289
57153	289
57154	289
57155	289
57160	290
57161	290
57162	290
57162GBS	301
57162TV	300
57162V	301
57163	290
57164	290
57164TV	300
57164V	301
57165	290
57166	290
57167	290
57168	290
57168TV	300
57168V	301
57169	290
57170	290
57170TV	300
57170V	301
57171	290
57172	290
57172TV	300
57172V	301
57173	290
57174	290
57174TV	300
57174V	301
57180	290
57181	290
57182	290
57183	290
57184	290
57185	290
57186	290
57187	290
57188	290
57189	290
57190	290
57191	290
57192	290
57193	290
57200	291
57201	291
57201GBS	301
57201TV	300
57201V	301
57202	291
57203	291
57203TV	300
57203V	301
57204	291
57205	291
57206	291
57207	291
57207TV	300
57207V	301

NUMERICAL INDEX

Part#	Page
57208	291
57209	291
57209TV	300
57209V	301
57210	291
57211	291
57211TV	300
57211V	301
57212	291
57213	291
57213TV	300
57213V	301
57220	291
57222GBS	301
57222TV	300
57223	291
57223TV	300
57223V	301
57224	291
57225	291
57226	291
57227	291
57227TV	300
57227V	301
57228	291
57228TV	300
57228V	301
57229	291
57229TV	300
57229V	301
57240	286
57241	286
57242	286
57243	286
57244	286
57245	286
57246	286
57247	286
57250	287
57251	287
57252	287
57253	287
57254	287
57255	287
57256	287
57257	287
57260	288
57261	288
57262	288
57263	288
57264	288
57265	288
57266	288
57267	288
57270	289
57271	289
57272	289
57273	289
57275	289
57280	289
57281	289
57282	289
57283	289
57285	289
57286	289
57290	290
57291	290
57292	290
57293	290
57294	290
57295	290
57296	290
57297	290
57300	292
57301	292
57304	292
57305	292
57306	292
57308	292
57311	291
57330	291
57331	291
57332	291
57332TV	300
57332V	301
57400GBS	301
57430	286
57431	286
57500GBS	301
57600GBS	301
59001SMLS	293
59002SMLS	293
59003SMLS	293
59004SMLS	293
59005SMLS	293
59006SMLS	293
59007SMLS	293
59009SMLS	293
59010SMLS	293
59011SMLS	293
59020SMLS	293
59021SMLS	293
59022SMLS	293
59023SMLS	293
59024SMLS	293
59025SMLS	293
59026SMLS	293
59027SMLS	293
59028SMLS	293
59029SMLS	293
59030SMLS	293
59031SMLS	293
59032SMLS	293
59033SMLS	293
59034SMLS	293
59036SMLS	293
590400	120
59040SMLS	294
59041SMLS	294
59042SMLS	294
59043SMLS	294
59044SMLS	294
59045SMLS	294
59046SMLS	294
59047SMLS	294
59048SMLS	294
59049SMLS	294
59050SMLS	294
59052SMLS	294
59054SMLS	294
59056SMLS	294
590600	120
59060SMLS	294
59060SMLSXX	299
59061SMLS	294
59062SMLS	294
59062SMLSXX	299
59063SMLS	294
59064SMLS	294
59064SMLSXX	299
59065SMLS	294
59066SMLS	294
59066SMLSXX	299
59067SMLS	294
59068SMLS	294
59069SMLS	294
59070SMLS	294
59070SMLSXX	299
59071SMLS	294
59072SMLS	294
59073SMLS	294
59074SMLS	294
59075SMLS	294
59076SMLS	294
590800	120
59080SMLS	295
59080SMLSXX	299
59081SMLS	295
59082SMLS	295
59082SMLSXX	299
59083SMLS	295
59084SMLS	295
59085SMLS	295
59086SMLS	295
59086SMLSXX	299
59087SMLS	295
59088SMLS	295
59089SMLS	295
59090SMLS	295
59090SMLSXX	299
59091SMLS	295
59092SMLS	295
59094SMLS	295
59096SMLS	295
59100SMLS	295
59100SMLSXX	299
59101SMLS	295
59101SMLSXX	299
59102SMLS	295
59103SMLS	295
59103SMLSXX	299
59104SMLS	295
59105SMLS	295
59105SMLSXX	299
59106SMLS	295
59107SMLS	295
59108SMLS	295
59109SMLS	295
59109SMLSXX	299
59110SMLS	295
59111SMLS	295
59111SMLSXX	299
59112SMLS	295
59113SMLS	295
59114SMLS	295
59115SMLS	295
59115SMLSXX	299
59120SMLS	296
59121SMLS	296
59122SMLS	296
59123SMLS	296
59124SMLS	296
59125SMLS	296
59126SMLS	296
59127SMLS	296
59128SMLS	296
59129SMLS	296
59130SMLS	296
59131SMLS	296
59132SMLS	296
59133SMLS	296
59134SMLS	296
59135SMLS	296
59140SMLS	296
59141SMLS	296
59142SMLS	296
59143SMLS	296
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59147SMLS	296
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59150SMLS	296
59151SMLS	296
59152SMLS	296
59153SMLS	296
59154SMLS	296
59155SMLS	296
59160SMLS	297
59160SMLSXX	299
59161SMLS	297
59161SMLSXX	299
59162SMLS	297
59162SMLSXX	299
59162V	301
59163SMLS	297
59163SMLSXX	299
59164SMLS	297
59164SMLSXX	299
59164V	301
59165SMLS	297
59166SMLS	297
59166SMLSXX	299
59167SMLS	297
59168SMLS	297
59168SMLSXX	299
59168V	301
59169SMLS	297
59169SMLSXX	299
59170SMLS	297
59170SMLSXX	299
59170V	301
59171SMLS	297
59171SMLSXX	299
59172SMLS	297
59172SMLSXX	299
59172V	301
59173SMLS	297
59174SMLS	297
59174SMLSXX	299
59174V	301
59179SMLSXX	299
59180SMLS	297
59181SMLS	297
59182SMLS	297
59183SMLS	297
59184SMLS	297
59185SMLS	297
59186SMLS	297
59187SMLS	297
59188SMLS	297
59189SMLS	297
59190SMLS	297
59191SMLS	297
59192SMLS	297
59193SMLS	297
59196SMLS	297
59197SMLS	297
59198SMLS	297
59199SMLS	297
59201TV	300
59201V	301
59203TV	300
59203V	301
59207TV	300
59207V	301
59209TV	300
59209V	301
59211TV	300
59211V	301
59213TV	300
59213V	301
59220SMLS	298
59221SMLS	298
59221TV	300
59221V	301
59222TV	300
59223SMLS	298
59224SMLS	298
59225SMLS	298
59225TV	300
59225V	301
59226SMLS	298
59227SMLS	298
59227TV	300
59227V	301
59228SMLS	298
59229SMLS	298
59229TV	300
59229V	301
59231SMLS	298
59231TV	300
59231V	301
59300SMLS	298
59301SMLS	298
59305SMLS	298
59306SMLS	298
59308SMLS	298
595320	120
600006	417
600008	417
600010	417
600012	417
600016	417
600020	417
600024	417
600028	417
600032	417
600036	417
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600104	417
61050	531
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61054	531
611006	418
611008	418
611010	418
611012	418
611016	418
611020	418
611024	418
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611036	418
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611080	418
611088	418
611096	418
611104	418
611116	418
611128	418
611152	418
611164	418
611176	418
611188	418
611200	418
611212	418
611224	418
611248	418
611270	418
611312	418
611332	418
611390	418
61150	531
61152	531
61153	531
61154	531
61447	357
61448	357
61449	357
61450	357
61451	357
61452	357
61453	357
61454	357
61455	357
61457	357

Part#	Page
61775	269
61776	269
61777	269
61778	269
61-851	348
61-853	348
61-854	348
61859	348
61860	348
61861	348
61865	349
61866	349
61867	349
61868	349
61872	348
61873	348
61874	348
61875	348
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61877	348
61878	348
61879	348
619001	349
619002	349
619003	349
619004	349
619005	349
619006	349
619007	349
619008	349
619009	349
619010	349
619011	349
619012	349
619440	349
619450	349
619470	349
619480	349
620006	419
620006SS	420
620008	419
620008SS	420
620010	419
620010SS	420
620012	419
620012SS	420
620016	419
620016SS	420
620020	419
620020SS	420
620024	419
620024SS	420
620028	419
620028SS	420
620032	419
620032SS	420
620036	419
620036SS	420
620040	419
620040SS	420
620044	419
620044SS	420
620048	419
620048SS	420
620052	419
620052SS	420
620056	419
620056SS	420
620060	419
620060SS	420
620064	419
620064SS	420
620072	419
620072SS	420
620080	419
620088	419
620096	419
620104	419
620116	419
620128	419
620152	419
620164	419
620176	419
620188	419
620200	419
620212	419
620224	419
620248	419
620270	419
620312	419
620332	419
620390	419
620400	120
620400C	127
620409C	130
620532	120
620532C	127
620553C	130
620555C	130
620557C	130
620559C	130
620600	120
620600C	127
620604	120
620604C	130
620606C	130
62075	280
62076	280
62077	280
62078	280
62079	280
62080	280
620800	120
620800C	127
620806C	130
620808C	130
62081	280
62082	280
62083	280
621000	120
621000C	127
621200	120
62160	277
62161	277
62162	277
62163	277
62164	277
62165	277
62166	277
62167	277
62168	277
62169	277
62180	277
62181	277
62182	277
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62250	278
62251	278
62252	278
62253	278
62254	278
62255	278
62256	278
62257	278
62258	278
62259	278
62260	278
62391	278
62392	278
62393	278
62394	278
62395	278
62396	278
62397	278
62398	278
62410	279
62410B	279
62411	279
62411B	279
62412	279
62412B	279
62413	279
62413B	279
62414	279
62414B	279
62415	279
62415B	279
62415DC	269
62415HDDC	269
62416	279
62416B	279
62416DC	269
62416HDDC	269
62417	279
62417B	279
62417DC	269
62417HDDC	269
62418	279
62418B	279
62418DC	269
62418HDDC	269
62419	279
62420	279
62420B	279
62421	279
62428	279
62430	279
62431	279
62432	279
62433	279
62434	279
62435	279
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62600	280
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62720	278
62721	278
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63167	277
63168	277
63170	277
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63190	277
63192	277
63214	13
63215	13
63216	13
63217	13
63218	13
63250	278
63251	278
63252	278
63253	278
63254	278
63255	278
63256	278
63257	278
63258	278
63260	278
63261	278
63390	278
63391	278
63392	278
63393	278
63394	278
63395	278
63396	278
63397	278
63398	278
63400	278
63401	278
63410	279
63410B	279
63411	279
63411B	279
63412	279
63412B	279
63413	279
63413B	279

NUMERICAL INDEX

Part#	Page
63414	279
63414B	279
63415	279
63415B	279
63416	279
63416B	279
63417	279
63417B	279
63418	279
63418B	279
63419	279
63420	279
63421	279
63430	279
63431	279
63432	279
63433	279
63434	279
63435	279
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63500	281
63501	281
63502	281
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63683	283
63684	283
63701	282
63702	282
63703	282
63704	282
63705	282
63706	282
63707	282
63708	282
63720	278
63721	278
63722	278
63723	278
63724	278
63725	278
63726	278
63727	278
63728	278
63740	278
63741	278
63742	278
63744	278
63745	278
63747	278
63748	278
63749	278
63759	283
63760	283
63761	283
63762	283
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63765	283
63771	280
63772	280
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63775	280
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63850	354
63851	354
63852	354
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63854	354
63855	354
63856	354
63857	354
639002	354
639003	354
639004	354
639440	354
639450	354
639470	354
639480	354
640010	517
64001012	517
6400106	517
6400108	517
640012	517
64001210	517
64001214	517
64001216	517
6400128	517
640016	517
64001612	517
64001620	517
64001624	517
64002	517
640020	517
64002012	517
64002016	517
64002024	517
640024	517
64002420	517
64002432	517
64003	517
640032	517
64003224	517
64004	517
640042	517
640046	517
640048	517
64005	517
64006	517
6400610	517
6400612	517
6400616	517
640064	517
640068	517
64008	517
6400810	517
6400812	517
640084	517
640086	517
6401108	517
64011212	517
6401128	517
64011616	517
64012020	517
64012020	517
64012424	517
640142	517
640144	517
640164	517
640166	517
6401812	517
640186	517
640188	517
6402O1010	517
6402O1212	517
6402O44	517
6402O66	517
6402O68	517
6402O86	517
6402O88	517
6403O12	517
6403O16	517
6403O4	517
6403O6	517
6403O8	517
640400	120
640400C	127
6404108	518
64041212	518
64041616	518
640442	518
640444	518
640464	518
640466	518
640468	518
640486	518
640488	518
6405O104	518
6405O106	518
6405O108	518
6405O1212	518
6405O1216	518
6405O126	518
6405O128	518
6405O1612	518
6405O1616	518
6405O2020	518
6405O22	518
6405O2416	518
6405O2420	518
6405O2424	518
6405O32	518
6405O3224	518
6405O3232	518
6405O34	518
6405O42	518
6405O44	518
6405O52	518
6405O54	518
6405O62	518
6405O64	518
6405O66	518
6405O68	518
6405O812	518
6405O84	518
6405O86	518
6405O88	518
640600	120
640600C	127
640800	120
640800C	127
6408HO10	518
6408HO12	518
6408HO14	518
6408HO16	518
6408HO2	518
6408HO20	518
6408HO24	518
6408HO4	518
6408HO5	518
6408HO6	518
6408HO8	518
6408O10	518
6408O12	518
6408O14	518
6408O16	518
6408O2	518
6408O20	518
6408O24	518
6408O4	518
6408O5	518
6408O6	518
6408O8	518
64100	305
641000	120
641000C	127
64101	305
64102	305
64103	305
64104	305
64105	305
64106	305
64107	305
64108	305
64109	305
6410O124	519
6410O126	519
6410O128	519
6410O1612	519
6410O166	519
6410O168	519
6410O2012	519
6410O2016	519
6410O2412	519
6410O2416	519
6410O2420	519
6410O3216	519
6410O3220	519
6410O3224	519
6410O46	519
6410O64	519
6410O68	519
6410O812	519
6410O84	519
6410O86	519
6410O88	519
64110	305
64112	305
64114	305
641200	120
64122	305
64123	305
64124	305
64126	305
64127	305
64130	305
64131	305
64133	305
64134	305
64136	305
64137	305
64138	305
64140	305
64141	305
64142	305
64145	305
64146	305
64148	305
64160	305
64161	305
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64165	305
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64167	305
64168	305
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64171	305
64180	306
64181	306
64182	306
64183	306
64184	306
64185	306
64186	306
64187	306
64188	306
64189	306
64190	306
64191	306
64192	306
64250	307
64251	307
64252	307
64253	307
64254	307
64255	307
64256	307
64257	307

