



FEATURING NEW & EXPANDED PRODUCT LINES

HYDRAULIC ADAPTERS & ACCESSORIES



*Steel Adapters, JIC Flare,
O-Ring Adapters, Metric,
Hydraulic Quick Disconnects,
Hydraulic Valves, & More*



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FEATURING NEW & EXPANDED PRODUCT LINES

HYDRAULIC ADAPTERS & ACCESSORIES

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TECHNICAL INFORMATION PROFILE SIZE CHART

STEEL ADAPTERS

- Steel Pipe Swivels
- 37° JIC Flare Straights
- 37° JIC Flare Shapes
- Bulkhead Adapters
- Steel Pipe Fittings
- O-Ring Adapters Straight
- JIC Swivels
- O-Ring Adapters
- O-Ring Face Seal
- BSPT/ BSPP Adapters
- Metric Adapters
- Flange Adapters
- Stainless Steel Adapters
- SS Hose Fittings

HYDRAULIC QUICK DISCONNECTS

- Thread to Connect - Wing
- ISO A Interchange
- ISO B Interchange
- Flush Face ISO
- VEP Series
- AG Interchange
- Hydraulic Jack Q/D

HYDRAULIC VALVES & ACCESSORIES

- Flow Control Valve
- Variable Flow Control
- Air Breathers

PLATING SPECIFICATION

We 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.

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 recommends 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 resistance 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.

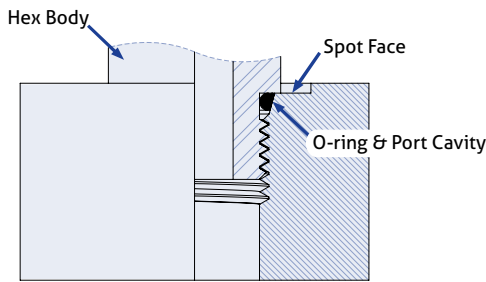

WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SAE O-RING BOSS PORT SPECIFICATIONS

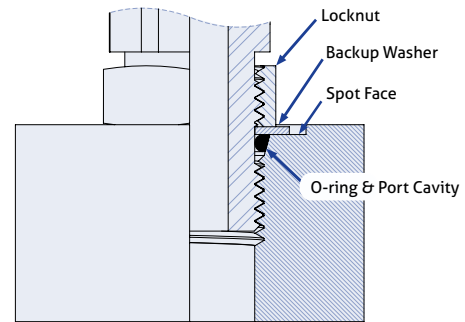
O-ring Boss ports (ORB) provide a seal by trapping the fitting's O-ring inside a port cavity. When a fitting is installed into the port, the O-ring is trapped between the fitting body hex or washer and port cavity.

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



ADJUSTABLE SAE ORB

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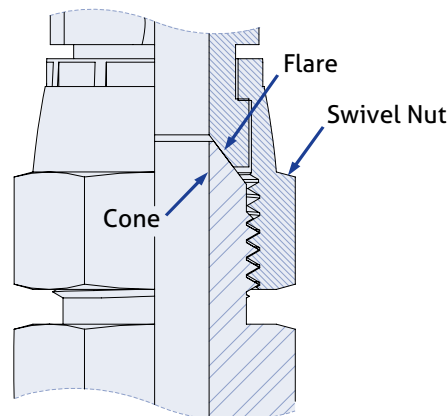
SAE O-RING BOSS SPECIFICATIONS								
DASH SIZE	TUBE SIZE	THREAD	SAE-ORB TO JIC AND PIPE FITTINGS*			SAE-ORB TO ORFS FITTINGS**		
			TORQUE	WORKING PRESSURE		TORQUE	WORKING PRESSURE	
			ADJUSTABLE & NON-ADJUSTABLE	ADJUSTABLE	NON-ADJUSTABLE	ADJUSTABLE & NON-ADJUSTABLE	ADJUSTABLE	NON-ADJUSTABLE
			(FT-LBS) +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	9100
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

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.



FLARE FITTING ASSEMBLY

JIC SPECIFICATIONS							
DASH SIZE	TUBE SIZE	THREAD	WORKING PRESSURE		TORQUE		
			MALE	FEMALE	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

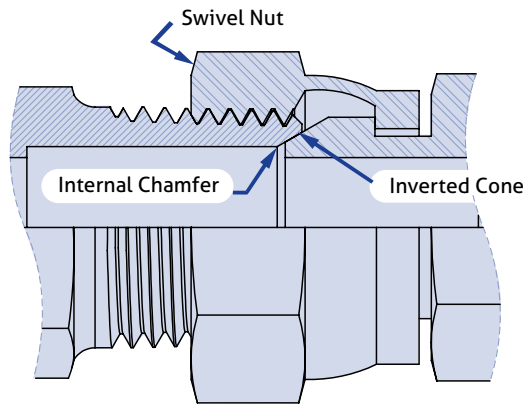
Values are per SAE J514

⚠️ **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

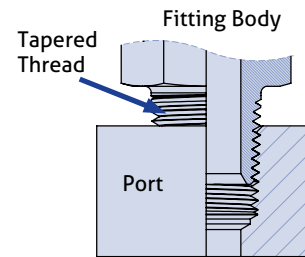
PIPE & PIPE SWIVEL ADAPTER SPECIFICATIONS

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.



NPTF & NPSM UNION



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.

NPT, NPTF, AND NPSM PIPE SPECIFICATIONS						
DASH SIZE	THREAD SIZE	MAJOR OD (INCH)	WORKING PRESSURE		TORQUE	
			NPT, NPTF MALE & 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	.840	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

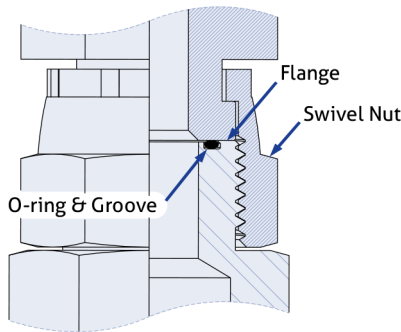
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O-RING FACE SEAL ADAPTER SPECIFICATIONS

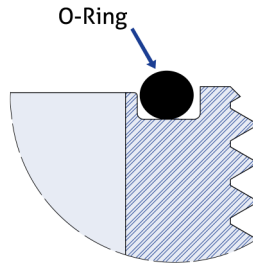
O-ring face seal fittings include a precision groove in the face of the male fitting. Sealing occurs when an O-ring is trapped in the groove by a smooth flat flange that is clamped against the face with a nut or nut and sleeve. The flat flange may be formed or brazed onto the end of a tube, or is machined on a fitting.

There are two SAE groove types:

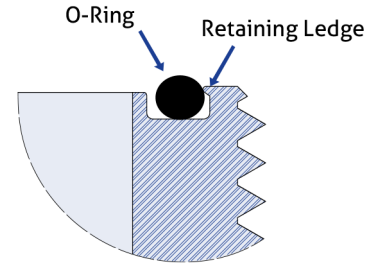
- **Type A:** The original style A O-ring has no retaining ledge.
- **Type B:** The Type B groove has a retaining ledge (half-dovetail) that improves O-ring retention. The Type B style is more commonly found and is a design improvement over the Type A.



ORFS FITTING ASSEMBLY



DETAIL VIEW OF CROSS SECTION OF GROOVE TYPE A



VIEW OF GROOVE TYPE B

SAE O-RING BOSS 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%	(FFWR)	(FFWR)
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	90	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.

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HYDRAULICS

BSPT, BSPP, & 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.

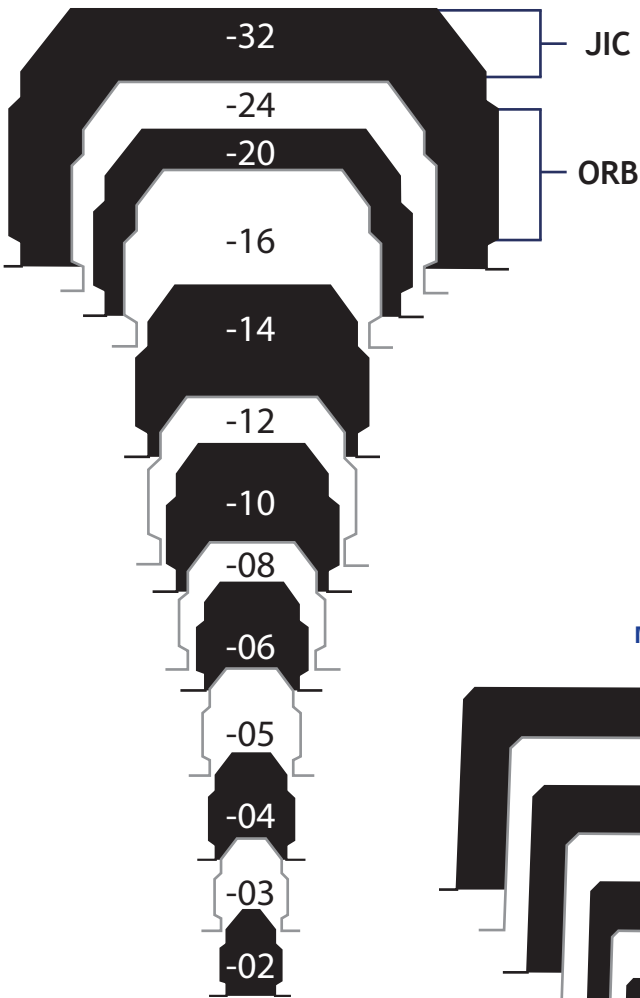
Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

BSPP & BSPT ADAPTER SPECIFICATIONS				
DASH SIZE	BSPT & BSPP		TORQUE	
	THREAD SIZE	MAJOR OD	BSPP SWIVEL UNION	BSPT
		(INCH)	(FFWR)	(TFFT)
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

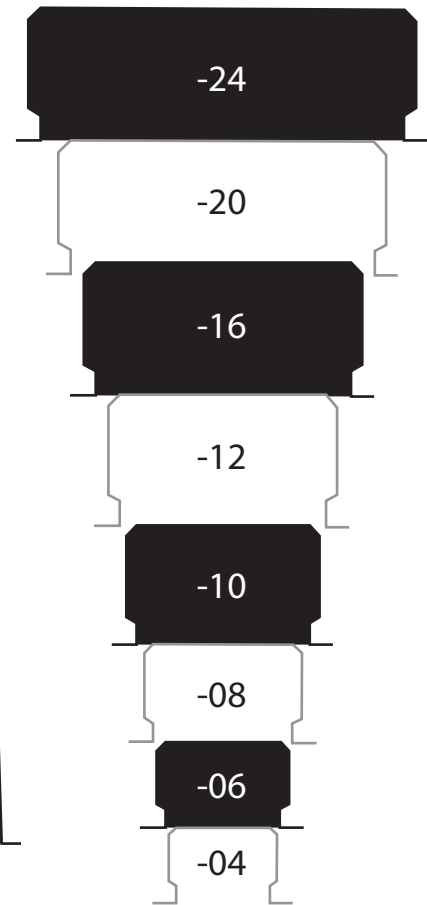
METRIC ADAPTER SPECIFICATIONS	
DASH SIZE	THREAD SIZE
	(MM)
08	8 x 1.0
10	10 x 1.0
12	12 x 1.5
14	14 x 1.5
16	16 x 1.5
18	18 x 1.5
20	20 x 1.5
22	22 x 1.5
24	24 x 1.5
26	26 x 1.5
27	27 x 2.0
30	30 x 2.0
33	33 x 2.0
39	39 x 2.0
42	42 x 2.0
48	48 x 2.0
60	60 x 2.0

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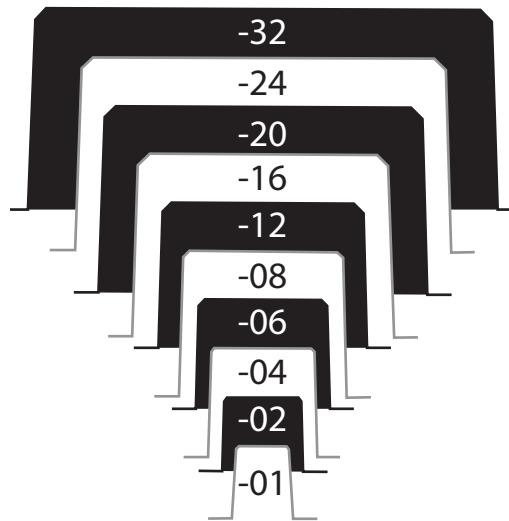
MALE JIC / MALE O-RING BOSS