Part#	Page
64258	307
64259	307
64260	307
64261	307
64262	307
64268	307
64269	307
64273	307
64276	307
64279	307
64280	308
64282	307
64283	307
64286	307
64289	308
64291	307
64298	307
64299	308
64300	308
64301	307
64303	307
64306	307
64316	307
64317	308
64318	307
64322	307
64327	307
64328	307
64330	307
64334	307
64336	307
64343	307
64351	307
64363	308
64364	308
64383	308
64384	308
64385	308
64386	308
64390	306
64391	306
64392	306
64393	306
64394	306
64395	306
64396	306
64397	306
64398	306
64399	306
64400	306
64410	309
64411	309
64412	309
64413	309
64414	309
64415	309
64416	309
64417	309
64418	309
64419	309
64420	309
64421	309
64422	309
64430	309
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64464	309
64465	309
64470	311
64471	311
64472	311
64473	311
64474	311
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64476	311
64477	311
64478	311
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64480	311
64481	311
64482	311
64486	309
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650010	519
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65004	519
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6501108	519
65011212	519
65011616	519
65012020	519
65012424	519
65013232	519
650142	519
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650186	519
650188	519
650210	519
650212	519
650216	519
65024	519
65026	519
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650364	519
650366	519
650386	519
650388	519
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650400C	127
65041010	520
65041212	520
65041616	520
65042020	520
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65051616	520
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650588	520
650600	120
650600C	127
6506106	520
65061212	520
6506128	520
65061616	520
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65062424	520
65063232	520
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650688	520
650800	120
650800C	127
65100	305
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65104	305
65105	305
65106	305
65107	305
65108	305
65109	305
65110	305
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65114	305
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65122	305
65123	305
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65127	305
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65142	305
65145	305
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65148	305
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65194	306
65250	307
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65273	307
65276	307
65279	307
65282	307
65283	307
65286	307
65291	307
65298	307
65301	307
65303	307
65306	307
65316	307
65318	307
65322	307
65327	307

NUMERICAL INDEX

Part#	Page
65328	307
65330	307
65334	307
65336	307
65342	307
65343	307
65351	307
65359	307
65383	308
65384	308
65385	308
65386	308
65387	308
65388	308
65390	306
65391	306
65392	306
65393	306
65394	306
65395	306
65396	306
65397	306
65398	306
65399	306
65400	306
65401	306
65410	309
65411	309
65412	309
65413	309
65414	309
65415	309
65416	309
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65418	309
65419	309
65420	309
65421	309
65422	309
65430	309
65431	309
65432	309
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65444	309
65445	309
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65447	309
65448	309
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65450	309
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65458	309
65459	309
65460	309
65461	309
65462	309
65463	309
65464	309
65465	309
65470	311
65471	311
65472	311
65473	311
65474	311
65475	311
65476	311
65477	311
65478	311
65479	311
65480	311
65481	311
65482	311
65486	309
65500	310
65501	310
65502	310
65503	310
65504	310
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65508	310
65509	310
65510	310
65511	310
65512	310
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65523	310
65524	310
65525	310
65526	310
65527	310
65528	310
65529	310
65530	310
65531	310
65532	310
655320	120
655320C	127
65533	310
65534	310
65535	310
65537	310
65538	310
65539	310
65540	310
65541	310
65542	310
65543	310
65544	310
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65551	310
65552	310
65553	310
65555	310
65583	312
65584	312
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65586	312
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65588	312
65600	311
65601	311
65602	311
65603	311
65604	311
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65606	311
65607	311
65608	311
65609	311
65610	311
65611	311
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65651	311
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65660	311
65661	311
65662	311
65664	311
65692	313
65693	313
65694	313
65695	313
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65706	312
65707	312
65708	312
65721	307
65770	302
65770API	303
65770H	302
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65771H	302
65772	302
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65773	302
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65778	302
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65779	302
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65779H	302
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65781H	302
65782	302
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65784API	303
65963	312
65964	312
65965	312
65966	312
65967	312
65968	312
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65970	312
65971	312
66000	362
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660010	520
660012	520
660016	520
66002	362
660020	520
66003	362
66004	362
660044	520
66005	362
66006	362
660066	520
66007	362
66008	362
660088	520
66009	362
66010	362
66011	362
66012	362
66013	362
66-015	357
66-015	362
660212	520
660216	520
660224	520
66024	520
66025	520
66026	520
66028	520
660402	121
660402C	127
660404	121
660404C	127
660406C	127
660602	121
660602C	127
660604	121
660604C	127
660606	121
660606C	127
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660802C	127
660804	121
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660808	121
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66470	314
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66472	314
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66512	314
66513	314
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665304C	127
66630	315
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66670	315
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66672	315
66700	314
66701	314
66702	314
66704	314
66705	314
66708	314
66709	314
66712	314
66713	314
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67637	315
67638	315
67653	315
67654	315
67655	315
67656	315
67657	315
67658	315
67669	315
67670	315

Part#	Page
67671	315
67672	315
67700	314
67701	314
67702	314
67703	314
67704	314
67705	314
67707	314
67708	314
67709	314
67711	314
67712	314
67713	314
67760	315
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67776	315
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6801NW068	521
6801NWO10	521
6801NWO1016	521
6801NWO106	521
6801NWO108	521
6801NWO12	521
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6801NWO1216	521
6801NWO128	521
6801NWO16	521
6801NWO1612	521
6801NWO1620	521
6801NWO20	521
6801NWO2016	521
6801NWO2024	521
6801NWO24	521
6801NWO32	521
6801NWO4	521
6801NWO46	521
6801NWO48	521
6801NWO6	521
6801NWO612	521
6801NWO64	521
6801NWO8	521
6801NWO810	521
6801NWO812	521
6801NWO816	521
6801NWO86	521
6802NWO10	521
6802NWO1012	521
6802NWO108	521
6802NWO12	521
6802NWO1216	521
6802NWO16	521
6802NWO1612	521
6802NWO1620	521
6802NWO2	521
6802NWO20	521
6802NWO2016	521
6802NWO24	521
6802NWO32	521
6802NWO4	521
6802NWO46	521
6802NWO6	521
6802NWO68	521
6802NWO8	521
6802NWO810	521
6802NWO812	521
6802NWO86	521
680302	121
6803NWO10	521
6803NWO12	521
6803NWO16	521
6803NWO4	521
6803NWO6	521
6803NWO8	521
680402	121
680402C	128
680404	121
680404C	128
680406	121
680406C	128
680421	121
6804NWO10	520
6804NWO12	520
6804NWO16	520
6804NWO4	520
6804NWO6	520
6804NWO8	520
6805NWO108	521
6805NWO1212	521
6805NWO128	521
6805NWO1616	521
6805NWO2020	521
6805NWO2424	521
6805NWO42	521
6805NWO44	521
6805NWO64	521
6805NWO66	521
6805NWO86	521
6805NWO88	521
680602	121
680602C	128
680604	121
680604C	128
680606	121
680606C	128
680608	121
680608C	128
6806NWO1212	522
6806NWO1616	522
6806NWO44	522
6806NWO66	522
6806NWO88	522
680804	121
680804C	128
680806	121
680806C	128
680808	121
680808C	128
6809NWO1212	522
6809NWO44	522
6809NWO66	522
6809NWO88	522
681006	121
681006C	128
681008	121
681008C	128
681208	121
681208C	128
681212	121
6815NWO1010	522
6815NWO1212	522
6815NWO44	522
6815NWO66	522
6815NWO88	522
685301C	128
685302C	128
685304C	128
685320	121
685321	121
685322	121
6900O1012	522
6900O104	522
6900O106	522
6900O108	522
6900O1212	522
6900O128	522
6900O1612	522
6900O1616	522
6900O42	522
6900O44	522
6900O46	522
6900O48	522
6900O64	522
6900O66	522
6900O68	522
6900O812	522
6900O84	522
6900O86	522
6900O88	522
6901NWO104	523
6901NWO106	523
6901NWO108	523
6901NWO1212	523
6901NWO126	523
6901NWO128	523
6901NWO1612	523
6901NWO1616	523
6901NWO2016	523
6901NWO2020	523
6901NWO2424	523
6901NWO3232	523
6901NWO42	523
6901NWO44	523
6901NWO64	523
6901NWO66	523
6901NWO68	523
6901NWO812	523
6901NWO84	523
6901NWO86	523
6901NWO88	523
6902NWO108	523
6902NWO1212	523
6902NWO128	523
6902NWO1616	523
6902NWO42	523
6902NWO44	523
6902NWO46	523
6902NWO64	523
6902NWO66	523
6902NWO68	523
6902NWO84	523
6902NWO86	523
6902NWO88	523
690302	122
690402	122
690402S	122
690402SC	128
690404	122
690404S	122
690404SC	128
690406	122
690406S	122
690406SC	128
690602	122
690602S	122
690602SC	128
690604	122
690604S	122
690604SC	128
690606	122
690606S	122
690606SC	128
690608	122
690608S	122
690608SC	128
690804	122
690804S	122
690804SC	128
690806	122
690806S	122
690806SC	128
690808	122
690808S	122
690808SC	128
691006	122
691006S	122
691006SC	128
691008	122
691008S	122
691008SC	128
69101	316
69102	316
69103	316
69104	316
69105	316
69106	316
69107	316
69108	316
691208	122
691208S	122
691208SC	128
691212	122
691212S	122
69161	316
69162	316
69163	316
69164	316
69165	316
69166	316
69167	316
69168	316
69181	316
69182	316
69183	316
69184	316
69185	316
69186	316
69187	316
69188	316
69252	316
69253	316
69254	316
69255	316
69256	316
69257	316
69258	316
69411	316
69412	316
69413	316
69414	316
69415	316
69416	316
69417	316
69418	316
69432	317
69434	317
69435	317
69438	317
69441	317
69442	317
69471	317
69472	317
69473	317
69474	317
69475	317
69476	317
69477	317
69478	317
695302	122
695322	122
695322S	122
695322SC	128
69600	317
69601	317
69602	317
69603	317
69604	317
69605	317
69606	317
69607	317
69608	317
70001012	527
7000108	527
70001212	527
7000128	527
70001616	527
700042	527
700044	527
700064	527
700066	527
700068	527
7000812	527
700086	527
700088	527
7002108	528
70021212	528
70021216	528
70021616	528
700242	528
700244	528
700246	528
700248	528
700264	528
700266	528
700268	528
7002812	528
700286	528
700288	528
700402	123
700402SC	128
700404	123
700404S	123
700404SC	128
700406	123
700406SC	128
70051018	529
70051020	529
70051022	529
70051222	529
7005410	529
7005412	529
7005414	529
7005418	529
7005512	529
7005514	529
7005614	529
7005616	529
7005618	529
7005816	529
7005818	529
7005822	529
700602	123
700602C	128
700604	123
700604SC	128
700606	123
700606SC	128
700608SC	128
700804C	128
700806	123
700806SC	128
700808	123
700808SC	128
7022108	529
70221212	529
70221616	529
702242	529
702244	529
702266	529
702288	529
70251022	530
70251227	530
70251633	530
7025410	530
7025412	530
7025512	530
7025614	530
7025616	530
7025816	530
70421212	529
70421616	529