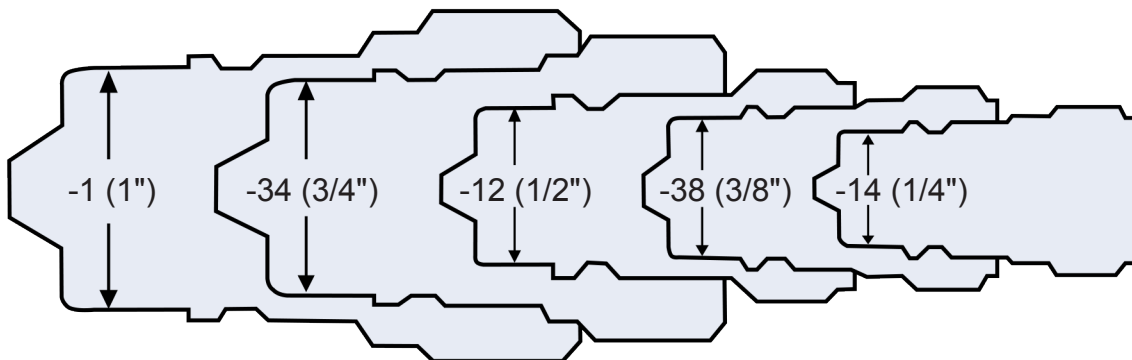
O-RING FACE SEAL



MALE PIPE

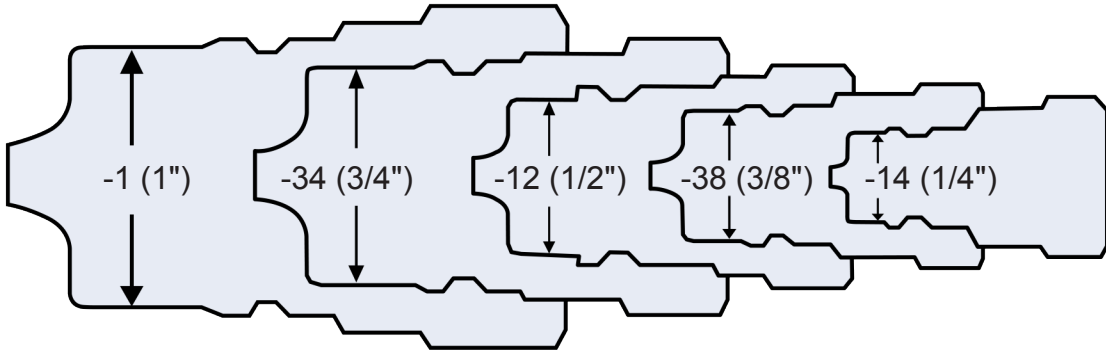


AG INTERCHANGE - NV SERIES

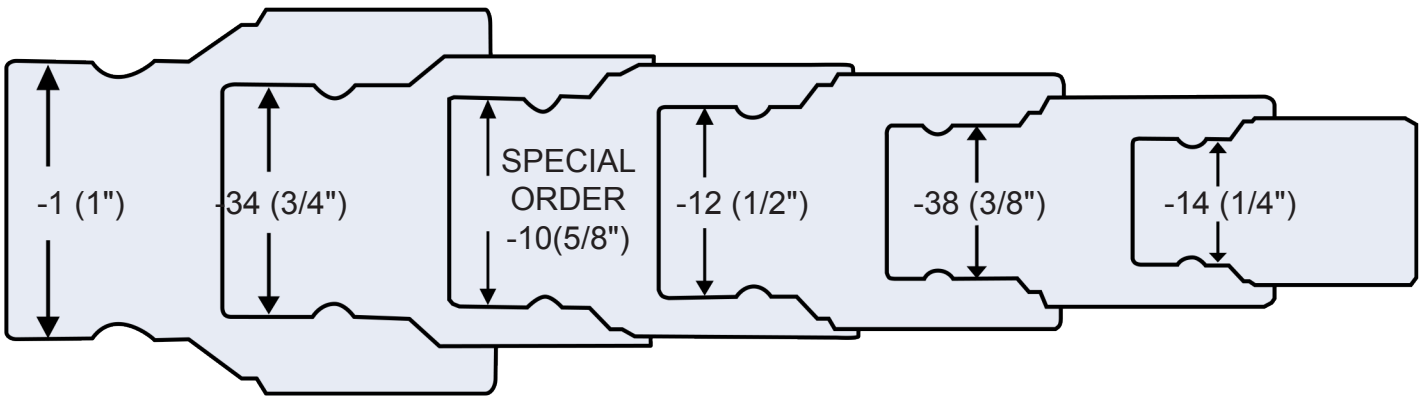


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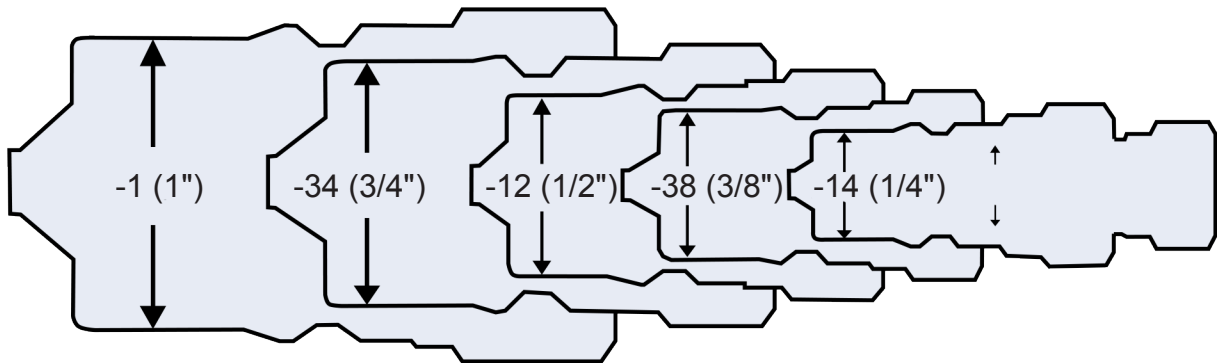
ISO 7241 - 1 - ISO A - ANV SERIES



ISO 16028 - FF SERIES



ISO 7241 - 1 - ISO B - HNV SERIES



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SWIVEL MALE PIPE ADAPTER

SAE# 140130



MALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	140422
1/4"	1/8"	140442
1/4"	1/4"	140444
1/4"	3/8"	140446
1/4"	1/2"	140448
1/4"	3/8"	140446
1/4"	1/2"	140448
3/8"	1/4"	140464
3/8"	3/8"	140466
3/8"	1/2"	140468
1/2"	1/4"	140484
1/2"	3/8"	140486
1/2"	1/2"	140488
1/2"	3/4"	1404812
3/4"	3/8"	1404126
3/4"	1/2"	1404128
3/4"	3/4"	14041212
3/4"	1"	14041216
1"	3/4"	14041612
1"	1"	14041616
1"	1-1/4"	14041620
1-1/4"	1"	14042016
1-1/4"	1-1/4"	14042020
1-1/4"	1-1/2"	14042024
1-1/2"	1-1/2"	14042424
2"	2"	14043232

EXPANDED PRODUCT LINE

SWIVEL MALE 90° PIPE ELBOW ADAPTER

SAE# 140230



MALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	150122
1/8"	1/4"	150124
1/4"	1/8"	150142
1/4"	1/4"	150144
1/4"	3/8"	150146
1/4"	1/2"	150148
3/8"	1/4"	150164
3/8"	3/8"	150166
3/8"	1/2"	150168
3/8"	3/4"	1501612
1/2"	1/4"	150184
1/2"	3/8"	150186
1/2"	1/2"	150188
3/4"	3/8"	1501126
3/4"	1/2"	1501128
3/4"	3/4"	15011212
3/4"	1"	15011216
1"	1/2"	1501168
1"	3/4"	15011612
1"	1"	15011616
1-1/4"	1"	15012016
1-1/4"	1-1/4"	1501220
1-1/4"	1-1/2"	15012024
1-1/2"	1-1/4"	15012420
1-1/2"	1-1/2"	15012424
2"	2"	15013232

Industry Crossovers: 1501 2047R 1218 9405 2107

HYDRAULICS

EXPANDED PRODUCT LINE

SWIVEL FEMALE PIPE ADAPTER

SAE# 140131



FEMALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	140522
1/4"	1/8"	140542
1/4"	1/4"	140544
1/4"	3/8"	140546
3/8"	1/4"	140564
3/8"	3/8"	140566
3/8"	1/2"	140568
1/2"	1/4"	140584
1/2"	3/8"	140586
1/2"	1/2"	140588
1/2"	3/4"	1405812
3/4"	1/2"	1405128
3/4"	3/4"	14051212
3/4"	1"	14051216
1"	3/4"	14051612
1"	1"	14051616
1-1/4"	1-1/4"	14052020
1-1/2"	1-1/4"	14052420
1-1/2"	1-1/2"	14052424
2"	2"	14053232

Industry Crossovers: 1405 2046R 1212 9255 C207

EXPANDED PRODUCT LINE

SWIVEL FEMALE 90° UNION ELBOW ADAPTER

SAE# 140231



FEMALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	150222
1/8"	1/4"	150224
1/4"	1/8"	150242
1/4"	1/4"	150244
1/4"	3/8"	150246
1/4"	1/2"	150248
3/8"	1/4"	150264
3/8"	3/8"	150266
3/8"	1/2"	150268
1/2"	1/4"	150284
1/2"	3/8"	150286
1/2"	1/2"	150288
1/2"	3/4"	1502812
3/4"	1/2"	1502128
3/4"	3/4"	15021212
1"	3/4"	1501612
1"	1"	15021616
1-1/4"	1-1/4"	15022020
1-1/2"	1-1/2"	15022424

Industry Crossovers: 1502 2077 1216 945SR

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

EXPANDED PRODUCT LINE

SWIVEL MALE 45° PIPE ELBOW ADAPTER

SAE# 140330



MALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	150322
1/8"	1/4"	150324
1/4"	1/4"	150344
1/4"	3/8"	150346
3/8"	1/4"	150364
3/8"	3/8"	150366
3/8"	1/2"	150368
1/2"	1/4"	150384
1/2"	3/8"	150386
1/2"	1/2"	150388
1/2"	3/4"	1503812
3/4"	1/2"	1503128
3/4"	3/4"	15031212
3/4"	1"	15031216
1"	3/4"	15031612
1"	1"	15031616
1"	1-1/4"	15031620
1-1/4"	1"	15032016
1-1/4"	1-1/4"	15032020
1-1/2"	1-1/2"	15032424
2"	2"	15033232

Industry Crossovers: 1503 2049R 3107 1214 9355R

EXPANDED PRODUCT LINE

SWIVEL FEMALE 45° UNION ELBOW ADAPTER

SAE# 140331



FEMALE PIPE 1	FEMALE NPSM 2	PART #
1/8"	1/8"	150422
1/4"	1/4"	150444
3/8"	1/4"	150464
3/8"	3/8"	150466
1/2"	1/2"	150488
3/4"	3/4"	15041212
1"	1"	15041616

Industry Crossovers: 1504 2050R 1249 9385R

EXPANDED PRODUCT LINE

SWIVEL MALE BRANCH TEE

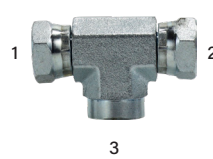


FEMALE NPSM 1	FEMALE NPSM 2	MALE PIPE 3	PART #
1/8"	1/8"	1/8"	160122
1/4"	1/4"	1/4"	160144
3/8"	1/4"	1/4"	160164
3/8"	3/8"	3/8"	160166
1/2"	1/4"	1/4"	160184
1/2"	1/2"	1/2"	160188
3/4"	1/2"	1/2"	1601128
3/4"	3/4"	3/4"	16011212
1"	1"	1"	16011616
1-1/4"	1-1/4"	1-1/4"	16012020
1-1/2"	1-1/2"	1-1/2"	16012424

Industry Crossovers: 1601 2254R 1258 9406R

EXPANDED PRODUCT LINE

SWIVEL FEMALE TEE



FEMALE NPSM 1	FEMALE NPSM 2	FEMALE PIPE 3	PART #
1/4"	1/4"	1/4"	160244
3/8"	1/4"	1/4"	160264
3/8"	3/8"	3/8"	160266
1/2"	3/8"	3/8"	160286
1/2"	1/2"	1/2"	160288
3/4"	1/2"	1/2"	1602128
3/4"	3/4"	3/4"	16021212
1"	3/4"	3/4"	16021612
1"	1"	1"	16021616
1-1/4"	1-1/4"	1-1/4"	16022020

Industry Crossovers: 1602 2253R 1259 9456R

EXPANDED PRODUCT LINE

SWIVEL FEMALE UNION TEE



FEMALE NPSM 1	PART #
1/4"	160344
3/8"	160366
1/2"	160388
3/4"	16031212
1"	16031616
1-1/4"	16032020

Industry Crossovers: 1603 2255 1223 9705R

⚠️ 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 LONG TUBE NUT

SAE# 070111



THREAD NPTF	PART #
3/16"	0306-03
1/4"	03044
5/16"	03045
3/8"	03046
1/2"	03048
5/8"	030410
3/4"	030412
1"	030416
1-1/2"	030624
2"	030632

Industry Crossovers: 304 221000 0304 C5115

JIC CAP

SAE# 070112
MS# 51532



TUBE O.D.	PART #
1/8"	0304C2
3/16"	0304C3
1/4"	0304C4
5/16"	0304C5
3/8"	0304C6
1/2"	0304C8
5/8"	0304C10
3/4"	0304C12
7/8"	0304C14
1"	0304C16
1-1/4"	0304C20
1-1/2"	0304C24
2"	0304C32

Industry Crossovers: 820 304 21v0292 FNTX 1329 C5129

JIC TUBE NUT (SLEEVE REQUIRED)

SAE# 070110
MS# 51531



TUBE O.D.	PART #
1/8"	03182
3/16"	03183
1/4"	03184
5/16"	03185
3/8"	03186
1/2"	03188
5/8"	031810
3/4"	031812
7/8"	031814
1"	031816
1-1/4"	031820
1-1/2"	031824
2"	031832

EXPANDED PRODUCT LINE JIC TUBE UNION

SAE# 070101
MS# 51501



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/8"	1/8"	240322
3/16"	3/16"	240333
1/4"	1/8"	2403-04-02
1/4"	3/16"	240343
1/4"	1/4"	240344
5/16"	1/4"	2403-05-04
5/16"	5/16"	240355
3/8"	1/4"	240364
3/8"	3/8"	240366
1/2"	1/4"	240384
1/2"	3/8"	240386
1/2"	1/2"	240388
5/8"	3/8"	2403106
5/8"	1/2"	2403108
5/8"	5/8"	24031010
3/4"	3/8"	2403126
3/4"	1/2"	2403128
3/4"	5/8"	24031210
3/4"	3/4"	24031212
7/8"	7/8"	24031414
1"	1/2"	2403-16-08
1"	3/4"	24031612
1"	1"	24031616
1-1/4"	1"	24032016
1-1/4"	1-1/4"	24032020
1-1/2"	1"	2403-24-16
2"	2"	240332

Industry Crossovers: 2403 2027 HTX 1204 C5305

EXPANDED PRODUCT LINE JIC TUBE SLEEVE

SAE# 070115
MS# 51533



THREAD NPTF	PART #
1/8"	03192
3/16"	03193
1/4"	03194
5/16"	03195
3/8"	03196
1/2"	03198
5/8"	031910
3/4"	031912
7/8"	031914
1"	031916
1-1/4"	031920
1-1/2"	031924
2"	031932

Industry Crossovers: 319 900605 TX 1253 C5165

EXPANDED PRODUCT LINE

JIC MALE CONNECTOR

SAE# 070102
MS# 51500



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/8"	1/8"	240422
3/16"	1/4"	240434
1/4"	1/8"	240442
1/4"	1/4"	240444
1/4"	3/8"	240446
1/4"	1/2"	240448
1/4"	3/4"	2404-04-12
5/16"	1/4"	240454
5/16"	1/2"	2404-05-08
3/8"	1/8"	240462
3/8"	1/4"	240464
3/8"	3/8"	240466
3/8"	1/2"	240468
3/8"	3/4"	2404612
3/8"	1"	2404-06-16
1/2"	1/8"	2404-08-02
1/2"	1/4"	240484
1/2"	3/8"	240486
1/2"	1/2"	240488
1/2"	3/4"	2404812
1/2"	1"	2404816
5/8"	1/4"	2404104
5/8"	3/8"	2404106
5/8"	1/2"	2404108
5/8"	3/4"	24041012
3/4"	3/8"	2404126
3/4"	1/2"	2404128
3/4"	3/4"	24041212
3/4"	1"	24041216
3/4"	1-1/2"	2404-12-24
1"	1/2"	2404-16-08
1"	3/4"	24041612
1"	1"	24041616
1"	1-1/4"	24041620
1"	1-1/2"	24041624
1-1/4"	3/4"	24042012
1-1/4"	1"	24042016
1-1/4"	1-1/4"	24042020
1-1/4"	1-1/2"	24042024
1-1/4"	2"	2404-20-32
1-1/2"	1"	24042416
1-1/2"	1-1/4"	24042420
1-1/2"	1-1/2"	24042424
1-1/2"	2"	24042432
2"	1"	24043216
2"	1-1/4"	24043220
2"	1-1/2"	24043224
2"	2"	24043232

Industry Crossovers: 2404 2021R FTX 1202R C5205 816

NEW PRODUCT LINE

JIC LONG MALE CONNECTOR



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/4"	1/4"	2404L44
3/8"	1/4"	2404L64
5/8"	1/2"	2404L108
3/4"	3/4"	2404L1212
1"	1"	2404L1616

NEW PRODUCT LINE

JIC X-LONG MALE CONNECTOR

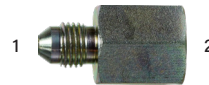


JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/4"	1/8"	2404-LL-04-02
1/4"	1/4"	2404-LL-04-04
3/8"	1/4"	2404-LL-06-04
3/8"	3/8"	2404-LL-06-06
1/2"	3/8"	2404-LL-08-06
1/2"	1/2"	2404-LL-08-08
5/8"	1/2"	2404-LL-10-08
3/4"	3/4"	2404-LL-12-12
1"	1"	2404-LL-16-16

EXPANDED PRODUCT LINE

JIC FEMALE CONNECTOR

SAE# 070103
MS# 51503



JIC TUBE SIZE 1	FEMALE PIPE THREAD 2	PART #
1/8"	1/8"	240522
3/16"	1/8"	240532
1/4"	1/8"	240542
1/4"	1/4"	240544
1/4"	3/8"	240546
5/16"	3/8"	2405-05-06
3/8"	1/8"	240562
3/8"	1/4"	240564
3/8"	3/8"	240566
3/8"	1/2"	240568
1/2"	1/4"	240584
1/2"	3/8"	240586
1/2"	1/2"	240588
1/2"	3/4"	2405812
5/8"	3/8"	2405106
5/8"	1/2"	2405108
3/4"	1/2"	2405128
3/4"	3/4"	24051212
3/4"	1"	24051216
7/8"	3/4"	24051412
1"	3/4"	24051612
1"	1"	24051616
1"	1-1/4"	24051620
1-1/4"	1-1/4"	24052020
1-1/4"	1-1/2"	24052024
1-1/2"	1-1/2"	24052424
2"	2"	24053232

Industry Crossovers: 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

HYDRAULICS

EXPANDED PRODUCT LINE

JIC REDUCER/EXPANDER

SAE# 070123



FEMALE JIC TUBE SIZE 1	MALE JIC TUBE SIZE 2	PART #
3/16"	1/4"	240634
1/4"	1/4"	2406-04-04
1/4"	5/16"	2406-04-05
5/16"	1/4"	2406-05-04
3/8"	1/4"	240664
3/8"	5/16"	240665
3/8"	3/8"	240666
3/8"	1/2"	240668
1/2"	1/4"	240684
1/2"	5/16"	2406-08-05
1/2"	3/8"	240686
1/2"	1/2"	2406-08-08
1/2"	5/8"	2406810
1/2"	3/4"	2406812
5/8"	1/4"	2406104
5/8"	3/8"	2406106
5/8"	1/2"	2406108
3/4"	1/4"	2406124
3/4"	3/8"	2406126
3/4"	1/2"	2406128
3/4"	5/8"	24061210
3/4"	1"	24061216
1"	1/4"	2406164
1"	3/8"	2406166
1"	1/2"	2406168
1"	3/4"	24061612
1"	7/8"	24061614
1"	1-1/4"	24061620
1-1/4"	3/8"	2406-20-06
1-1/4"	1/2"	2406208
1-1/4"	3/4"	24062012
1-1/4"	1"	24062016
1-1/4"	1/2"	2406-20-08
1-1/2"	1"	24062416
1-1/2"	1-1/4"	24062420
2"	1-1/4"	2406-32-20
2"	1-1/4"	24063224

Industry Crossovers: 2406 C5015 2215 TRTX 1246

JIC PLUG

SAE# 070109
MS# 51518



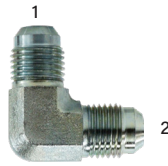
TUBE O.D.	PART #
1/8"	24082
3/16"	24083
1/4"	24084
5/16"	24085
3/8"	24086
1/2"	24088
5/8"	240810
3/4"	240812
7/8"	240814
1"	240816
1-1/4"	240820
1-1/2"	240824
2"	240832

Industry Crossovers: 2408 430549 PNTX 1254 C5229

EXPANDED PRODUCT LINE

JIC 90° UNION ELBOW

SAE# 070201
MS# 51505



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/8"	1/8"	250022
1/4"	1/4"	250044
5/16"	5/16"	250055
3/8"	1/4"	250064
3/8"	3/8"	250066
1/2"	1/4"	250084
1/2"	3/8"	250086
1/2"	1/2"	250088
5/8"	1/2"	2500108
5/8"	5/8"	25001010
3/4"	1/2"	2500128
3/4"	3/4"	25001212
1"	3/4"	25001612
1"	1"	25001616
1-1/4"	1"	2500-20-16
1-1/4"	1-1/4"	25002020
1-1/2"	1-1/2"	25002424
2"	2"	25003232

Industry Crossovers: 2500 2039 1234 C5505 821

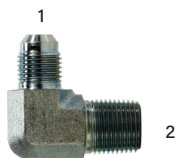
TUBE O.D.	THREAD SIZE
1/8"	5/16-24
3/16"	3/8-24
1/4"	7/16-20
5/16"	1/2-20
3/8"	9/16-18
1/2"	3/4-16
5/8"	7/8-14
3/4"	1-1/16-12
7/8"	1-3/16-12
1"	1-5/16-12
1-1/4"	1-5/8-12
1-1/2"	1-7/8-12
2"	2-1/2-12

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

EXPANDED PRODUCT LINE

JIC MALE 90° ELBOW

SAE# 070202
MS# 51504



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/8"	1/8"	250122
3/16"	1/8"	250132
3/16"	1/4"	250134
1/4"	1/8"	250142
1/4"	1/4"	250144
1/4"	3/8"	250146
1/4"	1/2"	250148
5/16"	1/2"	250158
3/8"	1/8"	250162
3/8"	1/4"	250164
3/8"	3/8"	250166
3/8"	1/2"	250168
3/8"	3/4"	2501612
1/2"	1/8"	2501-08-02
1/2"	1/4"	250184
1/2"	3/8"	250186
1/2"	1/2"	250188
1/2"	3/4"	2501812
1/2"	1"	2501816
5/8"	3/8"	2501106
5/8"	1/2"	2501108
5/8"	3/4"	25011012
3/4"	3/8"	2501126
3/4"	1/2"	2501128
3/4"	3/4"	25011212
3/4"	1"	25011216
1"	1/2"	2501-16-08
1"	3/4"	25011612
1"	1"	25011616
1"	1-1/4"	25011620
1"	1-1/2"	2501-16-24
1-1/4"	3/4"	25012012
1-1/4"	1"	25012016
1-1/4"	1-1/4"	25012020
1-1/4"	1-1/2"	25012024
1-1/2"	1"	25012416
1-1/2"	1-1/4"	25012420
1-1/2"	1-1/2"	25012424
1-1/2"	2"	25012432
2"	1-1/2"	25013224
2"	2"	25013232

Industry Crossovers: 1208R C5405 2501 2024R CTX 822

NEW PRODUCT LINE

JIC LONG MALE 90° ELBOW



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
5/16"	1/8"	2501L52
3/8"	1/8"	2501L62
3/8"	3/8"	2501L66
3/8"	1/2"	2501-L-06-08
1/2"	3/4"	2501-L-08-12
5/8"	1/2"	2501L108
3/4"	3/4"	2501L1212
1"	3/4"	2501-L-16-12
1"	1"	2501L1616

NEW PRODUCT LINE

JIC X-LONG MALE 90° ELBOW



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
5/16"	1/4"	2501LL54
3/8"	1/4"	2501LL64
1/2"	3/8"	2501LL86
1/2"	1/2"	2501-LL-08-08
5/8"	1/2"	2501LL108
3/4"	3/4"	2501LL1212

NEW PRODUCT LINE

JIC XX-LONG MALE 90° ELBOW



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/4"	1/4"	2501LLL44
5/16"	1/8"	2501-LLL-05-02
3/8"	1/4"	2501LLL64
3/8"	3/8"	2501LLL66
1/2"	3/8"	2501LLL86
1/2"	1/2"	2501LLL88
5/8"	1/2"	2501LLL108
3/4"	3/4"	2501LLL1212

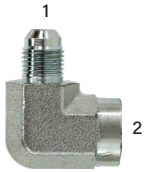
⚠️ WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HYDRAULICS

EXPANDED PRODUCT LINE

JIC FEMALE 90° ELBOW

SAE# 070203
MS# 51506



JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	PART #
3/16"	1/8"	2502-03-02
1/4"	1/8"	250242
1/4"	1/4"	250244
1/4"	3/8"	250246
3/8"	1/8"	250262
3/8"	1/4"	250264
3/8"	3/8"	250266
3/8"	1/2"	250268
1/2"	1/4"	250284
1/2"	3/8"	250286
1/2"	1/2"	250288
5/8"	3/8"	2502106
3/4"	1/2"	2502128
3/4"	3/4"	25021212
7/8"	3/4"	25021412
1"	3/4"	25021612
1"	1"	25021616
1-1/4"	1-1/4"	25022020
1-1/2"	1-1/2"	25022424
2"	2"	25023232

Industry Crossovers: 2502 2025R DTX 1240R C5455

JIC MALE 45° UNION ELBOW



JIC THREAD SIZE 1	MALE PIPE SIZE 2	PART #
1/4"	1/4"	25044
3/8"	3/8"	25046
1/2"	1/2"	25048

NEW PRODUCT LINE

JIC FEMALE 45° UNION ELBOW



JIC THREAD SIZE 1	FEMALE PIPE SIZE 2	PART #
1/8"	1/8"	250522
5/8"	1/2"	2505108

EXPANDED PRODUCT LINE

JIC MALE 45° ELBOW

SAE# 070302
MS# 51508



JIC TUBE SIZE 1	MALE PIPE SIZE 2	PART #
1/8"	1/8"	250322
1/4"	1/8"	250342
1/4"	1/4"	250344
1/4"	3/8"	250346
1/4"	1/2"	2503-04-08
5/16"	1/8"	250352
3/8"	1/8"	250362
3/8"	1/4"	250364
3/8"	3/8"	250366
3/8"	1/2"	250368
3/8"	3/4"	2503612
1/2"	1/4"	250384
1/2"	3/8"	250386
1/2"	1/2"	250388
5/8"	3/8"	2503106
5/8"	1/2"	2503108
5/8"	3/4"	25031012
3/4"	3/4"	25031212
3/4"	1"	25031216
1"	1"	25031616
1"	1-1/4"	25031620
1-1/4"	1"	25032016
1-1/4"	1-1/4"	25032020
1-1/4"	1-1/2"	2503-20-24
1-1/2"	1-1/2"	25032424
2"	2"	25033232