NUMERICAL INDEX

Part#	Page
704222	529
704242	529
704244	529
704266	529
704288	529
70451227	530
70451633	530
7045210	530
7045412	530
7045414	530
7045612	530
7045616	530
7045618	530
7045816	530
7045818	530
7045822	530
705302C	128
705304C	128
710402	123
710402S	124
710402SC	129
710404	123
710404S	124
710404SC	129
71040604	123
710604	123
71060404	123
71060406	123
710604S	124
710604SC	129
710606	123
710606S	124
710606SC	129
710608	123
710608SC	129
710804C	129
710804S	124
710806	123
710806S	124
710806SC	129
710808C	129
710808S	124
715301C	129
715302C	129
715304C	129
72001212	527
720042	527
720044	527
720064	527
720066	527
720068	527
720086	527
720088	527
7202NWO108	528
7202NWO1212	528
7202NWO1216	528
7202NWO1616	528
7202NWO42	528
7202NWO44	528
7202NWO64	528
7202NWO66	528
7202NWO68	528
7202NWO812	528
7202NWO86	528
7202NWO88	528
720302	124
720402	124
720402S	125
720402SC	129
720404	124
720404S	125
720404SC	129
720406SC	129
7205NWO1018	530
7205NWO410	530
7205NWO412	530
7205NWO414	530
7205NWO512	530
7205NWO614	530
7205NWO616	530
7205NWO816	530
7205NWO818	530
7205NWO822	530
720602S	125
720604	124
72060404	124
720604S	125
720604SC	129
720606	124
720606S	125
720606SC	129
720608C	129
720804	124
720804C	129
720804S	125
720806	124
720806S	125
720806SC	129
720808	124
720808S	125
720808SC	129
721006C	129
72100808	124
721008C	129
724010	528
724012	528
724016	528
72404	528
72406	528
72408	528
725301C	129
725302C	129
725304C	129
73003	363
73004	363
73005	363
73006	363
73007	363
73008	363
73009	363
73010	363
73011	363
73023	363
73024	363
73025	363
73026	363
73027	363
73028	363
73033	363
73035	363
73036	363
73037	363
73038	363
73039	363
73040	363
73041	363
73043	364
73044	364
73045	364
73046	364
73047	364
73048	364
73049	364
73050	364
73051	364
73063	363
73064	363
73065	363
73066	363
73067	363
73068	363
73070	363
73200N5	439
73203B	440
73203B1	440
73203B5	440
73203G	440
73203N1	439
73203N5	439
73203R	440
73203R1	440
73203R5	440
73204B	440
73204N5	439
73205B	440
73205B5	440
73206B	440
73206B1	440
73206B5	440
73206N1	439
73206N5	439
73206R	440
73206R5	440
73207B	440
73207B5	440
73207N5	439
73208B	440
73230B	441
73231B	441
73232B	441
73232N5	441
73233B	441
73238B	441
73238U	441
73341B	438
73341R	438
73341U	438
73343B	438
73343R	438
73343U	438
73345B	438
73345R	438
73345U	438
73346R	438
73670	361
73671	361
73672	361
73673	361
73674	361
73951	27
73951	282
73952	27
73952	282
73953	27
73953	282
73954	27
73954	282
73955	27
73955	282
73956	27
73956	282
73957	27
73957	282
73958	27
73958	282
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73959	282
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73961	282
73970	27
73970	283
73971	27
73971	283
73972	27
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73973	283
73974	27
73974	283
73975	27
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73976	27
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73977	283
73979	27
73979	283
73980	27
73980	283
73981	27
73981	283
73982	27
73982	283
73983	361
73984	361
73985	361
73986	361
73987	361
7420108	527
74201212	527
7420128	527
74201612	527
74201616	527
742022	527
742042	527
742064	527
742066	527
742086	527
742088	527
742510	528
742512	528
742516	528
74252	528
74254	528
74258	528
746436	172
746437	172
746438	172
746439	172
746440	172
746446	172
746456	172
746457	172
746466	172
746506	172
746536	172
746537	172
746538	172
746546	172
746556	172
746566	172
746567	172
75201010	527
75201212	527
752022	527
752044	527
752066	527
752088	527
770402	125
770402C	129
770404	125
770404C	129
770604	125
770604C	129
770806C	129
77100	324
771004C	129
77101	324
77102	324
77104	324
77107	324
77108	324
77110	324
77113	324
77114	324
77116	324
77124	324
77125	324
77126	324
77127	324
77128	324
77129	324
77130	324
77131	324
77132	324
77139	324
77140	324
77141	324
77142	324
77143	324
77144	324
77145	324
77154	324
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77162	325
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77177	325
77178	325
77179	325
77180	325
77181	325
77182	325
77183	325
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77185	325
77201	325
77202	325
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77226	325
77238	326
77240	326
77241	326
77242	326
77244	326
77252	326
77253	326
77254	326
77255	326
77256	326
77258	326
77262	326
77263	326
77265	326
77267	326
77268	326
77269	326
77270	326
77271	326
77272	326
77273	326
77275	326
77276	326
77277	326
77280	326
77291	326
77292	326
77293	326
77294	326
77295	326

Part#	Page
77296	326
77297	326
77298	326
77300	326
77303	327
77306	327
77307	327
77308	327
77309	327
77311	327
77312	327
77314	327
77315	327
77318	327
77322	327
77331	327
77333	327
77334	327
77335	327
77336	327
77337	327
77341	328
77343	328
77345	328
77346	328
77347	328
77349	328
77352	326
77354	326
77355	326
77357	326
77358	326
77359	326
77360	326
77361	326
77363	326
77365	326
77393	327
77394	327
77395	327
77398	327
77401	327
77402	328
77406	328
77410	328
77413	328
77419	328
77420	328
77423	328
77424	328
77429	328
77430	328
77431	328
77432	328
77433	328
77434	328
77435	328
77436	328
77437	328
77453	328
77454	328
77455LF	328
77456LF	328
77457LF	328
77461	328
77462	328
77463	328
77464	328
77467	329
77468	329
77470	329
77473	329
77481	329
77483	329
77485	329
77486	329
77488	329
77489	329
77490	329
77493	329
77496	329
77498	329
77499	329
77501	329
77504	329
77506	329
77507	329
77508	329
77514	329
77518	329
77519	329
77522	329
77523	329
77543	329
77547	329
77548	329
77549	329
77606LF	328
77607LF	328
77608LF	328
780212	528
780216	528
78024	528
78026	528
78028	528
782512	528
782516	528
78252	528
78254	528
78256	528
78258	528
80001	469
80002	469
80003	469
80004	469
80005	469
80006	469
80007	469
80020	469
80031	469
80032	469
80033	469
80034	469
80035	469
80036	469
80061	470
80062	470
80063	470
80064	470
80065	470
80066	470
80067	470
80068	470
80069	470
80080	470
80081	470
80100	470
80101	470
80102	470
80103	470
80104	470
80105	470
80201	470
80202	470
80203	470
80204	470
80205	470
80206	470
80207	470
80208	470
80209	470
80301	469
80302	469
80303	469
80304	469
80305	469
80306	469
80307	469
80331	469
80332	469
80333	469
80334	469
80335	469
80336	469
80463	470
80501	469
80502	469
80503	469
80504	469
80505	469
80506	469
80511	469
80512	469
80513	469
80514	469
80515	469
80516	469
80601	470
80602	470
80603	470
80604	470
80605	470
80606	470
80611	470
80612	470
80613	470
80614	470
80615	470
80616	470
820400	125
820400C	130
820600	125
820600C	130
820800	125
820800C	130
821000	125
821000C	130
825320C	130
830808	125
8401088	422
840131	422
840150	422
840175	422
840188	422
840200	422
840225	422
840238	422
840250	422
840256	422
840263	422
840275	422
840288	422
840300	422
840312	422
840325	422
840350	422
840375	422
840382	422
840400	422
840425	422
840450	422
840475	422
840500	422
840525	422
840550	422
840575	422
840600	422
840625	422
840650	422
840675	422
840700	422
840750	422
840800	422
840850	422
840888	422
841004	429
841005	429
841040	429
841045	429
841050	429
841175	429
841200	429
841250	429
841300	429
841350	429
841400	429
841450	429
841500	429
842010	426
842012	426
842016	426
842020	426
842024	426
842200	426
842250	426
842300	426
842350	426
842400	426
842450	426
842500	426
843321	426
843382	426
843388	426
843450	426
843461	426
843475	426
843525	426
843588	426
844213	425
844225	425
844238	425
844250	425
844263	425
844275	425
844300	425
844306	425
844313	425
844325	425
844338	425
844350	425
844356	425
844363	425
844375	425
844406	425
844413	425
844425	425
844456	425
844500	425
844525	425
844600	425
844625	425
845200	430
845300	430
845350	430
845400	430
845500	430
845-500SS	430
845600	430
846200	430
846250	430
846275	430
846300	430
846350	430
846400	430
846500	430
847200	430
847250	430
847275	430
847300	430
847350	430
847400	430
847500	430
847600	430
848200	430
848225	430
848250	430
848275	430
848300	430
848350	430
848400	430
848500	430
848600	430
848700	430
8555H10	530
8555H12	530
8555H14	530
8555H16	530
8555H18	530
8555H20	530
8555H22	530
8555H26	530
8555H30	530
8555P10	530
8555P12	530
8555P14	530
8555P16	530
8555P18	530
8555P20	530
8555P22	530
8555P26	530
8555P30	530
86001	449
86002	449
86005	449
86006	449
86012	449
86013	449
86017	449
86018	449
86020	449
86022	449
86030	448
86030RG	449
86030SS	448
86031	448
86031RG	449
86031SS	448
86032	448
86035	448
86035RG	449
86035SS	448
86036	448
86036RG	449
86036SS	448
86037	448
86040	448
860402	125
860402C	130
860404	125
860404C	130
86040SS	448
86041	448
86041SS	448
86042	448
86045	448
86045SS	448
86046	448
86046SS	448
86047	448
860604	125
860604C	130
860606	125
860606C	130
860806C	130
860808	125
860808C	130
865304C	130
87001	461
87002	461
87003	461
87004	461
87008	461
87009	461
87020	461
87021	461
87023	461

NUMERICAL INDEX

Part#	Page
88024	434
88028	434
88032	434
88038	434
880402C	130
880404C	130
880406C	130
88050	434
88056	434
88065	434
88075	434
88085	434
88095	434
88112	434
89024	434
89028	434
89032	434
89038	434
89044	434
89050	434
89056	434
89065	434
89075	434
89085	434
89095	434
89112	434
899000	224
899001	224
899002	224
899003	224
899004	224
899005	224
899050	224
899051	224
899052	224
899053	224
899054	224
899055	224
90001	318
90002	318
90003	318
90004	318
90005	318
90006	318
90007	318
90008	318
90009	318
90010	318
90011	318
90100	319
90102	319
90103	319
90104	319
90105	319
90106	319
90107	319
90108	319
90109	319
90110	319
90111	319
90114	319
90115	319
90116	319
90117	319
90118	319
90119	319
90120	319
90121	319
90122	319
90123	319
90124	319
90125	319
90126	319
90127	319
90128	319
90129	319
90130	319
90131	319
90132	319
90133	319
90140	319
90141	319
90150	319
90152	319
90212	318
90213	318
90215	318
90500	178
9050004	177
9050005	177
9050006	177
905001	178
905021	178
905022	178
905023	178
905024	178
905025	178
905026	178
905031	178
905032	178
905033	178
905034	178
905035	178
905036	178
90507	177
90590	176
90593	176
91007	318
91008	318
91009	318
91010	318
91011	318
91707	442
920012	174
920016	174
920020	174
920030	174
920036	174
92010	434
92011	434
920112	174
920116	174
92012	434
920120	174
92013	434
920130	174
920136	174
92014	434
92015	434
92016	434
92017	434
920412	174
920416	174
920420	174
920430	174
920436	174
920448	174
92102	319
92107	319
92108	319
92109	319
92110	319
92111	319
92114	319
92115	319
92116	319
92119	319
92120	319
921209	174
92121	319
921212	174
921216	174
92122	319
921220	174
92123	319
92128	319
921509	174
921512	174
921516	174
921520	174
922009	173
922012	172
922012	173
922016	172
922020	172
922024	173
922030	172
922030	173
922036	172
922036	173
922048	173
922060	173
922072	173
922096	173
922112	172
922116	172
922120	172
922130	172
922136	172
922412	172
922416	172
922420	172
922430	172
922436	172
922712	173
922718	173
922724	173
922812	173
922818	173
922824	173
922912	173
922918	173
922924	173
923112	173
923124	173
923136	173
923148	173
923161	173
923196	173
923209	172
923212	172
923216	172
923220	172
923509	172
923512	172
923520	172
923648	173
923660	173
923672	173
923684	173
923936	173
923948	173
923960	173
923972	173
924115	173
924118	173
924124	173
924248	173
924260	173
924272	173
924284	173
924297	173
93001	318
93008	434
93009	434
93011	434
93013	434
93014	434
93016	434
93017	434
93113	318
93121	318
93122	318
93123	318
93124	318
93125	318
93127	318
93128	318
93129	318
93130	318
93131	318
93139	318
93212	318
935044LF	169
935045LF	169
940121	202
940122	202
940123	202
940130	204
940130LF	183
940131	204
940131LF	183
940132	204
940132LF	183
940133	204
940133LF	183
940134	204
940134LF	183
940135	204
940135LF	183
940136	204
940136LF	183
940137	204
940137LF	183
940138	204
940139	204
940140	204
940142LF	183
940143LF	183
940144LF	183
940145LF	183
940146LF	183
940147LF	183
940171	186
940171L	187
940171LF	181
940171T	187
940172	186
940172L	187
940172LF	181
940172T	187
940173	186
940173L	187
940173LF	181
940173T	187
940174	186
940174L	187
940174LF	181
940174T	187
940175	186
940175L	187
940175LF	181
940176	186
940176L	187
940176LF	181
940177	186
940177L	187
940177LF	181
940178	186
940178L	187
940178LF	181
940179	186
940179LF	181
940180	186
940180LF	181
940181	186
940181LF	181
940212LF	182
940213LF	182
940214LF	182
940215LF	182
940216LF	182
940217LF	182
940281	224
940282	224
940284	224
940285	224
940286	224
940287	224
940288	224
940289	224
940291	224
940292	224
940294	224
940295	224
940296	224
940297	224
940298	224
940299	224
940300	224
940301	224
940302	224
940325	225
940326	225
940327	225
940328	225
940329	225
940330	225
940331	225
940332	225
940333	225
940334	225
940335	225
940336	225
940352	207
940352LF	183
940353	207
940353LF	183
940354	207
940354LF	183
940355	207
940355LF	183
940356	207
940356LF	183
940357	207
940357LF	183
940358	207
940359	207
940360	207
940362LF	183
940363LF	183
940364LF	183
940365LF	183
940366LF	183
940367LF	183
940403LF	184
940404LF	184
940405LF	184
940406LF	184
940407LF	184
940408LF	184
940409LF	184
940410LF	184
940411LF	184
940461	202
940462	202
940464	202
940465	202
940521	206
940522	206
940523	206
940523LF	183
940524	206
940525	206
940526	206
940527	206
940528	206
940529	206
940530	206
940800	458
940801	458
940803	458
940804	458
940805	458
940806	458
940810	459