Industry Crossovers: 2503 2023R VTX 1206R C5355 823

EXPANDED PRODUCT LINE

JIC MALE BRANCH TEE



JIC TUBE SIZE 1	JIC TUBE SIZE 2	MALE PIPE SIZE 3	PART #
1/8"	1/8"	1/8"	260122
1/8"	1/8"	1/8"	260132
1/4"	1/4"	1/8"	260142
1/4"	1/4"	1/4"	260144
5/16"	5/16"	1/8"	260152
3/8"	3/8"	1/4"	2601-06-06-04
3/8"	3/8"	3/8"	260166
1/2"	1/2"	1/4"	260184
1/2"	1/2"	3/8"	260186
1/2"	1/2"	1/2"	260188
1/2"	1/2"	3/4"	2601-08-08-12
5/8"	5/8"	1/2"	2601-10-10-08
3/4"	3/4"	1/2"	2601128
3/4"	3/4"	3/4"	26011212
7/8"	7/8"	3/4"	26011412
1"	1"	3/4"	26011612
1-1/2"	1-1/2"	1-1/2"	26012424
2"	2"	2"	26013232

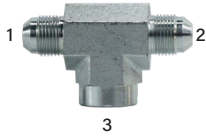
Industry Crossovers: 2601 2030R STX 1221R C5605

⚠️ 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

EXPANDED PRODUCT LINE

JIC FEMALE BRANCH TEE

SAE# 070427
MS# 51513



JIC THREAD SIZE 1	JIC THREAD SIZE 2	FEMALE PIPE SIZE 3	PART #
3/16"	3/16"	1/8"	260232
1/4"	1/4"	1/8"	260242
1/4"	1/4"	1/4"	260244
5/16"	5/16"	1/8"	260252
3/8"	3/8"	1/4"	260264
3/8"	3/8"	3/8"	260266
1/2"	1/2"	1/4"	260284
1/2"	1/2"	1/2"	260288
5/8"	5/8"	1/2"	2602-10-10-08
1-1/2"	1-1/2"	1-1/2"	26022424
2"	2"	2"	26023232

Industry Crossovers: 2602 2031R OTX 1228R C6566

NEW PRODUCT LINE

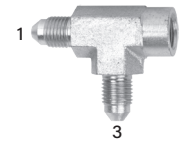
JIC MALE RUN TEE



JIC TUBE SIZE 1	MALE PIPE SIZE 2	JIC TUBE SIZE 3	PART #
1/4"	1/8"	1/4"	260542
1/2"	3/8"	1/2"	260586
5/8"	1/2"	5/8"	2605108

NEW PRODUCT LINE

JIC FEMALE RUN TEE



JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	JIC TUBE SIZE 3	PART #
3/16"	1/8"	3/16"	260632
1/4"	1/8"	1/4"	260642
1/4"	1/4"	1/4"	260644
3/8"	1/4"	3/8"	260664
1/2"	3/8"	1/2"	260686
1/2"	1/2"	1/2"	260688
1"	1"	1"	26061616
1-1/4"	1-1/4"	1-1/4"	26062020
2"	2"	2"	26063232

EXPANDED PRODUCT LINE

JIC UNION TEE

SAE# 070401
MS# 51510



JIC TUBE SIZE 1	JIC TUBE SIZE 2	JIC TUBE SIZE 3	PART #
1/8"	1/8"	1/8"	260322
3/16"	3/16"	3/16"	260333
1/4"	1/4"	1/4"	260344
1/4"	1/4"	3/8"	2603-04-04-06
3/8"	3/8"	3/8"	260366
3/8"	3/8"	1/2"	2603-06-06-08
1/2"	1/2"	3/8"	2603-08-08-06
1/2"	1/2"	1/2"	260388
1/2"	1/2"	5/8"	2603-08-08-10
5/8"	5/8"	5/8"	26031010
5/8"	5/8"	3/4"	2603-10-10-12
3/4"	1/2"	3/4"	2603128
3/4"	3/4"	3/4"	26031212
1"	1"	1"	26031616
1"	1"	1-1/4"	2603-16-16-20
2"	2"	2"	26033232

Industry Crossovers: 2603 2033 JTX 1220 C5705

NEW PRODUCT LINE

JIC UNION CROSS



JIC TUBE SIZE	PART #
1/4"	26504
1-1/2"	265024

⚠️ **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 NUT

SAE# 070118
MS# 51860



* Lock Nut
NOT Included
on Fittings

TUBE SIZE	PART #
1/8"	03062
1/4"	03064
5/16"	03065
3/8"	03066
1/2"	03068
5/8"	030610
3/4"	030612
7/8"	030614
1"	030616
1-1/4"	030620

Industry Crossovers: 1306 894 210212 WLN 1332 C5624

EXPANDED PRODUCT LINE

JIC BULKHEAD 90° UNION ELBOW

SAE# 070701
MS# 51507



JIC TUBE SIZE 1	JIC BULKHEAD TUBE 2	PART #
3/16"	3/16"	2701-03-03
1/4"	1/4"	27014
5/16"	5/16"	27015
3/8"	3/8"	27016
1/2"	1/2"	27018
5/8"	5/8"	270110
3/4"	3/4"	270112
7/8"	7/8"	270114
1"	1"	270116
1-1/4"	1-1/4"	270120
1-1/2"	1-1/2"	270124
2"	2"	2701-32-32

Industry Crossovers: 2701 2043R WETX 1262 C5525

EXPANDED PRODUCT LINE

JIC BULKHEAD UNION

SAE# 070601
MS# 51520



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/8"	1/8"	270022
3/16"	3/16"	270033
1/4"	1/4"	270044
5/16"	5/16"	270055
3/8"	3/8"	270066
1/2"	1/2"	27008
5/8"	5/8"	270010
3/4"	3/4"	270012
7/8"	7/8"	270014
1"	1"	270016
1-1/2"	1-1/2"	270024
2"	2"	270032

Industry Crossovers: 2700 2041R WTX 1260 C5325

EXPANDED PRODUCT LINE

JIC BULKHEAD 45° UNION ELBOW

SAE# 070801
MS# 51509



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	27024
5/16"	5/16"	2702-05-05
3/8"	3/8"	27026
1/2"	1/2"	27028
5/8"	5/8"	270210
3/4"	3/4"	270212
1"	1"	270216
1-1/4"	1-1/4"	270220
1-1/2"	1-1/2"	270224

Industry Crossovers: 2702 2042 WNTX 1261 C5375

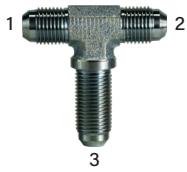
HYDRAULICS

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

EXPANDED PRODUCT LINE

JIC BULKHEAD BRANCH TEE

SAE# 070959
MS# 51515



JIC TUBE SIZE 1	JIC TUBE SIZE 2	JIC TUBE SIZE 3	PART #
1/4"	1/4"	1/4"	27034
3/8"	3/8"	3/8"	27036
1/2"	1/2"	1/2"	27038
5/8"	5/8"	5/8"	270310
3/4"	3/4"	3/4"	270312
1"	1"	1"	270316
1-1/4"	1-1/4"	1-1/4"	270320
1-1/2"	1-1/2"	1-1/2"	2703-24-24-24

Industry Crossovers: 2703 203002 WJT 1283 C5725

EXPANDED PRODUCT LINE

JIC FEMALE PIPE BULKHEAD



JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	PART #
1/4"	1/4"	270544
5/16"	1/8"	270552
3/8"	1/4"	270564
3/8"	3/8"	270566
3/8"	1/2"	270568
1/2"	1/2"	270588
5/8"	1/2"	2705108
3/4"	3/4"	27051212
3/4"	1"	27051616
1-1/4"	1-1/4"	27052020
1-1/2"	1-1/2"	27052424
2"	2"	27053232

Industry Crossovers: 2705 2239 WGTX C5275

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

EXPANDED PRODUCT LINE

JIC BULKHEAD RUN TEE

SAE# 070958
MS# 51516



JIC TUBE SIZE 1	JIC TUBE SIZE 2	JIC TUBE SIZE 3	PART #
1/4"	1/4"	1/4"	27044
3/8"	3/8"	3/8"	27046
1/2"	1/2"	1/2"	27048
5/8"	5/8"	5/8"	270410
3/4"	3/4"	3/4"	270412
1"	1"	1"	270416
1-1/4"	1-1/4"	1-1/4"	2704-20-20-20
1-1/2"	1-1/2"	1-1/2"	2704-24-24-24

Industry Crossovers: 2704 203008 WJIT 1284 C5726

EXPANDED PRODUCT LINE

JIC MALE PIPE BULKHEAD



JIC TUBE SIZE 1	PIPE SIZE 2	PART #
1/4"	1/8"	270642
1/4"	1/4"	270644
3/8"	3/8"	270666
1/2"	3/8"	270686
1/2"	1/2"	270688
3/4"	3/4"	27061212
1"	1"	27061616
1-1/4"	1-1/4"	27062020
1-1/2"	1-1/2"	27062424
2"	2"	27063232

Industry Crossovers: 2706 2240

HYDRAULICS

EXPANDED PRODUCT LINE

PIPE COUPLING

SAE# 140138



FEMALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	50002
1/4"	1/8"	500042
1/4"	1/4"	50004
3/8"	1/4"	500064
3/8"	3/8"	500066
1/2"	1/4"	500084
1/2"	3/8"	500086
1/2"	1/2"	50008
3/4"	1/4"	5000124
3/4"	3/8"	5000126
3/4"	1/2"	5000128
3/4"	3/4"	50001212
1"	1/2"	5000168
1"	3/4"	50001612
1"	1"	500016
1-1/4"	3/4"	50002012
1-1/4"	1"	50002016
1-1/4"	1-1/4"	50002020
1-1/2"	1-1/2"	500024
2"	2"	500032

Industry Crossovers: 910 5000 2096 GG 1273 C3309

EXPANDED PRODUCT LINE

PIPE HEX NIPPLES

SAE# 140137



MALE PIPE 1	MALE PIPE 2	PART #
1/8"	1/8"	54042
1/4"	1/8"	540442
1/4"	1/4"	54044
3/8"	1/8"	540462
3/8"	1/4"	540464
3/8"	3/8"	54046
1/2"	1/4"	540484
1/2"	3/8"	540486
1/2"	1/2"	54048
3/4"	3/8"	5404126
3/4"	1/2"	5404128
3/4"	3/4"	540412
1"	3/8"	5404166
1"	1/2"	5404168
1"	3/4"	54041612
1"	1"	540416
1-1/4"	3/4"	54042012
1-1/4"	1"	54042016
1-1/4"	1-1/4"	540420
1-1/2"	3/4"	54042412
1-1/2"	1"	54042416
1-1/2"	1-1/4"	54042420
1-1/2"	1-1/2"	540424
2"	1-1/4"	24043220
2"	1-1/2"	54043224
2"	2"	540432

Industry Crossovers: 5404 2083 FF 1252 C3069 911

EXPANDED PRODUCT LINE

PIPE EXPANDING ADAPTER

SAE# 140139



MALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	540522
1/8"	1/4"	540524
1/8"	1/2"	540528
1/4"	1/8"	540542
1/4"	1/4"	540544
1/4"	3/8"	540546
1/4"	1/2"	540548
1/4"	3/4"	5405412
3/8"	1/4"	540564
3/8"	3/8"	540566
3/8"	1/2"	540568
3/8"	3/4"	5405612
1/2"	1/2"	540588
1/2"	3/4"	5405812
1/2"	1"	5405816
3/4"	1/2"	5405128
3/4"	3/4"	54051212
3/4"	1"	54051216
3/4"	1-1/4"	54051220
1"	1"	54051616
1"	1-1/4"	54051620
1"	1-1/2"	54051624
1-1/4"	1-1/4"	54052020
1-1/4"	1-1/2"	54052024
1-1/2"	1-1/2"	54052424
1-1/2"	2"	54052432

Industry Crossovers: 920 5405 2040 FG-(R) 1274 C3209(R)

⚠️ 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

REDUCING HEX BUSHING

SAEF1# 140140



MALE PIPE	FEMALE PIPE	PART #
1/4"	1/8"	540642
3/8"	1/8"	540662
3/8"	1/4"	540664
1/2"	1/8"	540682
1/2"	1/4"	540684
1/2"	3/8"	540686
3/4"	1/8"	5406122
3/4"	1/4"	5406124
3/4"	3/8"	5406126
3/4"	1/2"	5406128
1"	1/4"	5406164
1"	3/8"	5406166
1"	1/2"	5406168
1"	3/4"	54061612
1-1/4"	1/4"	5406204
1-1/4"	3/8"	5406206
1-1/4"	1/2"	5406208
1-1/4"	3/4"	54062012
1-1/4"	1"	54062016
1-1/2"	1/2"	5406248
1-1/2"	3/4"	54062412
1-1/2"	1"	54062416
1-1/2"	1-1/4"	54062420
2"	1/2"	5406328
2"	3/4"	54063212
2"	1"	54063216
2"	1-1/4"	54063220
2"	1-1/2"	54063224