Part#	Page
940811	459
940812	459
940813	459
940814	459
940815	459
940822	459
940823	459
940824	459
940825	459
940826	459
940827	459
940840	459
940841	459
940842	459
940843	459
940844	459
940845	459
940846	459
940847	459
940848	459
941121NP	189
941122NP	189
941123NP	189
941124NP	189
941125NP	189
941126NP	189
941127NP	189
941128NP	189
941133	205
941134	205
941135	205
941136	205
941137	205
941138	205
941140	205
941141	205
941151LF	180
941151NP	188
941152LF	180
941152NP	188
941153LF	180
941153NP	188
941154LF	180
941154NP	188
941155LF	180
941155NP	188
941156LF	180
941156NP	188
941157LF	180
941157NP	188
941158LF	180
941158NP	188
941159LF	180
941160LF	180
941161LF	180
941163LF	180
941164LF	180
941165LF	180
941166LF	180
941167LF	180
941168LF	180
942100	203
942101	203
942102	203
942142	203
942170	203
942171	203
942208	190
942209	190
942210	190
943200	190
943201	190
943202	190
943203	190
943204	190
943205	190
943206	190
943207	190
943212	197
943213	197
943233LF	182
943234LF	182
943235LF	182
943236LF	182
943237LF	182
943284	203
943287	203
943311	197
943312	197
943313	197
943331	197
943332	197
943342	197
943343	197
943344	197
943345	197
943347	197
943348	197
943350	197
943351	197
943612LF	181
943613LF	181
943614LF	181
943615LF	181
943616LF	181
943617LF	181
944100	201
944101	201
944102	201
944103	201
944106	201
944107	201
944109	201
944110	201
944112	201
944113	201
944116	201
944117	201
944128	201
944130	201
944132	201
944134	201
944134LF	162
944134LF	201
944135	201
944136	201
944138	201
944139	201
944140	201
944142	201
944142LF	162
944142LF	201
944401	209
944402	209
944402V	209
944403	209
944403V	209
944404	209
944404V	209
944405	209
944405V	209
944406	209
944406V	209
944407	209
944407V	209
944408	209
944408V	209
944409	209
944409V	209
944410	209
944410V	209
944411	209
944411V	209
944428	208
944429	208
944430	208
944430LF	183
944431	208
944431LF	183
944432	208
944432LF	183
944433	208
944433LF	183
944434	208
944434LF	183
944435LF	183
945601LF	185
945602LF	185
945603LF	185
945604LF	185
945605LF	185
945606LF	185
945611LF	185
945612LF	185
945613LF	185
945614LF	185
945615LF	185
945616LF	185
945621LF	185
945622LF	185
945623LF	185
945631LF	185
945632LF	185
945633LF	185
945640LF	185
945650LF	185
945651LF	185
945652LF	185
947055	203
947055LF	203
947103	195
947104	195
947105	195
947111	195
947112	195
947113	195
947125	196
947126	196
947133	203
947134	203
947140	208
947141	208
947142	208
947143	208
947144	208
947145	208
948101	192
948102	192
948103	192
948104	192
948105	192
948106	192
948107	192
948108	192
948131	196
948132	196
948133	196
948134	196
948135	196
948141	196
948142	196
948143	196
948144	196
948170	191
948170L	194
948170T	193
948171	191
948171L	194
948171T	193
948172	191
948172L	194
948172T	193
948173	191
948173L	194
948173T	193
948174	191
948174L	194
948174T	193
948175	191
948175L	194
948176	191
948176L	194
948176T	193
948177	191
948177L	194
949101	211
949102	211
949103	211
949104	211
949105	211
949106	211
949107	211
949108	211
949111	221
949112	221
949113	221
949114	221
949115	221
949116	221
949117	221
949118	221
949121	220
949122	220
949123	220
949124	220
949125	220
949126	220
949127	220
949128	220
949161	212
949162	212
949163	212
949164	212
949165	212
949166	212
949167	212
949168	212
949170	212
949171	210
949172	210
949173	210
949174	210
949175	210
949176	210
949177	210
949178	210
949180	212
949253	219
949254	219
949255	219
949256	219
949257	219
949258	219
949303	219
949304	219
949305	219
949306	219
949307	219
949308	219
949353	219
949354	219
949355	219
949356	219
949357	219
949358	219
949401	216
949402	216
949403	216
949404	216
949405	216
949406	216
949407	216
949408	216
949430	215
949431	215
949432	215
949441	218
949442	218
949443	218
949444	218
949445	218
949446	218
949447	218
949448	218
949451	217
949452	217
949453	217
949454	217
949455	217
949471	217
949472	217
949473	217
949474	217
949475	217
949481	218
949482	218
949483	218
949484	218
949485	218
949486	218
949487	218
949488	218
949521	219
949522	219
949523	219
949524	219
949525	219
949526	219
949527	219
949528	219
950812	527
95082	527
95084	527
95086	527
95088	527
9522H12	529
9522H16	529
9522H2	529
9522H4	529
9522H6	529
9522H8	529
9522P12	529
9522P16	529
9522P2	529
9522P4	529
9522P6	529
9522P8	529
95300	435
95301	435
95302	435
95303	435
95304	435
95305	435
95306	435
95307	435
95308	435
95309	435
95310	435
95311	435
95312	435
95313	435
95314	435
95315	435
95316	435
95317	435
95318	435
95319	435
95320	435
95321	435
95322	435
95323	435
95324	435
95325	435
95326	435
95327	435
95328	435

NUMERICAL INDEX

Part#	Page
95329	435
95330	435
95331	435
95402	435
95404	435
95406	435
95408	435
95410	435
95414	435
95418	435
95422	435
95424	435
95427	435
95432	435
95433	435
95450	490
95451	490
95452	490
95504	435
95506	435
95508	435
95510	435
95512	435
95514	435
95516	435
95518	435
95522	435
95523	435
95524	435
95601	491
95602	491
95603	491
95604	491
95605	491
95606	491
95610	491
95611	491
95612	491
95613	491
95620	492
95621	492
95622	492
95623	492
95624	492
95625	492
95626	492
95627	492
95628	492
95631	475
95640	475
95641	475
9600FJ10	236
9600FJ12	236
9600FJ3	236
9600FJ4	236
9600FJ6	236
9600FJ8	236
9600FL10	234
9600FL12	234
9600FL25	234
9600FL3	234
9600FL4	234
9600FL6	234
9600FL8	234
9600MJ10	235
9600MJ12	235
9600MJ3	235
9600MJ4	235
9600MJ6	235
9600MJ8	235
96022	434
96027	434
96032	434
96040	434
96050	434
96060	434
96070	434
96080	434
96090	434
96100	434
9610F10	233
9610F12	233
9610F25	233
9610F3	233
9610F4	233
9610F6	233
9610F8	233
9610NYCF10	233
9610NYCF12	233
9610NYCF25	233
9610NYCF3	233
9610NYCF4	233
9610NYCF6	233
9610NYCF8	233
96110	434
96120	434
96130	434
96140	434
96150	434
96160	434
962003	232
962004	232
962006	232
962008	232
962010	232
962010LW	231
962010UL	231
962012	232
962012LW	231
962012UL	231
96203LW	231
96203UL	231
96204LW	231
96204UL	231
96206LW	231
96206UL	231
96208LW	231
96208UL	231
963002	230
963003	230
963004	230
963005	230
963006	230
963008	230
96301	435
963010	230
963012	230
963014	230
963016	230
96302	435
963025	230
96303	435
96304	435
96305	435
96306	435
96307	435
96308	435
96310	435
96312	435
96314	435
96316	435
96318	435
96320	435
96322	435
96323	435
9650EX1224	229
9650EX1236	229
9650EX1248	229
9650EX1260	229
9650EX1272	229
9650EX2324	229
9650EX2336	229
9650EX2348	229
9650EX2360	229
9650EX2372	229
9650EX4624	229
9650EX4636	229
9650EX4648	229
9650EX4660	229
9650EX4672	229
9650G10	227
9650G10SE	227
9650G12	227
9650G120	229
9650G12SE	227
9650G2	227
9650G2.5	227
9650G2.5SE	227
9650G23	229
9650G2SE	227
9650G3	227
9650G3SE	227
9650G4	227
9650G46	229
9650G4SE	227
9650G6SE	227
9650G8	227
9650G812	229
9650G86	227
9650G8SE	227
9650IP23	229
9650IP46	229
9650IP812	229
9650L10	227
9650L10SE	227
9650L12	227
9650L120	229
9650L12SE	227
9650L2	227
9650L2.5	227
9650L23	229
9650L2SE	227
9650L3	227
9650L3SE	227
9650L4	227
9650L46	229
9650L4SE	227
9650L5	227
9650L5SE	227
9650L6	227
9650L6SE	227
9650L8	227
9650L812	229
9650L8SE	227
9650RP12	229
9650RP23	229
9650RP46	229
9650WH23	229
9650WH46	229
9650WH812	229
9660G10	228
9660G10SE	228
9660G12	228
9660G12SE	228
9660G2	228
9660G2.5	228
9660G2.5SE	228
9660G2SE	228
9660G3	228
9660G3SE	228
9660G4	228
9660G4SE	228
9660G6	228
9660G6SE	228
9660G8	228
9660G8SE	228
9660L10	228
9660L10SE	228
9660L12	228
9660L12SE	228
9660L2	228
9660L2.5	228
9660L2SE	228
9660L3	228
9660L3SE	228
9660L4	228
9660L4SE	228
9660L5	228
9660L5SE	228
9660L6	228
9660L6SE	228
9660L8	228
9660L8SE	228
970207	239
970208	239
970217	239
970218	239
970227	239
970228	239
970253	239
970254	239
970255	239
970257	239
970258	239
970300	267
970301	267
970302	267
970303	267
970304	267
970305	267
970306	267
970307	267
970308	267
970309	267
970310	267
970311	267
970312	267
970313	267
970314	267
970330	267
970331	267
970332	267
970333	267
970700	267
970701	267
970702	267
970703	267
970704	267
970705	267
970706	267
970707	267
972171	443
972172	443
972173	443
972180	443
972181	443
972182	443
972183	443
972184	443
972185	443
972186	443
972187	443
972190	443
972191	443
972192	443
972193	443
972194	443
972195	443
973200	439
973203	439
973204	439
973205	439
973206	439
973207	439
973208	439
973215	442
973216	442
973217	442
973219	442
973221	442
973223	442
973224	442
973226	441
973230	441
973231	441
973232	441
973233	441
973234	441
973238	441
973252	442
973253	442
973255	442
973262	442
973323	441
973325	441
973326	441
973327	441
973329	441
973332	441
973334	441
973341	438
973343	438
973567	292
973568	292
973569	292
973600	360
973601	360
973602	360
973603	360
973604	360
973605	360
973606	360
973607	360
973620	360
973621	360
973622	360
973623	360
973624	360
973625	360
973626	360
973627	360
973628	360
973650	361
973651	361
973652	361
973653	361
973654	361
973655	361
973656	361
973657	361
973658	361
973659	361
973667	292
973668	292
973669	292
973700	359
973701	359
973702	359
973703	359
973704	359
973705	359
973706	359
973707	359
973708	359
973850	359
973851	359
973852	359
973853	359
973854	359
973855	359
973856	359
973857	359
973858	359
973859	359
973861	359
973862	359
973863	359
973864	359
973865	359
973866	359
973867	359
973868	359
973869	359
973870	359
973871	359
973872	359

Part#	Page
973873	359
973874	359
973875	359
973876	359
973877	359
973878	359
973879	359
973880	359
973881	359
973884	359
973885	359
973886	359
973887	359
973888	359
973890	361
973891	361
973892	361
973893	361
973894	361
973895	361
973900	268
973901	268
973902	268
973903	268
973904	268
973905	268
973906	268
973907	268
973908	268
973909	268
973910	268
973911	268
973912	268
973913	268
973914	268
973925	268
973925SS	269
973926SS	269
973927	268
973927SS	269
973928	268
973928SS	269
973929	268
973930	268
973930SS	269
973947SS	269
973948	268
973948SS	269
973949	268
973949SS	269
973951	27
973951	282
973952	27
973952	282
973953	27
973953	282
973954	27
973954	282
973955	27
973955	282
973956	27
973956	282
973957	27
973957	282
973958	27
973958	282
973959	27
973959	282
973960LF	269
973961LF	269
973962LF	269
973963LF	269
973965	268
973965LF	269
973966	268
973966LF	269
973967	268
973967LF	269
973969LF	269
973970LF	269
973971LF	269
973975	268
973975LF	269
973976	268
973976LF	269
973977	268
973978	268
973979	268
973980	268
973980SS	269
973981	268
973982	268
973982SS	269
973985SS	269
973990	27
973990	282
973991	27
973991	282
974264	268
974265	268
974266	268
974267	268
97433	176
97435	176
97443	176
97445	176
97510	176
97513	176
97535	176
97538	176
97545	176
97548	176
97550	176
97553	176
97560	176
97563	176
97570	176
97573	176
97803	176
97805	176
97813	176
97815	176
97823	176
97825	176
97833	176
97835	176
97843	176
97845	176
97853	176
97855	176
97863	176
97865	176
97873	176
97875	176
97883	176
97883	176
97885	176
97895	176
97903	176
97905	176
97913	176
97915	176
979215	170
97923	176
97925	176
982107	467
982107	472
982108	472
982109	472
982110	472
982120	472
982121	472
982122	472
982125	472
982126	472
982130	472
982131	472
982132	472
982135	472
982136	472
982137	472
982138	472
982140	472
983100	472
983101	472
983110	472
983111	472
983115	472
983116	472
983120	472
983121	472
983125	472
983126	472
983130	472
98801	452
98802	452
98810	451
98811	451
98812	451
98814	452
98815	452
98823	451
98824	451
98825	451
98828	452
98830	452
98840	451
98841	451
98842	452
990570	442
990571	442
990781	292
990782	292
990783	292
990784	292
990785	292
990786	292
990790	492
990791	492
990792	492
990793	492
990794	492
991249	471
991250	471
991251	471
991259	471
995210	471
995211	471
995212	471
995213	471
995214	471
995215	471
995216	471
995217	471
99803	452
99804	452
99812	451
99816	452
99817	452
99825	451
99826	451
99828	452
99830	452
99841	451
99843	451
ANV12F	531
ANV12M	531
ANV14F	531
ANV14M	531
ANV1F	531
ANV1M	531
ANV34F	531
ANV34M	531
ANV38F	531
ANV38M	531
AR2	460
ARI-300	378
ARI-400	378
ARI-600	378
BC2-075A-DP	364
BC2-075C-DP	364
BC4-100B-DP	364
BC4-125-DP	364
BC4-200A-DP	364
BC4-200-DP	364
BE-300-SP	362
BG100	358
BG125	358
BG150	358
BG200	358
BG250	358
BG300	358
BG400	358
BG50	358
BG500	358
BG600	358
BG75	358
BG800	358
BLAY-100	389
BLAY-125	389
BLAY-150	389
BLAY-150-CASS	389
BLAY-200	389
BLAY-200-CASS	389
BLAY-250	389
BLAY-300	389
BLAY-300-CASS	389
BLAY-400	389
BLAY-400-CASS	389
BLAY-600	389
BLAY-600-CASS	389
BLOW150-300	375
BLOW150-400	375
BRLAYHD-200	390
BRLAYHD-300	390
BRLAYHD-400	390
BRLAYHD-600	390
BSB-400-187	379
BSB-400-250	379
BSB-450-125	379
BSB-500-187	379
BSB-500-250	379
BSB-600-250	379
CC-1113	432
CC-1315	432
CC-1517	432
CC-1518	432
CC-1720	432
CC-2023	432
CC-2225	432
CC-2327	432
CC-2528	432
CC-2731	432
CC-3134	432
CC-3437	432
CC-3740	432
CCP-1098	433
CDC-050-A1	347
CDC-050-B1	356
CDC-050-PP	351
CDC-050-SS1	353
CDC-075-A1	347
CDC-075-B1	356
CDC-075-PP	351
CDC-075-SS1	353
CDC-1000-A	347
CDC-100-A1	347
CDC-100-B1	356
CDC-100-PP	351
CDC-100-SS1	353
CDC-125-A1	347
CDC-125-B1	356
CDC-125-PP	351
CDC-125-SS1	353
CDC-150-A1	347
CDC-150-B1	356
CDC-150-PP	351
CDC-150-SS1	353
CDC-200-A1	347
CDC-200-B1	356
CDC-200-PP	351
CDC-200-SS1	353
CDC-250-A1	347
CDC-250-B1	356
CDC-250-SS1	353
CDC-300-A1	347
CDC-300-B1	356
CDC-300-PP	351
CDC-300-SS1	353
CDC-400-A1	347
CDC-400-B1	356
CDC-400-PP	351
CDC-400-SS1	353
CDC-500-A1	347
CDC-500-B1	356
CDC-500-SS1	353
CDC-600-A1	347
CDC-600-B1	356
CDC-600-SS1	353
CDC-800-A1	347
CDC-800-SS1	353
CDCSL-200-A1	398
CDCSL-200-SS1	399
CDCSL-300-A1	398
CDCSL-300-SS1	399
CDCSL-400-A1	398
CDCSL-400-SS1	399
CDCSL-600-A1	398
CDCSL-600-SS1	399
CDP-050-A1	347
CDP-050-B1	356
CDP-050-PP	351
CDP-050-SS1	353
CDP-075-A1	347
CDP-075-B1	356
CDP-075-PP	351
CDP-075-SS1	353
CDP-1000-A	347
CDP-100-A1	347
CDP-100-B1	356
CDP-100-PP	351
CDP-100-SS1	353
CDP-125-A1	347
CDP-125-B1	356
CDP-125-PP	351
CDP-125-SS1	353
CDP-150-A1	347
CDP-150-B1	356
CDP-150-PP	351
CDP-150-SS1	353
CDP-200-A1	347
CDP-200-B1	356
CDP-200-PP	351
CDP-200-SS1	353
CDP-250-A1	347
CDP-250-B1	356
CDP-250-SS1	353
CDP-300-A1	347
CDP-300-B1	356
CDP-300-PP	351
CDP-300-SS1	353
CDP-400-A1	347
CDP-400-B1	356
CDP-400-PP	351
CDP-400-SS1	353
CDP-500-A1	347
CDP-500-B1	356
CDP-600-A1	347
CDP-600-B1	356
CDP-600-SS1	353
CDP-800-A1	347
CDP-800-SS1	353
CF-05101-SS304	407

NUMERICAL INDEX

Part#	Page
CF-05101S-SP	403
CF-05102-SS304	407
CF-08105-SP	403
CF-08105-SS304	407
CF-08106-SS304	407
CF-08108-SS304	407
CF-10108-SS304	407
CF-10109-SP	403
CF-10109-SS304	407
CF-10110-SP	403
CF-10110-SS304	407
CF-10111-SP	403
CF-10111-SS304	407
CF-13113-SP	403
CF-13114-SP	403
CF-13114-SS304	408
CF-13115-SS304	408
CF-15115-SP	404
CF-15115-SS304	408
CF-15200-SS304	408
CF-15201-SP	404
CF-15201-SS304	408
CF-15202L-SP	404
CF-15202-SP	404
CF-15202-SS304	408
CF-15203-SP	404
CF-15203-SS304	408
CF-15204-SS304	408
CF-15205-SP	404
CF-15205-SS304	408
CF-20208-SP	404
CF-20208-SS304	408
CF-20209L-SP	404
CF-20209-SP	404
CF-20209-SS304	408
CF-20210-SP	404
CF-20210-SS304	408
CF-20211L-SP	404
CF-20211-SP	404
CF-20211-SS304	408
CF-20212L-SP	404
CF-20212-SP	404
CF-20212-SS304	408
CF-20213L-SP	404
CF-20213-SP	404
CF-20213-SS304	408
CF-20214-SP	404
CF-20214-SS304	408
CF-20215-SP	404
CF-25303L-SP	405
CF-25303-SP	405
CF-30309-SP	405
CF-30309-SS304	408
CF-30310L-SP	405
CF-30310-SP	405
CF-30310-SS304	408
CF-30311L-SP	405
CF-30311-SP	405
CF-30311-SS304	408
CF-30312L-SP	405
CF-30312-SP	405
CF-30312-SS304	408
CF-30313L-SP	405
CF-30313-SP	405
CF-30313-SS304	408
CF-30314L-SP	405
CF-30314-SP	405
CF-30314-SS304	408
CF-30315L-SP	405
CF-30315-SP	405
CF-30315-SS304	408
CF-30400L-SP	405
CF-30400-SP	405
CF-30400-SS304	408
CF-40409-SP	406
CF-40410L-SP	406
CF-40410-SP	406
CF-40410-SS304	409
CF-40411L-SP	406
CF-40411-SP	406
CF-40411-SS304	409
CF-40412L-SP	406
CF-40412-SP	406
CF-40412-SS304	409
CF-40413L-SP	406
CF-40413-SP	406
CF-40413-SS304	409
CF-40414L-SP	406
CF-40414-SP	406
CF-40414-SS304	409
CF-40415L-SP	406
CF-40415-SP	406
CF-40415-SS304	409
CF-40500L-SP	406
CF-40500-SP	406
CF-40501L-SP	406
CF-40501-SP	406
CF-60610-SP	406
CF-60612-SP	406
CF-60614-SP	406
CF-60702-SP	406
CF-60704-SP	406
CFT-08104T-SS304	407
CFT-08106T-SP	403
CFT-08106T-SS304	407
CFT-08107T-SP	403
CFT-08107T-SS304	407
CFT-08108T-SP	403
CFT-08108T-SS304	407
CFT-08109T-SP	403
CFT-08109T-SS304	407
CFT-10114T-SP	403
CFT-10115T-SP	403
CFT-10117T-SP	403
CFT-10117T-SS304	407
CFT-10118T-SP	403
CG-050-VI	358
CG-075-NBR	358
CG-075-VI	358
CG-100-NBR	358
CG-100-VI	358
CG-125-NBR	358
CG-125-VI	358
CG-150-NBR	358
CG-150-VI	358
CG-200-EPDM	358
CG-200-NBR	358
CG-200-VI	358
CG-250-NBR	358
CG-250-VI	358
CG-300-EPDM	358
CG-300-NBR	358
CG-300-VI	358
CG-400-NBR	358
CG-400-VI	358
CG-500-NBR	358
CG-50-EPDM	358
CG-600-NBR	358
CG-800-NBR	358
CGA-050-A1	346
CGA-050-B1	355
CGA-050-PP	350
CGA-050-SS1	352
CGA-075-A1	346
CGA-075-B1	355
CGA-075-PP	350
CGA-075-SS1	352
CGA-1000-A	346
CGA-100-A1	346
CGA-100-B1	355
CGA-100-PP	350
CGA-100-SS1	352
CGA-125-A1	346
CGA-125-B1	355
CGA-125-PP	350
CGA-125-SS1	352
CGA-150-A1	346
CGA-150-B1	355
CGA-150-PP	350
CGA-150-SS1	352
CGA-1520-A	348
CGA-200-A1	346
CGA-200-B1	355
CGA-200-PP	350
CGA-200-SS1	352
CGA-2015-A	348
CGA-2030-A	348
CGA-250-A1	346
CGA-250-B1	355
CGA-250-SS1	352
CGA-300-A1	346
CGA-300-B1	355
CGA-300-PP	350
CGA-300-SS1	352
CGA-3020-A	348
CGA-3040-A	348
CGA-3040-A	348
CGA-400-A1	346
CGA-400-B1	355
CGA-400-PP	350
CGA-400-SS1	352
CGA-4030-A	348
CGA-4030-A	348
CGA-500-A1	346
CGA-500-B1	355
CGA-500-SS1	352
CGA-600-A1	346
CGA-600-B1	355
CGA-600-SS1	352
CGA-6040-A	348
CGA-800-A1	346
CGA-800-SS1	352
CGASV-300-A	348
CGASV-400-A	348
CGB-050-A1	346
CGB-050-B1	355
CGB-050-PP	350
CGB-050-SS1	352
CGB-075-A1	346
CGB-075-B1	355
CGB-075-PP	350
CGB-075-SS1	352
CGB-1000-A	346
CGB-100-A1	346
CGB-100-B1	355
CGB-100-PP	350
CGB-100-SS1	352
CGB-125-A1	346
CGB-125-B1	355
CGB-125-PP	350
CGB-125-SS1	352
CGB-150-A1	346
CGB-150-B1	355
CGB-150-PP	350
CGB-150-SS1	352
CGB-200-A1	346
CGB-200-B1	355
CGB-200-PP	350
CGB-200-SS1	352
CGB-250-A1	346
CGB-250-B1	355
CGB-250-SS1	352
CGB-300-A1	346
CGB-300-B1	355
CGB-300-PP	350
CGB-300-SS1	352
CGB-400-A1	346
CGB-400-B1	355
CGB-400-PP	350
CGB-400-SS1	352
CGB-500-A1	346
CGB-500-B1	355
CGB-500-SS1	352
CGB-600-A1	346
CGB-600-B1	355
CGB-600-SS1	352
CGB-800-A1	346
CGB-800-SS1	352
CGBSL-200-A1	398
CGBSL-200-SS1	399
CGBSL-300-A1	398
CGBSL-300-SS1	399
CGBSL-400-A1	398
CGBSL-400-SS1	399
CGBSL-600-A1	398
CGBSL-600-SS1	399
CGC-050-A1	346
CGC-050-B1	355
CGC-050-PP	350
CGC-050-SS1	352
CGC-075-A1	346
CGC-075-B1	355
CGC-075-PP	350
CGC-075-SS1	352
CGC-1000-A	346
CGC-100-A1	346
CGC-100-B1	355
CGC-100CR-SS1	400
CGC-100-PP	350
CGC-100-SS1	352
CGC-125-A1	346
CGC-125-B1	355
CGC-125-PP	350
CGC-125-SS1	352
CGC-150-A1	346
CGC-150-B1	355
CGC-150CR-A1	400
CGC-150CR-SS1	400
CGC-150-PP	350
CGC-150-SS1	352
CGC-1590-A	348
CGC-200-A1	346
CGC-200-B1	355
CGC-200CR-A1	400
CGC-200CR-SS1	400
CGC-200-PP	350
CGC-200-SS1	352
CGC-2015-A	348
CGC-2090-A	348
CGC-250-A1	346
CGC-250-B1	355
CGC-250CR-A1	400
CGC-250-SS1	352
CGC-300-A1	346
CGC-300-B1	355
CGC-300CR-A1	400
CGC-300CR-SS1	400
CGC-300-PP	350
CGC-300-SS1	352
CGC-3020-A	348
CGC-3025-A	348
CGC-400-A1	346
CGC-400-B1	355
CGC-400CR-A1	400
CGC-400CR-SS1	400
CGC-400-PP	350
CGC-400-SS1	352
CGC-4030-A	348
CGC-500-A1	346
CGC-500-B1	355
CGC-500-SS1	352
CGC-600-A1	346
CGC-600-B1	355
CGC-600CR-A1	400
CGC-600-SS1	352
CGC-800-A1	346
CGC-800CS-A1	400
CGC-800-SS1	352
CGCSL-200CR-A1	398
CGCSL-200CR-SS1	399
CGCSL-300CR-A1	398
CGCSL-300CR-SS1	399
CGCSL-400CR-A1	398
CGCSL-400CR-SS1	399
CGCSL-600CR-A1	398
CGCSL-600CR-A4	398
CGCSL-600CR-SS1	399
CGD-050-A1	346
CGD-050-B1	355
CGD-050-PP	350
CGD-050-SS1	352
CGD-075-A1	346
CGD-075-B1	355
CGD-075-PP	350
CGD-075-SS1	352
CGD-1000-A	346
CGD-100-A1	346
CGD-100-B1	355
CGD-100-PP	350
CGD-100-SS1	352
CGD-125-A1	346
CGD-125-B1	355
CGD-125-PP	350
CGD-125-SS1	352
CGD-150-A1	346
CGD-150-B1	355
CGD-150-PP	350
CGD-150-SS1	352
CGD-1510-A	349
CGD-200-A1	346
CGD-200-B1	355
CGD-200-PP	350
CGD-200-SS1	352
CGD-2015-A	349
CGD-2090-SS	354
CGD-250-A1	346
CGD-250-B1	355
CGD-250-SS1	352
CGD-300-A1	346
CGD-300-B1	355
CGD-300-PP	350
CGD-300-SS1	352
CGD-3020-A	349
CGD-400-A1	346
CGD-400-B1	355
CGD-400-PP	350
CGD-400-SS1	352
CGD-4030-A	349
CGD-500-A1	346
CGD-500-B1	355
CGD-500-SS1	352
CGD-600-A1	346
CGD-600-B1	355
CGD-600-SS1	352
CGD-800-A1	346
CGDSL-200-A1	398
CGDSL-200-SS1	399
CGDSL-300-A1	398
CGDSL-300-SS1	399
CGDSL-400-A1	398
CGDSL-400-SS1	399
CGDSL-600-A1	398
CGDSL-600-SS1	399
CGDSV-300-A	349
CGDSV-400-A	349
CGE-050-A1	347
CGE-050-B1	356
CGE-050-PP	351
CGE-050-SS1	353
CGE-075-A1	347
CGE-075-B1	356
CGE-075-PP	351
CGE-075-SS1	353
CGE-1000-A	347
CGE-100-A1	347
CGE-100-B1	356
CGE-100CR-SS1	400