HEX HEAD PLUG

SAE# 130109E



MALE PIPE	PART #
1/8"	5406P2
1/4"	5406P4
3/8"	5406P6
1/2"	5406P8
3/4"	5406P12
1"	5406P16
1-1/4"	5406P20
1-1/2"	5406P24
2"	5406P32

Industry Crossovers: 933 5406P 2082 HP 1251 C3159

EXPANDED PRODUCT LINE HOLLOW HEX PLUG

SAE# 130109



MALE PIPE	PART #
1/8"	5406HHP2
1/4"	5406HHP4
3/8"	5406HHP6
1/2"	5406HHP8
3/4"	5406HHP12
1"	5406HHP16
1-1/4"	5406HHP20
1-1/2"	5406HHP24
2"	5406HHP32

Industry Crossovers: C3169 2222

FLUSH HOLLOW HEX PLUG WITH 7/8" TAPER



MALE PIPE	PART #
1/8"	5406FLP2
1/4"	5406FLP4
3/8"	5406FLP6
1/2"	5406FLP8
3/4"	5406FLP12

SQUARE HEAD PLUG

SAE# 130109A



MALE PIPE	PART #
1/8"	5406SHP2
1/4"	5406SHP4
3/8"	5406SHP6
1/2"	5406SHP8
3/4"	5406SHP12
1"	5406SHP16
1-1/4"	5406SHP20
1-1/2"	5406SHP24
2"	5406SHP32

Industry Crossovers: C3179

NEW PRODUCT LINE REDUCING MALE FEMALE BUSHING



MALE PIPE	FEMALE PIPE	PART #
1"	1/8"	5406-16-02
1-1/2"	1/4"	5406244
2"	1/2"	5406328
2-1/2"	2"	54064032

PIPE CAP



FEMALE PIPE	PART #
1/8"	5406C2
1/4"	5406C4
3/8"	5406C6
1/2"	5406C8
3/4"	5406C12
1"	5406C16

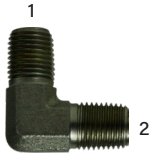
Industry Crossovers: HPC

⚠️ 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

HYDRAULICS

MALE 90° ELBOW

SAE# 140237

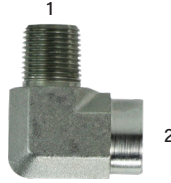


MALE PIPE 1	MALE PIPE 2	PART #
1/8"	1/8"	55002
1/4"	1/8"	550042
1/4"	1/4"	55004
3/8"	1/4"	550064
3/8"	3/8"	55006
1/2"	1/4"	550084
1/2"	3/8"	550086
1/2"	1/2"	55008
3/4"	1/2"	5500128
3/4"	3/4"	55001212
1"	3/4"	55001612
1"	1"	550016
1"	3/4"	55001612
1-1/4"	1"	55002016
1-1/4"	1-1/4"	55002020
1-1/2"	1-1/2"	550024
2"	2"	550032

Industry Crossovers: 919 5500 2085 CR 1275 C3529

90° STREET ELBOW

SAE# 140239



MALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	55022
1/4"	1/4"	55024
1/4"	1/8"	550242
1/4"	3/8"	550246
1/4"	1/2"	5502488
3/8"	1/4"	550264
3/8"	3/8"	55026
3/8"	1/2"	550268
1/2"	1/4"	550284
1/2"	3/8"	550286
1/2"	1/2"	550288
1/2"	3/4"	5502812
3/4"	1/2"	5502128
3/4"	3/4"	550212
3/4"	1"	55021216
1"	3/4"	55021612
1"	1"	55021616
1"	1-1/4"	55021620
1-1/4"	1-1/4"	550220
1-1/2"	1-1/2"	550224
2"	2"	550232

Industry Crossovers: 5502 2089 CD 1234R C3409 914

MALE 45° ELBOW



MALE PIPE 1	MALE PIPE 2	PART #
1/8"	1/8"	550122
1/4"	1/4"	550144
3/8"	3/8"	550166
1/2"	1/2"	55018
3/4"	3/4"	55011212
1"	1"	55011616

Industry Crossovers: 5501 2247

EXPANDED PRODUCT LINE

45° STREET ELBOW

SAE# 140339



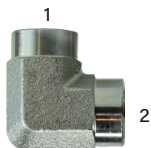
MALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	55032
1/4"	1/4"	55034
3/8"	3/8"	55036
1/2"	1/2"	55038
3/4"	3/4"	55031212
1"	1"	550316
1-1/4"	1-1/4"	550320
1-1/2"	1-1/2"	550324
2"	2"	550332

Industry Crossovers: 5503 CD45 1244

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 90° ELBOW

SAE# 140238



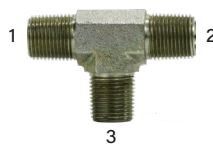
FEMALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	55042
1/4"	1/8"	550442
1/4"	1/4"	55044
3/8"	3/8"	55046
3/8"	1/4"	550464
1/2"	1/4"	550484
1/2"	3/8"	550486
1/2"	1/2"	55048
3/4"	1/2"	5504128
3/4"	3/4"	550412
1"	3/4"	55041612
1"	1"	550416
1-1/4"	1-1/4"	550420
1-1/2"	1-1/2"	550424

Industry Crossovers: 5504 2087 DD 1245 C3509 916

EXPANDED PRODUCT LINE

PIPE MALE TEE

SAE# 140437



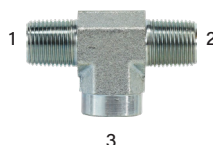
MALE PIPE 1	MALE PIPE 2	MALE PIPE 3	PART #
1/8"	1/8"	1/8"	560022
1/4"	1/4"	1/4"	560044
3/8"	3/8"	3/8"	560066
1/2"	1/2"	1/2"	560088
3/4"	3/4"	3/4"	560012
1"	1"	1"	560016
1-1/4"	1-1/4"	1-1/4"	560020

Industry Crossovers: 5600 2257 RRS

EXPANDED PRODUCT LINE

PIPE FEMALE BRANCH TEE

SAE# 140427



MALE PIPE 1	MALE PIPE 2	FEMALE PIPE 3	PART #
1/8"	1/8"	1/8"	560122
1/4"	1/4"	1/4"	560144
3/8"	3/8"	3/8"	560166
3/4"	3/4"	3/4"	560112
1"	1"	1"	560116
1-1/4"	1-1/4"	1-1/4"	560120

Industry Crossovers: 901 5601 2256

EXPANDED PRODUCT LINE

FEMALE 45° ELBOW

SAE# 140338



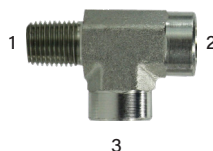
FEMALE PIPE 1	FEMALE PIPE 2	PART #
1/8"	1/8"	55052
1/4"	1/4"	55054
3/8"	3/8"	55056
1/2"	1/2"	55058
3/4"	3/4"	550512
1"	1"	550516
1-1/4"	1-1/4"	550520
1-1/2"	1-1/2"	5505-24-24

Industry Crossovers: 5505 DD45 1241 C3559

EXPANDED PRODUCT LINE

PIPE STREET TEE

SAE# 140424



MALE PIPE 1	FEMALE PIPE 2	FEMALE PIPE 3	PART #
1/8"	1/8"	1/8"	560222
1/4"	1/4"	1/4"	560244
3/8"	3/8"	3/8"	560266
1/2"	1/2"	1/2"	560288
3/4"	3/4"	3/4"	560212
1"	1"	1"	560216
2"	2"	2"	5602-32-32-32

Industry Crossovers: 902 5602 2092 MRO 1276 C3759

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

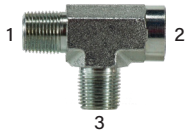
HYDRAULICS

HYDRAULICS

EXPANDED PRODUCT LINE

PIPE FEMALE RUN TEE

SAE# 1404276



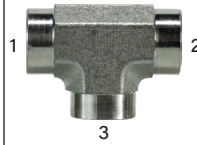
MALE PIPE 1	FEMALE PIPE 2	MALE PIPE 3	PART #
1/8"	1/8"	1/8"	560322
1/4"	1/4"	1/4"	560344
3/8"	3/8"	3/8"	560366
1/2"	1/2"	1/2"	560388
3/4"	3/4"	3/4"	560312
1"	1"	1"	560316
1-1/4"	1-1/4"	1-1/4"	560320

Industry Crossovers: 5603 2093 MMO 1277

EXPANDED PRODUCT LINE

PIPE FEMALE TEE

SAE# 140438



FEMALE PIPE 1	FEMALE PIPE 2	FEMALE PIPE 3	PART #
1/8"	1/8"	1/8"	560522
1/4"	1/4"	1/4"	560544
3/8"	3/8"	3/8"	560566
1/2"	1/2"	1/2"	56058
3/4"	3/4"	3/4"	560512
3/4"	3/4"	1/2"	5605-12-12-08
1"	1"	1"	560516
1-1/4"	1-1/4"	1-1/4"	560520
1-1/2"	1-1/2"	1-1/2"	560524

Industry Crossovers: 917 5605 2090 1225 C3709

EXPANDED PRODUCT LINE

PIPE MALE BRANCH TEE



FEMALE PIPE 1	FEMALE PIPE 2	MALE PIPE 3	PART #
1/8"	1/8"	1/8"	560422
1/4"	1/4"	1/4"	560444
3/8"	3/8"	3/8"	560466
1/2"	1/2"	1/2"	560488
3/4"	3/4"	3/4"	560412
1"	1"	1"	560416
1-1/4"	1-1/4"	1-1/4"	560420
2"	2"	2"	5604-32-32-32

Industry Crossovers: 904 5604 2091 MMS 1278 C3609

EXPANDED PRODUCT LINE

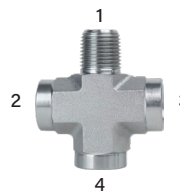
PIPE FEMALE CROSS



FEMALE PIPE SIZE	PART #
3/8"	56526
1/2"	56528

NEW PRODUCT LINE

PIPE MALE FEMALE CROSS



MALE PIPE 1	FEMALE PIPE 2, 3, 4	PART #
1/2"	1/2"	56558888

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

EXPANDED PRODUCT LINE

JIC TO O-RING CONNECTOR

SAE# 070120
MS# 51525



JIC TUBE SIZE 1	O-RING TUBE 2	PART #
1/8"	1/8"	64002
3/16"	3/16"	64003
1/4"	1/8"	640042
1/4"	1/4"	64004
1/4"	3/8"	640046
1/4"	1/2"	640048
5/16"	1/4"	640054
5/16"	5/16"	64005
5/16"	3/8"	640056
3/8"	1/4"	640064
3/8"	5/16"	640065
3/8"	3/8"	64006
3/8"	1/2"	640068
3/8"	5/8"	6400610
3/8"	3/4"	6400612
3/8"	1"	6400616
1/2"	1/4"	640084
1/2"	5/16"	6400-08-05
1/2"	3/8"	640086
1/2"	1/2"	64008
1/2"	5/8"	6400810
1/2"	3/4"	6400812
1/2"	1"	6400816
5/8"	1/4"	6400-10-04
5/8"	3/8"	6400106
5/8"	1/2"	6400108
5/8"	5/8"	640010
5/8"	3/4"	64001012
5/8"	7/8"	6400-10-14
5/8"	1"	64001016
3/4"	3/8"	6400126
3/4"	1/2"	6400128
3/4"	5/8"	64001210
3/4"	3/4"	640012
3/4"	7/8"	64001214
3/4"	1"	64001216
3/4"	1-1/2"	64001224
7/8"	5/8"	6400-14-10
7/8"	7/8"	640014
1"	1/2"	6400168
1"	5/8"	64001610
1"	3/4"	64001612
1"	7/8"	64001614
1"	1"	640016
1"	1-1/4"	64001620
1"	1-1/2"	64001624
1-1/4"	3/4"	64002012
1-1/4"	1"	64002016
1-1/4"	1-1/4"	640020
1-1/2"	1-1/2"	64002024
1-1/2"	1"	6400-24-16
1-1/2"	1-1/4"	64002420
1-1/2"	1-1/2"	640024
1-1/2"	2"	64002432
2"	1-1/4"	6400-32-20
2"	1-1/2"	64003224
2"	2"	640032

Industry Crossovers: 6400 202702R F50X 1231 C5315

EXPANDED PRODUCT LINE

O-RING TO PIPE ADAPTER



O-RING TUBE 1	MALE PIPE THREAD 2	PART #
1/4"	1/8"	640142
1/4"	1/4"	640144
3/8"	1/4"	640164
3/8"	3/8"	640166
3/8"	1/2"	640168
1/2"	1/4"	640184
1/2"	3/8"	640186
1/2"	1/2"	640188
1/2"	3/4"	6401812
5/8"	3/8"	6401106
5/8"	1/2"	6401108
3/4"	3/8"	6401126
3/4"	1/2"	6401128
3/4"	3/4"	64011212
1"	3/4"	64011612
1"	1"	64011616
1-1/4"	1"	64012016
1-1/4"	1-1/4"	64012020
1-1/2"	1-1/4"	6401-24-20
1-1/2"	1-1/2"	64012424
2"	2"	64013232