Part#	Page
CGE-100-PP	351
CGE-100-SS1	353
CGE-125-A1	347
CGE-125-B1	356
CGE-125-PP	351
CGE-125-SS1	353
CGE-150-A1	347
CGE-150-B1	356
CGE-150CR-A1	400
CGE-150CR-SS1	400
CGE-150-PP	351
CGE-150-SS1	353
CGE-200-A1	347
CGE-200-B1	356
CGE-200CR-A1	400
CGE-200CR-SS1	400
CGE-200-PP	351
CGE-200-SS1	353
CGE-250-A1	347
CGE-250-B1	356
CGE-250CR-A1	400
CGE-250-SS1	353
CGE-300-A1	347
CGE-300-B1	356
CGE-300CR-A1	400
CGE-300CR-SS1	400
CGE-300-PP	351
CGE-300-SS1	353
CGE-400-A1	347
CGE-400-B1	356
CGE-400CR-A1	400
CGE-400CR-SS1	400
CGE-400-PP	351
CGE-400-SS1	353
CGE-500-A1	347
CGE-500-B1	356
CGE-500-SS1	353
CGE-600-A1	347
CGE-600-B1	356
CGE-600CR-A1	400
CGE-600-SS1	353
CGE-800-A1	347
CGE-800CS-A1	400
CGE-800-SS1	353
CGF-050-A1	347
CGF-050-B1	356
CGF-050-PP	351
CGF-050-SS1	353
CGF-075-A1	347
CGF-075-B1	356
CGF-075-PP	351
CGF-075-SS1	353
CGF-1000-A	347
CGF-100-A1	347
CGF-100-B1	356
CGF-100-PP	351
CGF-100-SS1	353
CGF-125-A1	347
CGF-125-B1	356
CGF-125-PP	351
CGF-125-SS1	353
CGF-150-A1	347
CGF-150-B1	356
CGF-150-PP	351
CGF-150-SS1	353
CGF-1520-A	349
CGF-200-A1	347
CGF-200-B1	356
CGF-200-PP	351
CGF-200-SS1	353
CGF-2030-A	349
CGF-250-A1	347
CGF-250-B1	356
CGF-250-SS1	353
CGF-300-A1	347
CGF-300-B1	356
CGF-300-PP	351
CGF-300-SS1	353
CGF-3015-A	349
CGF-3020-A	349
CGF-3040-A	349
CGF-400-A1	347
CGF-400-B1	356
CGF-400-PP	351
CGF-400-SS1	353
CGF-4030-A	349
CGF-4060-A	349
CGF-500-A1	347
CGF-500-B1	356
CGF-500-SS1	353
CGF-600-A1	347
CGF-600-B1	356
CGF-600-SS1	353
CGF-800-A1	347
CGF-800-SS1	353
CNFL-200CR-S	402
CNFL-200CR-SS316	402
CNFL-300CR-S	402
CNFL-300CR-SS316	402
CNFL-400CR-S	402
CNFL-400CR-SS316	402
CNFL-600CR-S	402
CNFL-600CR-SS316	402
CNG-150-SP	360
CNG-200CR-SP	402
CNG-200CR-SS316	402
CNG-200-S	360
CNG-200-SP	360
CNG-250CR-SS316	402
CNG-250-SP	360
CNG-300CR-SP	402
CNG-300CR-SS316	402
CNG-300-S	360
CNG-300-SP	360
CNG-400CR-SP	402
CNG-400CR-SS316	402
CNG-400CS-S	401
CNG-400CS-SP	401
CNG-400-S	360
CNG-400-SP	360
CNG-500-SP	360
CNG-600CR-SP	402
CNG-600CS-S	401
CNG-600CS-SP	401
CNG-600-S	360
CNG-600-SP	360
CNG-800CS-S	401
CNG-800CS-SP	401
CNL-200CR-SP	401
CNL-250CR-SP	401
CNL-300CR-SP	401
CNL-400CR-SP	401
CNSC-300CR-SP	402
CNSC-400CR-SP	402
CNT-100CR-SP	401
CNT-100CR-SS316	401
CNT-1200-S	359
CNT-1200-SP	359
CNT-125CR-SP	401
CNT-125CR-SS316	401
CNT-150CR-SP	401
CNT-150CR-SS316	401
CNT-200CR-SP	401
CNT-200CR-SS316	401
CNT-250CR-SP	401
CNT-250CR-SS316	401
CNT-300CR-SP	401
CNT-300CR-SS316	401
CNT-400-B	360
CNT-400CR-SP	401
CNT-400CR-SS316	401
CNT-400CS-S	401
CNT-400CS-SP	401
CNT-600CR-SP	401
CNT-600CR-SS316	401
CNT-600CS-S	401
CNT-600CS-SP	401
CNT-600-S	359
CNT-800CS-S	401
CNT-800CS-SP	401
CNTB-200CR-S	402
CNTB-200CR-SS316	402
CNTB-300CR-S	402
CNTB-300CR-SS316	402
CNTB-400CR-S	402
CNTB-400CR-SS316	402
CNTB-600CR-S	402
CNTB-600CR-SS316	402
CPHL-03	432
CPHL-04	432
CPHL-05	432
CPHL-06	432
CPHL-07	432
CPHL-08	432
CPHL-09	432
CPHL-10	432
CPHL-11	432
CPHL-12	432
CPHL-14	432
CPHL-16	432
CPHL-18	432
CPHL-20	432
CPHL-24	432
CPHL-26	432
CPHL-28	432
CPHL-32	432
CPHLS-04	432
CPHLS-05	432
CPHLS-06	432
CPHLS-07	432
CPHLS-08	432
CPHLS-09	432
CPHLS-10	432
CPHLS-11	432
CPHLS-12	432
CPHLS-14	432
CPHLS-16	432
CPHLS-18	432
CPHLS-20	432
CPHLS-24	432
CPHLS-28	432
CPHLS-32	432
CRPVC-019	374
CRPVC-025	374
CRPVC-025-100	374
CRPVC-031	374
CRPVC-031-100	374
CRPVC-038	374
CRPVC-038-100	374
CRPVC-050	374
CRPVC-050-100	374
CRPVC-063	374
CRPVC-063-100	374
CRPVC-075	374
CRPVC-075-100	374
CRPVC-100	374
CRPVC-100-100	374
CRPVC-125	374
CRPVC-150	374
CRPVC-200	374
CSL-05100S-SP	410
CSL-05100S-SS304	414
CSL-08102S-SP	410
CSL-08104-SS304	414
CSL-08104S-SS304	414
CSL-08105S-SP	410
CSL-08106-SP	410
CSL-100108-SP	414
CSL-100114-SP	414
CSL-10107-SP	410
CSL-10107S-SP	410
CSL-10108-SP	410
CSL-10108-SS304	414
CSL-10108S-SP	410
CSL-10109-SP	410
CSL-10109S-SP	410
CSL-10109S-SS304	414
CSL-10110-SP	410
CSL-10110-SS304	414
CSL-10110S-SS304	414
CSL-10111-SP	410
CSL-10111S-SP	410
CSL-10112-SP	410
CSL-10112-SS304	414
CSL-13113S-SP	410
CSL-13113S-SS304	415
CSL-13114-SS304	415
CSL-13114S-SP	410
CSL-15112-SP	411
CSL-15115-SP	411
CSL-15200-SP	411
CSL-15201-SP	411
CSL-15201-SS304	415
CSL-15202-SP	411
CSL-15202S-SP	411
CSL-15203-SP	411
CSL-15204-SP	411
CSL-15205-SP	411
CSL-15206-SP	411
CSL-20204-SP	411
CSL-20206-SP	411
CSL-20206-SS304	415
CSL-20206S-SP	411
CSL-20207-SP	411
CSL-20207-SS304	415
CSL-20207S-SP	411
CSL-20208-SP	411
CSL-20208-SS304	415
CSL-20209-A	409
CSL-20209-SP	411
CSL-20209-SS304	415
CSL-20209S-SP	411
CSL-20210-A	409
CSL-20210-SP	411
CSL-20210-SS304	415
CSL-20210S-SP	411
CSL-20211-A	409
CSL-20211-SP	411
CSL-20211-SS304	415
CSL-20211S-SP	411
CSL-20212-SP	411
CSL-20212-SS304	415
CSL-20213-SP	411
CSL-20214-SP	411
CSL-20214-SS304	415
CSL-20215-SP	411
CSL-20300-SP	411
CSL-25302-SP	412
CSL-25306-SP	412
CSL-30304-SP	412
CSL-30306-SP	412
CSL-30306S-SP	412
CSL-30307-SP	412
CSL-30308-SP	412
CSL-30308S-SP	412
CSL-30309-SP	412
CSL-30309-SS304	415
CSL-30309S-SP	412
CSL-30310-A	409
CSL-30310-SP	412
CSL-30310-SS304	415
CSL-30310S-SP	412
CSL-30311-SP	412
CSL-30311-SS304	415
CSL-30311S-SP	412
CSL-30312-SP	412
CSL-30312-SS304	415
CSL-30312S-SP	412
CSL-30313-A	409
CSL-30313-SP	412
CSL-30313-SS304	415
CSL-30313S-SP	412
CSL-30314-A	409
CSL-30314-SP	412
CSL-30314-SS304	415
CSL-30314S-SP	412
CSL-30315-A	409
CSL-30400-SP	412
CSL-40406-SP	413
CSL-40408-SP	413
CSL-40409-SP	413
CSL-40410-SP	413
CSL-40410S-SP	413
CSL-40411-A	409
CSL-40411-SP	413
CSL-40411S-SP	413
CSL-40412-A	409
CSL-40412-SP	413
CSL-40412S-SP	413
CSL-40413-A	409
CSL-40413-SP	413
CSL-40413S-SP	413
CSL-40414-A	409
CSL-40414-SP	413
CSL-40414S-SP	413
CSL-40415-SP	413
CSL-40500-SP	413
CSL-40500S-SP	413
CSL-60604-SP	413
CSL-60606-SP	413
CSL-60608-SP	413
CSL-60610-SP	413
CSL-60612-SP	413
CSL-60614-SP	413
CSL-60700-SP	413
CSL-60702-SP	413
CSL-60704-SP	413
CSL-80812-SP	413
CSL-80900-SP	413
CSL-80904-SP	413
CSL-80908-SP	413
DA-1510-A	349
DA-1520-A	349
DA-2015-A	349
DA-2030-A	349
DA-2030-SS	354
DA-2040-A	349
DA-3015-A	349
DA-3020-A	349
DA-3020-SS	354
DA-3040-A	349
DA-3040-SS	354
DA-4020-A	349
DA-4030-A	349
DA-4030-SS	354
DA-4060-A	349
DA-6040-A	349
DA-6040-SS	354
DBC-1125-DP	427
DBC-1275-DP	427
DBC-1360-DP	427
DBC-400-DP	427
DBC-40-DP	427
DBC-431-DP	427
DBC-463-DP	427