Industry Crossovers: 6401 F5X 1264R C3249

O-RING TO 37° JIC SWIVEL ADAPTER



O-RING TUBE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	6402044
1/4"	3/8"	6402046
3/8"	3/8"	6402066
3/8"	1/2"	6402068
1/2"	3/8"	6402086
1/2"	1/2"	6402088
1/2"	5/8"	64020810
5/8"	1/2"	64020108
5/8"	5/8"	640201010
3/4"	3/4"	640201212
1"	1"	640201616
1-1/4"	1-1/4"	640202020

Industry Crossovers: 6402 2266 F65X 1213 9316

▲ 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

HYDRAULICS

O-RING HEX NIPPLE UNION



O-RING TUBE 1	O-RING TUBE 2	PART #
1/4"	1/4"	640304
3/8"	3/8"	640306
1/2"	1/2"	640308
3/4"	3/4"	6403012
1"	1"	6403016

EXPANDED PRODUCT LINE

O-RING TO PIPE FEMALE ADAPTER



O-RING TUBE 1	FEMALE PIPE THREAD 2	PART #
1/8"	1/8"	6405022
1/8"	1/4"	6405024
3/16"	1/8"	6405032
3/16"	1/4"	6405034
1/4"	1/8"	6405042
1/4"	1/4"	6405044
1/4"	3/8"	6405046
5/16"	1/8"	6405052
5/16"	1/4"	6405054
3/8"	1/8"	6405062
3/8"	1/4"	6405064
3/8"	3/8"	6405066
3/8"	1/2"	6405068
3/8"	3/4"	64050612
1/2"	1/4"	6405084
1/2"	3/8"	6405086
1/2"	1/2"	6405088
1/2"	3/4"	64050812
5/8"	1/4"	64050104
5/8"	3/8"	64050106
5/8"	1/2"	64050108
5/8"	3/4"	640501012
3/4"	3/8"	64050126
3/4"	1/2"	64050128
3/4"	3/4"	640501212
3/4"	1"	640501216
1"	1/2"	64050168
1"	3/4"	640501612
1"	1"	640501616
1"	1-1/4"	640501620
1-1/4"	3/4"	640502012
1-1/4"	1"	640502016
1-1/4"	1-1/4"	640502020
1-1/2"	1"	640502416
1-1/2"	1-1/4"	640502420
1-1/2"	1-1/2"	640502424
2"	1-1/2"	640503224
2"	2"	640503232

Industry Crossovers: 6405 2216R F50G 1268R C3269

EXPANDED PRODUCT LINE

O-RING FEMALE TO PIPE MALE ADAPTER



O-RING TUBE 1	MALE PIPE THREAD 2	PART #
1/4"	1/8"	640442
1/4"	1/4"	640444
5/16"	1/8"	6404-05-02
3/8"	1/4"	640464
3/8"	3/8"	640466
3/8"	1/2"	640468
1/2"	3/8"	640486
1/2"	1/2"	640488
1/2"	3/4"	6404-08-12
5/8"	1/2"	6404108
5/8"	3/4"	64041012
3/4"	3/4"	64041212
7/8"	3/4"	6404-14-12
1"	1"	64041616
1-1/4"	1-1/4"	64042020
1-1/2"	1-1/2"	64042424

Industry Crossovers: 6404 2246R 1267R C3239 FHG5

NEW PRODUCT LINE

ADJ O-RING HEX NIPPLE



MALE O-RING	MALE O-RING	PART #
1-1/2"	1-1/2"	6403AO24
2	2	6403AO32

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

HYDRAULICS

EXPANDED PRODUCT LINE

O-RING HEX HEAD PLUG

SAE# 090109A



* Not all sizes are solid

O-RING THREAD	PART #
1/8"	6408O2
3/16"	6408O3
1/4"	6408O4
5/16"	6408O5
3/8"	6408O6
3/8"	6408O6S
1/2"	6408O8
5/8"	6408O10
3/4"	6408O12
7/8"	6408O14
1"	6408O16
1"	6408O16S
1-1/4"	6408O20
1-1/2"	6408O24
1-1/2"	6408O24S
2"	6408O32

Industry Crossovers: 6408 900598 P50N 1265 7237

O-RING HOLLOW HEX HEAD PLUG

SAE# 090109B



O-RING TUBE	PART #
1/8"	6408HO2
3/16"	6408HO3
1/4"	6408HO4
5/16"	6408HO5
3/8"	6408HO6
1/2"	6408HO8
5/8"	6408HO10
3/4"	6408HO12
7/8"	6408HO14
1"	6408HO16
1-1/4"	6408HO20
1-1/2"	6408HO24
2"	6408HO32

Industry Crossovers: 6408HHP FF2138 HP50N 1256 7238 6409

EXPANDED PRODUCT LINE

O-RING PORT REDUCER/EXPANDER



O-RING TUBE 1	O-RING TUBE 2	PART #
1/4"	3/8"	6410O46
3/8"	1/4"	6410O64
3/8"	1/2"	6410O68
1/2"	1/4"	6410O84
1/2"	3/8"	6410O86
1/2"	1/2"	6410O88
1/2"	5/8"	6410O810
1/2"	3/4"	6410O812
5/8"	3/4"	6410O1012
3/4"	1/4"	6410O124
3/4"	3/8"	6410O126
3/4"	1/2"	6410O128
3/4"	5/8"	6410O1210
3/4"	3/4"	6410O1212
3/4"	1"	6410O1216
1"	3/8"	6410O166
1"	1/2"	6410O168
1"	5/8"	6410O1610
1"	3/4"	6410O1612
1-1/4"	3/4"	6410O2012
1-1/4"	1"	6410O2016
1-1/2"	3/4"	6410O2412
1-1/2"	1"	6410O2416
1-1/2"	1-1/4"	6410O2420
2"	1"	6410O3216
2"	1-1/4"	6410O3220
2"	1-1/2"	6410O3224

Industry Crossovers: 6410 FF1010 F50G5 1270 7033

TUBE O.D.	THREAD SIZE
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
7/8"	1-3/16-12
1"	1-5/16-12
1-1/4"	1-5/8-12
1-1/2"	1-7/8-12
2"	2-1/2-12

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

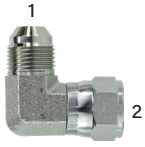
HYDRAULICS

HYDRAULICS

EXPANDED PRODUCT LINE

JIC SWIVEL NUT 90° ELBOW

SAE# 070221
MS# 51521



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	65004
3/8"	1/4"	6500-06-04
3/8"	3/8"	65006
3/8"	1/2"	650068
1/2"	3/8"	650086
1/2"	1/2"	65008
1/2"	3/4"	6500-08-12
5/8"	1/2"	6500108
5/8"	5/8"	650010
3/4"	5/8"	65001210
3/4"	3/4"	650012
3/4"	1"	65001216
1"	1"	650016
1-1/4"	1-1/4"	650020
1-1/2"	1-1/2"	650024
2"	2"	650032

Industry Crossovers: 6500 2071R C6X 1236 G5506

EXPANDED PRODUCT LINE

JIC SWIVEL TO PIPE MALE 90° ELBOW



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/4"	1/8"	650142
1/4"	1/4"	650144
3/8"	1/4"	650164
3/8"	3/8"	650166
3/8"	1/2"	650168
1/2"	3/8"	650186
1/2"	1/2"	650188
1/2"	3/4"	6501812
5/8"	1/2"	6501108
3/4"	3/4"	65011212
1"	1"	65011616
1-1/4"	1-1/4"	65012020
1-1/2"	1-1/2"	65012424
2"	2"	65013232

Industry Crossovers: 6501 2250 1247R TF5406

EXPANDED PRODUCT LINE

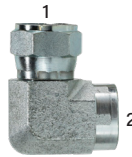
JIC SWIVEL 45° ELBOW

SAE# 070321
MS# 51522



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	65024
3/8"	3/8"	65026
1/2"	1/2"	65028
5/8"	5/8"	650210
3/4"	3/4"	650212
7/8"	7/8"	6502-14-14
1"	1"	650216

JIC SWIVEL TO PIPE FEMALE 90° ELBOW



JIC TUBE SIZE 1	FEMALE PIPE THREAD 2	PART #
1/4"	1/4"	650344
3/8"	1/4"	650364
3/8"	3/8"	650366
1/2"	3/8"	650386
1/2"	1/2"	650388
3/4"	3/4"	65031212

JIC SWIVEL CONNECTOR



JIC TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	650444
3/8"	1/4"	650464
3/8"	3/8"	650466
1/2"	3/8"	650486
1/2"	1/2"	650488
5/8"	5/8"	65041010
3/4"	3/4"	65041212
1"	1"	65041616
1-1/4"	1-1/4"	65042020

Industry Crossovers: 6504 1205

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

EXPANDED PRODUCT LINE

JIC SWIVEL TO PIPE MALE ADAPTER



JIC TUBE SIZE 1	MALE PIPE THREAD 2	PART #
1/8"	1/4"	650524
1/4"	1/8"	650542
1/4"	1/4"	650544
1/4"	3/8"	650546
5/16"	1/4"	650554
5/16"	3/8"	650556
3/8"	1/8"	650562
3/8"	1/4"	650564
3/8"	3/8"	650566
1/2"	3/8"	650586
1/2"	1/2"	650588
5/8"	3/8"	6505-10-06
5/8"	1/2"	6505108
3/4"	1/2"	6505128
3/4"	3/4"	65051212
1"	3/4"	65051612
1"	1"	65051616
1-1/2"	1-1/2"	65052424
2"	2"	65063232

Industry Crossovers: 6505 2018 F6X 1211 9100R

EXPANDED PRODUCT LINE

JIC SWIVEL TO PIPE FEMALE ADAPTER



JIC TUBE SIZE 1	FEMALE PIPE THREAD 2	PART #
1/4"	1/8"	650642
1/4"	1/4"	650644
3/8"	1/4"	650664
3/8"	3/8"	650666
3/8"	1/2"	650668
1/2"	3/8"	650686
1/2"	1/2"	650688
5/8"	3/8"	6506106
5/8"	1/2"	6506108
5/8"	3/4"	65061012
3/4"	1/2"	6506128
3/4"	3/4"	65061212
1"	1"	65061616
1-1/4"	1-1/4"	65062020
1-1/2"	1-1/2"	65062424
2"	2"	65063232

Industry Crossovers: 6506 2242 1215

⚠️ **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

TUBE O.D.	THREAD SIZE
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
7/8"	1-3/16-12
1"	1-5/16-12
1-1/4"	1-5/8-12
1-1/2"	1-7/8-12
2"	2-1/2-12

HYDRAULICS

EXPANDED PRODUCT LINE

JIC SWIVEL BRANCH TEE

SAE# 070433
MS# 51524



JIC TUBE SIZE 1	JIC TUBE SIZE 2	JIC FEMALE TUBE 3	PART #
1/4"	1/4"	1/4"	660044
5/16"	5/16"	5/16"	660055
3/8"	3/8"	3/8"	660066
3/8"	3/8"	1/2"	660068
1/2"	1/2"	1/2"	660088
5/8"	5/8"	5/8"	660010
3/4"	3/4"	3/4"	660012
1"	1"	1"	660016
1-1/4"	1-1/4"	1-1/4"	660020
1-1/2"	1-1/2"	1-1/2"	660024
2"	2"	2"	6600-32-32-32

Industry Crossovers: 6600 203101R 55X 1227 C5707

EXPANDED PRODUCT LINE

JIC SWIVEL RUN TEE

SAE# 070432
MS# 51523



JIC TUBE SIZE 1	JIC FEMALE TUBE 2	JIC TUBE SIZE 3	PART #
1/4"	1/4"	1/4"	66024
5/16"	5/16"	5/16"	66025
3/8"	3/8"	3/8"	66026
1/2"	1/2"	1/2"	66028
5/8"	5/8"	5/8"	660210
3/4"	3/4"	3/4"	660212
7/8"	7/8"	7/8"	660214
1"	1"	1/2"	6602-16-16-08
1"	1"	1"	660216
1-1/4"	1-1/4"	1-1/4"	660220
1-1/2"	1-1/2"	1-1/2"	660224
2"	2"	2"	6602-32-32-32

Industry Crossovers: 6602 203102R R6X 1248 C5706

EXPANDED PRODUCT LINE

JIC TO O-RING RUN TEE

SAE# 070428
MS# 51530



JIC TUBE SIZE 1	O-RING TUBE SIZE 2	JIC TUBE SIZE 3	PART #
1/4"	1/4"	1/4"	6804NWO4
1/4"	1/8"	1/4"	6804NWO42
5/16"	5/16"	5/16"	6804NWO5
3/8"	3/8"	3/8"	6804NWO6
3/8"	3/8"	1/2"	6804NWO68
1/2"	1/2"	1/2"	6804NWO8
5/8"	5/8"	5/8"	6804NWO10
3/4"	3/4"	3/4"	6804NWO12
1"	1"	1"	6804NWO16
1-1/4"	1-1/4"	1-1/4"	6804NWO20
1-1/2"	1-1/2"	1-1/2"	6804NWO24