NUMERICAL INDEX

Part#	Page
DBC-525-DP	427
DBC-550-DP	427
DBC-600-DP	427
DBC-60-DP	427
DBC-639-DP	427
DBC-675-DP	427
DBC-769-DP	427
DBC-76-DP	427
DBC-818-DP	427
DBC-875-DP	427
DBC-94-DP	427
DBC-988-DP	427
DD-1515-A	349
DD-1515-SS	354
DD-2020-A	349
DD-2020-SS	354
DD-2030-A	349
DD-2030-SS	354
DD-3030-A	349
DD-3030-SS	354
DD-3040-A	349
DD-3040-SS	354
DD-4040-A	349
DD-4040-SS	354
DURFL-200	391
DURFL-200-CASSP	391
DURFL-300	391
DURFL-300-CASSP	391
DURFL-400	391
DURFL-400-CASSP	391
DURFL-600	391
DURFL-600-CASSP	391
DX140030MG	445
DX140040MG	445
DX140050MG	445
DX140060MG	445
DX140070MG	445
DX141530MG	445
DX141540MG	445
DX141550MG	445
DX141560MG	445
DX141570MG	445
DX142530MG	445
DX142540MG	445
DX142550MG	445
DX142560MG	445
DX142570MG	445
DX144030MG	445
DX144040MG	445
DX144050MG	445
DX144060MG	445
DX144070MG	445
DX250030	445
DX250040	445
DX250050	445
DX250060	445
DX251530	445
DX251540	445
DX251550	445
DX251560	445
DX252530	445
DX252540	445
DX252550	445
DX252560	445
DX254030	445
DX254040	445
DX254050	445
DX254060	445
DX256500	445
DX259520	445
DX259530	445
DX259540	445
DX259550	445
DX259560	445
DX259570	445
DX35TR25	446
DX35TR38	446
DX4324	447
DX4336	447
DX4424	447
DX4436	447
DX4524VG	447
DX4536VG	447
DX5005	447
DX5006	447
DX5022	447
DX5090	447
DX5190	447
DX5197	447
DX60021	446
DX60021V	446
DX60022	446
DX60022V	446
DX60023	446
DX60023V	446
DX60092	446
DX722530	446
DX722540	446
DX722550	446
DX722560	446
DX723230	446
DX723240	446
DX723250	446
DX723260	446
DX724030	446
DX724040	446
DX724050	446
DX724060	446
DX725030	446
DX725040	446
DX725050	446
DX725060	446
EPDM-150	380
EPDM-200	380
EPDM-300	380
EPDM-400	380
F100	433
F38	433
F40	433
FE-025-SP	362
FE-125-SP	362
FE-150-SP	362
FE-200-SP	362
FF1234F	532
FF1234M	532
FF12F	532
FF12M	532
FF14F	532
FF14M	532
FF1M	532
FF3416F	532
FF3416M	532
FF34F	532
FF34M	532
FF3812F	532
FF3812M	532
FF38F	532
FF38M	532
FHE-075-MP	400
FLDROP-200	387
FLDROP-400	387
FLX-075	381
FLX-100	381
FLX-150	381
FLX-200	381
FLX-300	381
FLX-400	381
FLXS-100	381
FLXS-200	381
FLXS-300	381
FLXS-400	381
FN-075	365
FN-075G	365
FN-075R	365
FN-100	365
FN-150	365
FN-200	365
FRAC400-300	385
FRAC400-400	385
FRAC400-600	385
FS25001010	525
FS25001212	525
FS25001616	525
FS250044	525
FS250066	525
FS25011012	525
FS2501108	525
FS25011212	525
FS25011216	525
FS2501128	525
FS25011616	525
FS25012020	525
FS25012424	525
FS250144	525
FS250164	525
FS250166	525
FS2501812	525
FS250186	525
FS250188	525
FS25031212	525
FS25031616	525
FS250344	525
FS250366	525
FS250388	525
FS26031212	525
FS260344	525
FS260366	525
FS260388	525
FS6400O1010	526
FS6400O1012	526
FS6400O108	526
FS6400O1210	526
FS6400O1212	526
FS6400O1216	526
FS6400O128	526
FS6400O1612	526
FS6400O1616	526
FS6400O1620	526
FS6400O2020	526
FS6400O2024	526
FS6400O2424	526
FS6400O44	526
FS6400O46	526
FS6400O64	526
FS6400O66	526
FS6400O68	526
FS6400O810	526
FS6400O86	526
FS6400O88	526
FS64021010	525
FS64021212	525
FS640244	525
FS640266	525
FS640288	525
FS65001212	526
FS650044	526
FS650066	526
FS650088	526
FS65041010	526
FS65041616	526
FS650444	526
FS650466	526
FS650488	526
FS68011012	526
FS6801108	526
FS68011210	526
FS68011212	526
FS68011216	526
FS68011616	526
FS68011620	526
FS68012016	526
FS68012020	526
FS68012424	526
FS680144	526
FS680146	526
FS680164	526
FS680166	526
FS680168	526
FS6801810	526
FS680186	526
FS680188	526
FS68021010	526
FS68021212	526
FS68021616	526
FS68022020	526
FS680244	526
FS680266	526
FS680288	526
FS68091212	527
FS680944	527
FS680966	527
FS680988	527
FSO24031212	524
FSO24031616	524
FSO240344	524
FSO240366	524
FSO240388	524
FSO2404108	524
FSO24041212	524
FSO24041616	524
FSO24042020	524
FSO24042424	524
FSO240444	524
FSO240446	524
FSO240464	524
FSO240466	524
FSO240484	524
FSO240486	524
FSO240488	524
FSO2406106	524
FSO2406108	524
FSO2406126	524
FSO240664	524
FSO240684	524
FSO240810	525
FSO240812	525
FSO240816	525
FSO240820	525
FSO240824	525
FSO24084	525
FSO24086	525
FSO24088	525
FSO304C10	524
FSO304C12	524
FSO304C16	524
FSO304C20	524
FSO304C24	524
FSO304C4	524
FSO304C6	524
FSO304C8	524
FSO30612	524
FSO30616	524
FSO3064	524
FSO3066	524
FSO3068	524
FSO31810	523
FSO31812	523
FSO31816	523
FSO31820	523
FSO31824	523
FSO3184	523
FSO3186	523
FSO3188	523
FSO31910	524
FSO31912	524
FSO31916	524
FSO31920	524
FSO3194	524
FSO3196	524
FSO3198	524
FUEL-025	378
FUEL-031	378
FUEL-038	378
FV-200-DP	365
FV-300-DP	365
FV-400-DP	365
FV-600-DP	365
GB220TSAE+	222
GB224TSAE+	222
GB3L20TSAE+	222
GB3L24TSAE+	222
GDS-050-B	363
GDS-075-B	363
GE204SAE	222
GE206SAE	222
GE208SAE	222
GE2112TNPT	222
GE2114TNPT	222
GE212NPT	222
GE212SAE	222
GE214NPT	222
GE216SAE	222
GE21NPT	222
GE234NPT	222
GE238NPT	222
GE3L04SAE	222
GE3L06SAE	222
GE3L08SAE	222
GE3L112TNPT	222
GE3L114TNPT	222
GE3L12NPT	222
GE3L12SAE	222
GE3L14NPT	222
GE3L16SAE	222
GE3L1NPT	222
GE3L34NPT	222
GE3L38NPT	222
GJF-050-SP	363
GJF-075-DP	363
GJF-100-DP	363
GJF-125-DP	363
GJF-150-DP	363
GJF-200-DP	363
GJF-300-DP	363
GJM-050CR-SP	400
GJM-050-SP	364
GJM-075CR-SP	400
GJM-075-SP	364
GJM-100CR-SP	400
GJM-100-SP	364
GJM-125CR-SP	400
GJM-125-DP	364
GJM-150CR-SP	400
GJM-150-DP	364
GJM-200CR-SP	400
GJM-200-DP	364
GJM-250CR-SP	400
GJM-300CR-SP	400
GJM-400CR-SP	400
GJN-050-DP	363
GJN-075-DP	363
GJN-125-DP	363
GJN-150-DP	363
GJN-200-DP	363
GJN-300-DP	363
GJS-050CR-SP	400
GJS-050-SP	363
GJS-075CR-SP	400
GJS-075-DP	363
GJS-100CR-SP	400
GJS-100-DP	363
GJS-125CR-SP	400
GJS-125-DP	363
GJS-150CR-SP	400
GJS-150-DP	363
GJS-200CR-SP	400
GJS-200-DP	363
GJS-250CR-SP	400
GJS-300CR-SP	400
GJS-400CR-SP	400
GPE-025-300	376
GPE-038-300	376