Industry Crossovers: 6804 203005R R50X 1266R C5716

NEW PRODUCT LINE

JIC TO O-RING LONG ELBOW CONNECTOR

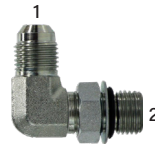


JIC TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
3/8"	3/8"	6801LNWO6
3/8"	1/2"	6801LNWO68

EXPANDED PRODUCT LINE

JIC TO O-RING 90° ELBOW CONNECTOR

SAE# 070220
MS# 51527



JIC TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/8"	1/8"	6801NWO2
1/4"	3/16"	6801NWO43
1/4"	1/4"	6801NWO4
1/4"	3/8"	6801NWO46
1/4"	1/2"	6801NWO48
5/16"	1/4"	6801NWO54
3/8"	1/4"	6801NWO64
3/8"	3/8"	6801NWO6
3/8"	1/2"	6801NWO68
3/8"	5/8"	6801NWO610
3/8"	3/4"	6801NWO612
1/2"	1/4"	6801NWO84
1/2"	3/8"	6801NWO86
1/2"	1/2"	6801NWO8
1/2"	5/8"	6801NWO810
1/2"	3/4"	6801NWO812
1/2"	1"	6801NWO816
5/8"	3/8"	6801NWO106
5/8"	1/2"	6801NWO108
5/8"	5/8"	6801NWO10
5/8"	1"	6801NWO1016
3/4"	1/2"	6801NWO128
3/4"	5/8"	6801NWO1210
3/4"	3/4"	6801NWO12
3/4"	7/8"	6801NWO1214
3/4"	1"	6801NWO1216
1"	3/4"	6801NWO1612
1"	7/8"	6801NWO1614
1"	1"	6801NWO16
1"	1-1/4"	6801NWO1620
1"	1-1/2"	6801NWO1624
1-1/4"	3/4"	6801NWO2012
1-1/4"	1"	6801NWO2016
1-1/4"	1-1/4"	6801NWO20
1-1/4"	1-1/2"	6801NWO2024
1-1/2"	1-1/4"	6801NWO2420
1-1/2"	1-1/2"	6801NWO24
2"	2"	6801NWO32

Industry Crossovers: 6801 2062R C50X 1238L C5515

NEW PRODUCT LINE

JIC TO O-RING X-LONG 90° ELBOW CONNECTOR



JIC TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/2"	5/8"	6801LLNWO810

NEW PRODUCT LINE

JIC TO O-RING XX-LONG ELBOW CONNECTOR



JIC TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/2"	1/2"	6801LLLNWO8
5/8"	5/8"	6801LLLNWO10

⚠ 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

EXPANDED PRODUCT LINE

JIC TO O-RING BRANCH TEE

SAE# 070429
MS# 51529



JIC TUBE SIZE 1	JIC TUBE SIZE 2	O-RING TUBE SIZE 3	PART #
1/8"	1/8"	1/8"	6803NWO2
1/4"	1/4"	1/4"	6803NWO4
3/8"	3/8"	3/8"	6803NWO6
3/8"	3/8"	1/2"	6803NWO68
1/2"	1/2"	1/2"	6803NWO8
1/2"	1/2"	5/8"	6803NWO810
5/8"	5/8"	5/8"	6803NWO10
3/4"	3/4"	3/4"	6803NWO12
1"	1"	1"	6803NWO16
1-1/4"	1-1/4"	1-1/4"	6803NWO20
2"	2"	2"	6803NWO32

Industry Crossovers: 6803 203003X S50X 1265R C5715

EXPANDED PRODUCT LINE

O-RING TO PIPE FEMALE 90° ELBOW



O-RING TUBE SIZE 1	PIPE TUBE SIZE 2	PART #
1/4"	1/8"	6805NWO42
1/4"	1/4"	6805NWO44
5/16"	1/8"	6805NWO52
3/8"	1/4"	6805NWO64
3/8"	3/8"	6805NWO66
1/2"	3/8"	6805NWO86
1/2"	1/2"	6805NWO88
5/8"	1/2"	6805NWO108
3/4"	1/2"	6805NWO128
3/4"	3/4"	6805NWO1212
7/8"	3/4"	6805NWO1412
1"	1"	6805NWO1616
1-1/4"	1-1/4"	6805NWO2020
1-1/2"	1-1/2"	6805NWO2424

Industry Crossovers: 6805 206801R AEOG 1264 C3459

EXPANDED PRODUCT LINE

JIC TO O-RING 45° ELBOW

SAE# 070320
MS# 51528

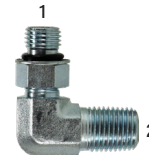


JIC TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/8"	1/8"	6802NWO2
1/4"	1/4"	6802NWO4
1/4"	3/8"	6802NWO46
1/4"	1/2"	6802NWO48
3/8"	3/8"	6802NWO6
3/8"	1/2"	6802NWO68
3/8"	5/8"	6802NWO610
1/2"	1/2"	6802NWO8
1/2"	3/8"	6802NWO86
1/2"	5/8"	6802NWO810
1/2"	3/4"	6802NWO812
5/8"	5/8"	6802NWO10
5/8"	1/2"	6802NWO108
5/8"	3/4"	6802NWO1012
3/4"	5/8"	6802NWO1210
3/4"	3/4"	6802NWO12
3/4"	1"	6802NWO1216
7/8"	7/8"	6802NWO14
1"	1"	6802NWO16
1"	3/4"	6802NWO1612
1"	1-1/4"	6802NWO1620
1-1/4"	1-1/4"	6802NWO20
1-1/4"	1"	6802NWO2016
1-1/2"	1-1/2"	6802NWO24
2"	2"	6802NWO32

Industry Crossovers: 6802 2061 V50X 1240R C5365

EXPANDED PRODUCT LINE

O-RING TO PIPE MALE 90° ELBOW



O-RING TUBE SIZE 1	PIPE TUBE SIZE 2	PART #
1/4"	1/4"	6806NWO44
5/16"	1/8"	6806NWO52
3/8"	3/8"	6806NWO66
3/8"	1/2"	6806NWO68
1/2"	3/8"	6806NWO86
1/2"	1/2"	6806NWO88
3/4"	3/4"	6806NWO1212
1"	1"	6806NWO1616
1-1/2"	1-1/2"	6806NWO2424
2"	2"	6806NWO3232

Industry Crossovers: 6806 1263 TF3569

EXPANDED PRODUCT LINE

37° JIC SWIVEL NUT TO O-RING 90° ELBOW



O-RING TUBE SIZE 1	JIC TUBE SIZE 2	PART #
1/4"	1/4"	6809NWO44
3/8"	3/8"	6809NWO66
1/2"	1/2"	6809NWO88
3/4"	3/4"	6809NWO1212
1-1/4"	1-1/4"	6809NWO2020

NEW PRODUCT LINE

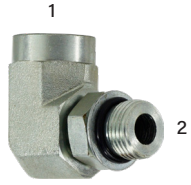
MAORB TO MAORB 90° ELBOW



O-RING TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/2"	1/2"	6807NWO88
1"	1"	6807NWO1616
1-1/4"	1-1/4"	6807NWO2020

⚠️ 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 O-RING TO MALE O-RING 90° ELBOW



O-RING TUBE SIZE 1	O-RING TUBE SIZE 2	PART #
1/4"	1/4"	6815NWO44
3/8"	3/8"	6815NWO66
1/2"	1/2"	6815NWO88
5/8"	5/8"	6815NWO1010
3/4"	3/4"	6815NWO1212

EXPANDED PRODUCT LINE

O-RING SWIVEL 90° ADAPTER

SAE# 140257



O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	PART #
1/4"	1/8"	6901NWO42
1/4"	1/4"	6901NWO44
3/8"	1/4"	6901NWO64
3/8"	3/8"	6901NWO66
3/8"	1/2"	6901NWO68
1/2"	1/4"	6901NWO84
1/2"	3/8"	6901NWO86
1/2"	1/2"	6901NWO88
1/2"	3/4"	6901NWO812
5/8"	1/4"	6901NWO104
5/8"	3/8"	6901NWO106
5/8"	1/2"	6901NWO108
3/4"	3/8"	6901NWO126
3/4"	1/2"	6901NWO128
3/4"	3/4"	6901NWO1212
1"	3/4"	6901NWO1612
1"	1"	6901NWO1616
1-1/4"	3/4"	6901NWO2012
1-1/4"	1"	6901NWO2016
1-1/4"	1-1/4"	6901NWO2020
1-1/2"	1-1/2"	6901NWO2424
2"	2"	6901NWO3232

Industry Crossovers: 6401 2068R 1271 9515

EXPANDED PRODUCT LINE

O-RING SWIVEL MALE ADAPTER

SAE# 140157



O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	PART #
1/4"	1/8"	6900O42
1/4"	1/4"	6900O44
1/4"	3/8"	6900O46
1/4"	1/2"	6900O48
5/16"	1/4"	6900O54
3/8"	1/4"	6900O64
3/8"	3/8"	6900O66
3/8"	1/2"	6900O68
1/2"	1/4"	6900O84
1/2"	3/8"	6900O86
1/2"	1/2"	6900O88
1/2"	3/4"	6900O812
5/8"	1/4"	6900O104
5/8"	3/8"	6900O106
5/8"	1/2"	6900O108
5/8"	3/4"	6900O1012
3/4"	3/8"	6900O126
3/4"	1/2"	6900O128
3/4"	3/4"	6900O1212
1"	3/4"	6900O1612
1"	1"	6900O1616
1"	1-1/4"	6900O1620

Industry Crossovers: 6900 2066R 1235 9315

EXPANDED PRODUCT LINE

O-RING SWIVEL 45° ADAPTER

SAE# 140357



O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	PART #
1/4"	1/8"	6902NWO42
1/4"	1/4"	6902NWO44
1/4"	3/8"	6902NWO46
3/8"	1/4"	6902NWO64
3/8"	3/8"	6902NWO66
3/8"	1/2"	6902NWO68
1/2"	1/4"	6902NWO84
1/2"	3/8"	6902NWO86
1/2"	1/2"	6902NWO88
5/8"	1/2"	6902NWO108
5/8"	3/4"	6902NWO1012
3/4"	1/2"	6902NWO128
3/4"	3/4"	6902NWO1212
1"	1"	6902NWO1616
1-1/4"	1-1/4"	6902NWO2020

Industry Crossovers: 6902 2067R 1272 9365

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

VITON 75 SAE BOSS O-RING



Fluorocarbon

O-RING TUBE	PART #
1/8"	400122
1/4"	400144
3/8"	400166
1/2"	400188
5/8"	400110
3/4"	400112
1"	400116
1-1/4"	400120
1-1/2"	400124
2-1/2"	400132

NITRILE 90 SAE BOSS O-RING



O-RING TUBE	PART #
1/8"	400022
3/16"	400133
1/4"	400044
5/16"	400155
3/8"	400066
1/2"	400088
5/8"	400010
3/4"	400012
7/8"	400014
1"	400016
1-1/4"	400020
1-1/2"	400024
2"	400032

EXPANDED PRODUCT LINE

BRAZE TUBE NUT (SLEEVE REQUIRED)

SAE# 520110



TUBE O.D.	BRAZE TUBE O.D.	PART #
1/4"	.25	FSO3184
3/8"	.38	FSO3186
1/2"	.50	FSO3188
5/8"	.62	FSO31810
3/4"	.72	FSO31812
1"	1.00	FSO31816
1 1/4"	1.25	FSO31820
1 1/2"		FSO31824

Industry Crossovers: FF318 FF1311

EXPANDED PRODUCT LINE

BRAZE TUBE SLEEVE

SAE# 520115



TUBE O.D.	PART #
1/4"	FSO3194
3/8"	FSO3196
1/2"	FSO3198
5/8"	FSO31910
3/4"	FSO31912
1"	FSO31916
1-1/4"	FSO31920
1-1/2"	FSO31924

Industry Crossovers: FF319 FF3019

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

HYDRAULICS

CAP

SAE# 520112



* Two Piece Nut / Insert

TUBE O.D.	FACE SEAL TUBE	PART #
1/4"	1/4"	FSO304C4
3/8"	3/8"	FSO304C6
1/2"	1/2"	FSO304C8
5/8"	5/8"	FSO304C10
3/4"	3/4"	FSO304C12
1"	1"	FSO304C16
1-1/4"	1-1/4"	FSO304C20
1-1/2"	1-1/2"	FSO304C24

Industry Crossovers: FF304C

O-RING FACE SEAL MALE ADAPTER



FACE SEAL TUBE 1	MALE PIPE SIZE 2	PART #
1/4"	1/8"	FSO240442
1/4"	1/4"	FSO240444
1/4"	3/8"	FSO240446
3/8"	1/8"	FSO240462
3/8"	1/4"	FSO240464
3/8"	3/8"	FSO240466
3/8"	1/2"	FSO240468
1/2"	1/4"	FSO240484
1/2"	3/8"	FSO240486
1/2"	1/2"	FSO240488
5/8"	1/2"	FSO2404108
5/8"	3/4"	FSO24041012
3/4"	1/2"	FSO2404128
3/4"	3/4"	FSO24041212
3/4"	1"	FSO24041216
1"	3/4"	FSO24041612
1"	1"	FSO24041616
1"	1-1/4"	FSO24041620
1-1/4"	1"	FSO24042016
1-1/4"	1-1/4"	FSO24042020
1-1/2"	1-1/2"	FSO24042424