Part#	Page
GPE-050-300	376
GPE-063-300	376
GPE-075-300	376
GPE-100-300	376
GT15	471
GT30	471
GT60	471
HAM100-1000-SET	322
HAM100-200-SET	322
HAM100-300-SET	322
HAM100-400CR-SET	322
HAM100-400-SET	322
HAM100-600CR-SET	322
HAM100-600-SET	322
HAM100-800-SET	322
HAM200-100-SET	322
HAM200-200-SET	322
HAM200-300-SET	322
HAM200-400-SET	322
HAM200-500-SET	322
HAM206-200-SET	322
HAM206-300-SET	322
HAM206-400CR-SET	322
HAM206-400-SET	322
HAM206-500-SET	322
HAM206-600-SET	322
HAM206-800-SET	322
HE-050CF-SP	400
HE-075CF-SP	400
HE-075CR-SP	400
HE-100CF-SP	400
HE-100CR-SP	400
HE-101CF-SP	400
HE-125-SP	362
HE-150-SP	362
HE-200-SP	362
HM-063-S	361
HM-063-SP	361
HM-300-S	361
HM-400-S	361
HM-600-S	361
HM-600-SP	361
HM-800-S	361
HM-800-SP	361
HN-075-B	366
HN-100-B	366
HN-125-B	366
HN-150-B	366
HN-200-B	366
HN-250-B	366
HNC-04-02-SP	364
HNC-04-04-SP	364
HNC-06-04-SP	364
HNC-06-06-SP	364
HNC-08-06-SP	364
HNC-08-08-SP	364
HNC-12-08-SP	364
HNC-16-12-SP	364
HNV12F	531
HNV12FB	531
HNV12M	531
HNV12MB	531
HNV14F	531
HNV14FB	531
HNV14M	531
HNV14MB	531
HNV34F	531
HNV34FB	531
HNV34M	531
HNV34MB	531
HNV38F	531
HNV38FB	531
HNV38M	531
HNV38MB	531
HPCWB-150	392
HPCWB-200	392
HPCWB200-150	392
HPCWB200-400	392
HPCWB250-200	392
HPCWB250-300	392
HPCWB-300	392
HPCWB-400	392
HPCWB-600	392
HSK2-200-SS	357
HSK2-300-SS	357
HSK5-200-SS	357
HSK5-200-SS	357
HSK5-300-SS	357
HSK5-300-SS	357
HTA-300	386
HTA-400	386
IVB-800-250RPG2	379
IVB-800-250RPG3	379
IVB-800-250RPG7	379
JACK-075-50	375
JACK-075BL-50	375
JACK-075-CU-ASSP	375
JACK-075G-50	375
JACK-075R-50	375
KZEB14PF	533
KZEB14SM	533
KZEB38PF	533
KZEB38SM	533
LSQVEP12PF	532
LSQVEP12SF	532
LSQVEP1PF	532
LSQVEP1SF	532
LSQVEP20PF	532
LSQVEP20SF	532
LSQVEP24PF	532
LSQVEP24SF	532
LSQVEP34PF	532
LSQVEP34SF	532
M10-131	424
M10-140	424
M10-149	424
M10-162	424
M10-175	424
M10-188	424
M10-201	424
M10-214	424
M10-227	424
M10-240	424
M10DC-104	428
M10DC-113	428
M10DC-122	428
M10DC-131	428
M10DC-140	428
M10DC-149	428
M10DC-162	428
M10DC-175	428
M10DC-188	428
M10DC-200	428
M10DC-220	428
M10DC-240	428
M10DC-260	428
M10DC-280	428
M10DC-300	428
M10DC-325	428
M10DC-350	428
M10DC-375	428
M10DC-400	428
M10DC-425	428
M10DC-450	428
M10DC-86	428
M10DC-92	428
M6-23	423
M6-26	423
M6-29	423
M6-32	423
M6-36	423
M6-40	423
M6S-23	423
M6S-26	423
M6S-29	423
M6S-32	423
M6S-36	423
M6S-40	423
M8-104	424
M8-113	424
M8-122	424
M8-44	424
M8-48	424
M8-52	424
M8-56	424
M8-60	424
M8-64	424
M8-68	424
M8-74	424
M8-80	424
M8-86	424
M8-92	424
M8-98	424
M8S-104	424
M8S-113	424
M8S-122	424
M8S-131	424
M8S-140	424
M8S-149	424
M8S-162	424
M8S-44	424
M8S-48	424
M8S-52	424
M8S-56	424
M8S-60	424
M8S-64	424
M8S-68	424
M8S-74	424
M8S-80	424
M8S-86	424
M8S-92	424
M8S-98	424
MB4004	535
MB4006	535
MB4008	535
MB4012	535
MB4016	535
ME-025-SP	362
MFC12N	535
MFC34N	535
MFC38N	535
MKL-019-SP	423
MKL-022-SP	423
MKL-025-SP	423
MKL-028-SP	423
MKL-031-SP	423
MKL-035-SP	423
MKL-039-SP	423
MKL-043-SP	423
MKL-047-SP	423
MKL-051-SP	423
MKL-055-SP	423
MKL-059-SP	423
MKL-063-SP	423
MKL-067-SP	423
MKL-073-SP	423
MKL-079-SP	423
MKL-085-SP	423
MKL-091-SP	423
MKL-097-SP	423
MKL-103-SP	423
MKL-112-SP	423
MKL-121-SP	423
MKL-130-SP	423
MKL-139-SP	423
MKL-148-SP	423
MKL-161-SP	423
MKL-174-SP	423
MKL-187-SP	423
MKL-200-SP	423
MKL-213-SP	423
MKL-226-SP	423
MKL-239-SP	423
MMFC12NPT	534
MMFC16NPT	534
MMFC20NPT	534
MMFC4NPT	534
MMFC6NPT	534
MMFC8NPT	534
MMNV12NPT	534
MMNV16NPT	534
MMNV4NPT	534
MMNV6NPT	534
MMNV8NPT	534
MXH-238	377
MXH-250	377
MXH-300	377
MXH-350	377
MXH-400	377
MXH-500	377
NV12F	533
NV12M	533
NV14F	533
NV14M	533
NV1F	533
NV1M	533
NV34F	533
NV34M	533
NV38F	533
NV38M	533
OETP-1098	433
OILVC-200	384
OILVC-300	384
OILVC-400	384
OILVS-150	383
OILVS-200	383
OILVS-300	383
OILVS-400	383
OILVS-600	383
P1	433
P-300	433
PDB250-200	386
PDB250-300	386
PDB250-400	386
PDB250-600	386
PDR-125	385
PDR-150	385
PDR-300	385
PDR-400	385
PDR-600	385
PF-150-AD	364
PF-200-AD	364
PF-300-AD	364
PF-400-AD	364
PF-600-AD	364
PL-150-AD	364
PL-200-AD	364
PL-300-AD	364
PL-400-AD	364
PM-150-A	364
PM-200-A	364
PM-300-A	364
PON-025-B	377
PON-038-B	377
PON-050-B	377
PON-063-B	377
PON-075-B	377
PREM-125-250	376
PREMR-038-300	376
PREMR-050-300	376
PREMR-075-300	376
PREMR-100-300	376
R88DB-12-DP	427
R88DB-16-DP	427
R88DB-20-DP	427
R88DB-24-DP	427
R88DB-32-DP	427
RSPVC -200	396
RSPVC-300	396
RSPVC-400	396
RSPVC-600	396
SA-100-A	348
SA-100-SS	354
SA-150-A	348
SA-150-SS	354
SA-1520-SS	354
SA-200-A	348
SA-200-SS	354
SA-2030-A	348
SA-2030-SS	354
SA-250-A	348
SA-300-A	348
SA-300-SS	354
SA-3040-A	348
SA-3040-SS	354
SA-400-A	348
SA-400-SS	354
SAE# 060101BA	77
SAE# 060110	77
SAE# 060115	77
SAT-200	394
SAT-300	394
SAT-400	394
SAT-600	394
SATG-075	393
SATG-100	393
SATG-125	393
SATG-150	393
SATG-200	393
SATG-250	393
SATG-300	393
SATG-400	393
SATO-200	393
SATO-300	393
SATO-400	393
SATW-100	394
SATW-125	394
SATW-150	394
SATW-200	394
SATW-300	394
SATW-400	394
SATW-600	394
SB-200-SP	365
SB-300-SP	365
SBB-075-100	380
SBB-075-50	380
SBB-125-100S	380
SBB-125-50S	380
SBB-150-50	380
SBB-300	380
SC-1000R-SP	428
SC-1200R-SP	428
SC-200R-SP	428
SC-250R-SP	428
SC-300R-SP	428
SC-400R-SP	428
SC-500R-SP	428
SC-600R-SP	428
SC-800R-SP	428

NUMERICAL INDEX

Part#	Page
SCR-300-SS304	365
SCR-400-SS304	365
SG300	358
SG400	358
SL-200-SP	365
SL-300-SP	365
SR-200-SP	365
SR-250-SP	365
SR-300-SP	365
SR-400-SP	365
SR-600-SP	365
SR-800-SP	365
SS1404-04-04	543
SS1404-06-06	543
SS1404-08-08	543
SS1404-12-12	543
SS1404-16-16	543
SS1405-04-04	543
SS1405-06-06	543
SS1405-08-08	543
SS1405-12-12	543
SS1405-16-16	543
SS2403-04-04	545
SS2403-06-04	545
SS2403-06-06	545
SS2403-08-04	545
SS2403-08-06	545
SS2403-08-08	545
SS2403-10-08	545
SS2403-10-10	545
SS2403-12-04	545
SS2403-12-06	545
SS2403-12-08	545
SS2403-12-12	545
SS2403-16-12	545
SS2403-16-16	545
SS2404-04-02	545
SS2404-04-04	545
SS2404-04-06	545
SS2404-04-08	545
SS2404-06-04	545
SS2404-06-06	545
SS2404-06-08	545
SS2404-08-04	545
SS2404-08-06	545
SS2404-08-08	545
SS2404-08-12	545
SS2404-08-16	545
SS2404-10-08	545
SS2404-12-08	545
SS2404-12-12	545
SS2404-12-16	545
SS2404-16-08	545
SS2404-16-12	545
SS2404-16-16	545
SS2405-04-04	546
SS2405-06-04	546
SS2405-06-06	546
SS2405-08-08	546
SS2405-12-12	546
SS2405-16-16	546
SS2406-06-04	546
SS2406-08-04	546
SS2406-08-06	546
SS2406-10-08	546
SS2406-12-04	546
SS2406-12-06	546
SS2406-12-08	546
SS2406-16-04	546
SS2406-16-06	546
SS2406-16-08	546
SS2406-16-12	546
SS2408-04	546
SS2408-06	546
SS2408-08	546
SS2408-10	546
SS2408-12	546
SS2408-16	546
SS2700-04-04	547
SS2700-06-06	547
SS2700-08-08	547
SS2700-12-12	547
SS2700-16-16	547
SS2705-04-04	547
SS2705-06-06	547
SS2705-08-08	547
SS2705-12-12	547
SS2705-16-16	547
SS2707-04-04	547
SS2707-06-06	547
SS2707-08-08	547
SS304-C-04	544
SS304-C-06	544
SS304-C-08	544
SS304-C-10	544
SS304-C-12	544
SS304-C-16	544
SS306-04	547
SS306-06	547
SS306-08	547
SS306-10	547
SS306-12	547
SS306-16	547
SS318-04	544
SS318-04	544
SS318-06	544
SS318-08	544
SS318-10	544
SS318-12	544
SS318-16	544
SS319-06	544
SS319-08	544
SS319-10	544
SS319-12	544
SS319-16	544
SS43-04-04FJ	555
SS43-04-04FJ90	555
SS43-04-04MP	555
SS43-04-06FJ	555
SS43-04-06FJ90	555
SS43-04-06MP	555
SS43-06-04FJ	555
SS43-06-04MP	555
SS43-06-06FJ	555
SS43-06-06FJ90	555
SS43-06-06MP	555
SS43-06-08FJ	555
SS43-08-08FJ	555
SS43-08-08MP	555
SS43-08-10FJ	555
SS43-10-08MP	555
SS43-12-12FJ90	555
SS43-12-12MP	555
SS43-16-16FJ90	555
SS43-16-16MP	555
SS5000-02-02	548
SS5000-04-04	548
SS5000-06-04	548
SS5000-06-06	548
SS5000-08-06	548
SS5000-08-08	548
SS5000-12-12	548
SS5000-16-08	548
SS5000-16-12	548
SS5000-16-16	548
SS5404-02-02	548
SS5404-04-02	548
SS5404-04-04	548
SS5404-06-04	548
SS5404-06-06	548
SS5404-08-04	548
SS5404-08-06	548
SS5404-08-08	548
SS5404-12-04	548
SS5404-12-06	548
SS5404-12-08	548
SS5404-12-12	548
SS5404-16-08	548
SS5404-16-12	548
SS5404-16-16	548
SS5405-02-02	549
SS5405-02-04	549
SS5405-04-04	549
SS5405-04-06	549
SS5405-04-08	549
SS5405-06-06	549
SS5405-06-08	549
SS5405-06-12	549
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SS5600-12-12-12	551
SS5600-16-16-16	551
SS5605-02-02-02	551
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SS5605-08-08-08	551
SS5605-12-12-12	551
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SS6400-04-04	552
SS6400-04-06	552
SS6400-06-06	552
SS6400-06-08	552
SS6400-06-10	552
SS6400-08-06	552
SS6400-08-08	552
SS6400-08-10	552
SS6400-08-12	552
SS6400-12-08	552
SS6400-12-12	552
SS6400-12-16	552
SS6400-16-12	552
SS6400-16-16	552
SS6402-04-04	552
SS6402-06-06	552
SS6402-08-08	552
SS6402-12-12	552
SS6402-16-16	552
SS6405-04-04	552
SS6405-06-04	552
SS6405-06-06	552
SS6405-08-08	552
SS6405-12-08	552
SS6405-12-12	552
SS6405-16-16	552
SS6408-04	553
SS6408-06	553
SS6408-08	553
SS6408-10	553
SS6408-12	553
SS6408-16	553
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SS6408-HH-08	553
SS6408-HH-10	553
SS6408-HH-12	553
SS6408-HH-16	553
SS6505-04-04	554
SS6505-06-06	554
SS6505-08-08	554
SS6505-12-12	554
SS6505-16-16	554
SS6506-04-04	554
SS6506-06-06	554
SS6506-08-08	554
SS6506-12-12	554
SS6506-16-16	554
SSBOPF-C	555
SSBW-16-16API-C	555
SSCN-04	548
SSCN-06	548
SSCN-08	548
SSCN-12	548
SSCN-16	548
ST250-075-100	388
ST250-075-50	388
ST250-100-100	388
ST250-100-50	388
ST250-200-100	388
ST250-200-50	388
ST250-300	388
ST250B-075-50	387
ST250B-100-50	387
ST250B-150-50	387
ST250B-200-50	387
SUPER-200	395
TLB-075	383
TLB-100	383
TLB-125	383
TLB-150	383
TLB-200	383
TLB-250	383
TLB-400	383
TLB-600	383
TLBS150-100	382
TLBS150-150	382
TLBS150-200	382
TLBS150-300	382
TLBS150-400	382
TLBS150-600	382
TLBS300-200	384
TLBS300-300	384
TLBS300-400	384
TLBS300-600	384
TPT-1	433
TTD150-200	382
TTD150-300	382
TTD150-400	382
VG100	358
VG150	358
VG200	358
VG250	358
VG300	358
WHIP-L	365
WHIP-S	365
WSB-125	395
WSB-150	395
WSB-200	395
WSB-300	395
WSB-400	395
WSB-600	395