Industry Crossovers: FF2404 4205 FLO

HYDRAULICS

EXPANDED PRODUCT LINE

BULKHEAD LOCKNUT

SAE# 520118



TUBE SIZE	PART #
1/4"	FSO3064
3/8"	FSO3066
1/2"	FSO3068
5/8"	FSO30610
3/4"	FSO30612
1"	FSO30616
1-1/4"	FSO30620
1-1/2"	FSO30624

MALE UNION CONNECTOR

SAE# 520102



TUBE O.D.	FACE SEAL TUBE 1&2	PART #
1/4"	1/4"	FSO240344
3/8"	3/8"	FSO240366
1/2"	1/2"	FSO240388
3/4"	3/4"	FSO24031212
1"	1"	FSO24031616
1-1/4"	1-1/4"	FSO24032020
1-1/2"	1-1/2"	FSO24032424

Industry Crossovers: FF2403 FF1203

EXPANDED PRODUCT LINE

FEMALE ORFS TO MALE ORFS REDUCER



FEMALE FACE SEAL SIZE 1	MALE FACE SEAL TUBE 2	PART #
3/8"	1/4"	FSO240664
1/2"	1/4"	FSO240684
1/2"	3/8"	FSO240686
5/8"	3/8"	FSO2406106
5/8"	1/2"	FSO2406108
3/4"	3/8"	FSO2406126
3/4"	1/2"	FSO2406128
1"	1/2"	FSO2406168
1"	3/4"	FSO24061612
1-1/4"	3/4"	FSO24062012
1-1/4"	1"	FSO24062016
1-1/2"	1-1/4"	FSO24062420

Industry Crossovers: 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

PLUG

SAE# 520109



TUBE O.D.	PART #
1/4"	FSO24084
3/8"	FSO24086
1/2"	FSO24088
5/8"	FSO240810
3/4"	FSO240812
1"	FSO240816
1-1/4"	FSO240820
1-1/2"	FSO240824

Industry Crossovers: FF2408 FF1254 4229 PNLO

EXPANDED PRODUCT LINE

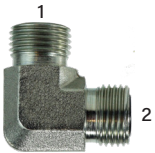
MORFS UNION



JIC TUBE 1	JIC TUBE 2	PART #
1/4"	1/4"	FS240344
3/8"	1/4"	FS240364
1/2"	1/2"	FS240388

EXPANDED PRODUCT LINE

ORFS UNION 90° ELBOW



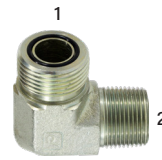
FACE SEAL TUBE 1	FACE SEAL TUBE 2	PART #
1/4"	1/4"	FS250044
3/8"	3/8"	FS250066
1/2"	1/2"	FS250088
5/8"	5/8"	FS25001010
3/4"	3/4"	FS25001212
1"	1"	FS25001616
1-1/4"	1-1/4"	FS25002020
1-1/2"	1-1/2"	FS25002424

Industry Crossovers: FF2500 4505 ELO

EXPANDED PRODUCT LINE

ORFS TO MALE 90° ELBOW

SAE# 520202



FACE SEAL TUBE 1	MALE PIPE TUBE 2	PART #
1/4"	1/8"	FS250142
1/4"	1/4"	FS250144
3/8"	1/4"	FS250164
3/8"	3/8"	FS250166
1/2"	3/8"	FS250186
1/2"	1/2"	FS250188
1/2"	3/4"	FS2501812
5/8"	1/2"	FS2501108
5/8"	3/4"	FS25011012
3/4"	1/2"	FS2501128
3/4"	3/4"	FS25011212
3/4"	1"	FS25011216
1"	3/4"	FS25011612
1"	1"	FS25011616
1-1/4"	1"	FS25012016
1-1/4"	1-1/4"	FS25012020
1-1/2"	1-1/2"	FS25012424

Industry Crossovers: FF2501 FF1208 4405 CLO

EXPANDED PRODUCT LINE

ORFS TO PIPE 45° ELBOW



FACE SEAL TUBE 1	MALE PIPE TUBE 2	PART #
1/4"	1/8"	FS250342
1/4"	1/4"	FS250344
3/8"	1/4"	FS250364
3/8"	3/8"	FS250366
1/2"	3/8"	FS250386
1/2"	1/2"	FS250388
3/4"	3/4"	FS25031212
1"	1"	FS25031616
1-1/4"	1-1/4"	FS25032020

Industry Crossovers: FF2503 4355 VLO

▲ 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

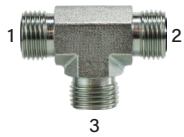
ORFS TO PIPE BRANCH TEE



FACE SEAL THREAD 1	FACE SEAL THREAD 2	MALE PIPE SIZE 3	PART #
1/4"	1/4"	1/4"	FS260144
3/8"	3/8"	3/8"	FS260166
1/2"	1/2"	1/2"	FS260188
3/4"	3/4"	3/4"	FS26011212
1"	1"	1"	FS26011616

Industry Crossovers: FF2601

ORFS UNION TEE



FACE SEAL TUBE 1	FACE SEAL TUBE 2	FACE SEAL TUBE 3	PART #
1/4"	1/4"	1/4"	FS260344
3/8"	3/8"	3/8"	FS260366
1/2"	1/2"	1/2"	FS260388
3/4"	3/4"	3/4"	FS26031212
1"	1"	1"	FS26031616
1-1/4"	1-1/4"	1-1/4"	FS26032020
1-1/2"	1-1/2"	1-1/2"	FS26032424

EXPANDED PRODUCT LINE

ORFS BULKHEAD UNION



FACE SEAL THREAD 1	FACE SEAL THREAD 2	PART #
1/4"	1/4"	FS270044
3/8"	3/8"	FS270066
1/2"	1/2"	FS270088
3/4"	3/4"	FS27001212
1"	1"	FS27001616
1-1/4"	1-1/4"	FS27002020
1-1/2"	1-1/2"	FS27002424

* Locknut NOT Included on Bulkhead Fittings

Industry Crossovers: FF2700 WLO

EXPANDED PRODUCT LINE

ORFS BULKHEAD 90° UNION ELBOW



FACE SEAL THREAD 1	FACE SEAL THREAD 2	PART #
1/4"	1/4"	FS270144
3/8"	3/8"	FS270166
1/2"	1/2"	FS270188
3/4"	3/4"	FS27011212
1"	1"	FS27011616
1-1/4"	1-1/4"	FS27012020
1-1/2"	1-1/2"	FS27012424

* Locknut NOT Included on Bulkhead Fittings

Industry Crossovers: FF2701 4525 WELO

EXPANDED PRODUCT LINE

ORFS BULKHEAD 45° UNION

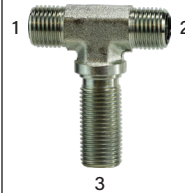


FACE SEAL THREAD 1	FACE SEAL THREAD 2	PART #
1/4"	1/4"	FS270244
3/8"	3/8"	FS270266
1"	1"	FS27021616
1-1/4"	1-1/4"	FS27022020

* Locknut NOT Included on Bulkhead Fittings

Industry Crossovers: FF2702 4375 WNLO

ORFS BULKHEAD UNION BRANCH TEE



FACE SEAL THREAD 1	FACE SEAL THREAD 2	FACE SEAL THREAD 3	PART #
1/4"	1/4"	1/4"	FS27034
3/8"	3/8"	3/8"	FS27036
1/2"	1/2"	1/2"	FS27038
3/4"	3/4"	3/4"	FS270312
1"	1"	1"	FS270316
1-1/4"	1-1/4"	1-1/4"	FS270320

* Locknut NOT Included on Bulkhead Fittings

Industry Crossovers: FF2703 WJLO

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

HYDRAULICS

EXPANDED PRODUCT LINE

ORFS BULKHEAD UNION RUN TEE



FACE SEAL THREAD 1	FACE SEAL THREAD 2	FACE SEAL THREAD 3	PART #
1/4"	1/4"	1/4"	FS270444
3/8"	3/8"	3/8"	FS270466
1/2"	1/2"	1/2"	FS270488
3/4"	3/4"	3/4"	FS27041212
1"	1"	1"	FS27041616
1-1/4"	1-1/4"	1-1/4"	FS27042020

* Locknut NOT Included on Bulkhead Fittings

Industry Crossovers: FF2704 WJJLO

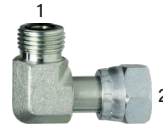
MALE FLAT FACE TO FEMALE 37° JIC SWIVEL



FACE SEAL TUBE 1	JIC TUBE 2	PART #
1/4"	1/4"	FS640244
3/8"	3/8"	FS640266
1/2"	1/2"	FS640288
5/8"	5/8"	FS64021010
3/4"	3/4"	FS64021212
1"	1"	FS64021616

Industry Crossovers: FF6402 FF1294

SWIVEL NUT 90° ELBOW



FACE SEAL TUBE 1	FACE SEAL TUBE 2	PART #
1/4"	1/4"	FS650044
3/8"	3/8"	FS650066
1/2"	1/2"	FS650088
5/8"	5/8"	FS65001010
3/4"	3/4"	FS65001212
1"	1"	FS65001616
1-1/4"	1-1/4"	FS65002020
1-1/2"	1-1/2"	FS65002424

Industry Crossovers: FF6500 FF1236

EXPANDED PRODUCT LINE

MALE ORFS TO ORB CONNECTOR

SAE# 520120



FACE SEAL TUBE 1	O-RING TUBE 2	PART #
1/4"	1/4"	FS6400044
1/4"	3/8"	FS6400046
3/8"	1/4"	FS6400064
3/8"	3/8"	FS6400066
3/8"	1/2"	FS6400068
1/2"	3/8"	FS6400086
1/2"	1/2"	FS6400088
1/2"	5/8"	FS64000810
1/2"	3/4"	FS64000812
5/8"	1/2"	FS64000108
5/8"	5/8"	FS640001010
5/8"	3/4"	FS640001012
3/4"	1/2"	FS64000128
3/4"	5/8"	FS640001210
3/4"	3/4"	FS640001212
3/4"	1"	FS640001216
1"	3/4"	FS640001612
1"	1"	FS640001616
1"	1-1/4"	FS640001620
1-1/4"	1-1/4"	FS640002020
1-1/4"	1-1/2"	FS640002024
1-1/2"	1-1/2"	FS640002424

Industry Crossovers: 4315 FF6400 FF1231

EXPANDED PRODUCT LINE

MALE 37° JIC FLARE TO FLAT FACE FEMALE SWIVEL



JIC TUBE SIZE 1	FACE SEAL TUBE 2	PART #
1/4"	1/4"	FS650444
3/8"	3/8"	FS650466
1/2"	1/2"	FS650488
5/8"	5/8"	FS65041010
3/4"	3/4"	FS65041212
1"	1"	FS65041616
1-1/4"	1-1/4"	FS65042020

Industry Crossovers: FF6504 FF1296

NEW PRODUCT LINE

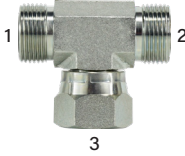
FLAT FACE O-RING TO FLAT FACE O-RING



FACE SEAL TUBE SIZE 1	FACE SEAL TUBE SIZE 2	PART #
3/4"	3/4"	FS65101212
1"	1"	FS65101616

⚠ 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

ORFS TO SWIVEL FEMALE BRANCH TEE

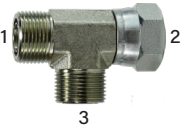


FACE SEAL THREAD 1	FACE SEAL THREAD 2	FEMALE JIC 3	PART #
1/4"	1/4"	1/4"	FS660044
3/8"	3/8"	3/8"	FS660066
1/2"	1/2"	1/2"	FS660088
3/4"	3/4"	3/4"	FS66001212
1"	1"	1"	FS66001616
1-1/4"	1-1/4"	1-1/4"	FS66002020
1-1/2"	1-1/2"	1-1/2"	FS66002424

Industry Crossovers: FF6600 S6LO

EXPANDED PRODUCT LINE

ORFS TO JIC SWIVEL RUN TEE



FACE SEAL THREAD 1	FEMALE FACE SEAL 2	FACE SEAL THREAD 3	PART #
1/4"	1/4"	1/4"	FS660244
3/8"	3/8"	3/8"	FS660266
1/2"	1/2"	1/2"	FS660288
3/4"	3/4"	3/4"	FS66021212
1"	1"	1"	FS66021616
1-1/4"	1-1/4"	1-1/4"	FS66022020
1-1/2"	1-1/2"	1-1/2"	FS66022424

Industry Crossovers: FF6602 R6LO

TUBE O.D.	THREAD SIZE
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
7/8"	1-3/16-12
1"	1-5/16-12
1-1/4"	1-5/8-12
1-1/2"	1-7/8-12
2"	2-1/2-12

EXPANDED PRODUCT LINE

O-RING 90° ELBOW CONNECTOR



FACE SEAL TUBE 1	O-RING TUBE 2	PART #
1/4"	1/4"	FS680144
1/4"	3/8"	FS680146
3/8"	1/4"	FS680164
3/8"	3/8"	FS680166
3/8"	1/2"	FS680168
1/2"	3/8"	FS680186
1/2"	1/2"	FS680188
1/2"	5/8"	FS6801810
1/2"	3/4"	FS6801812
5/8"	1/2"	FS6801108
5/8"	5/8"	FS68011010
5/8"	3/4"	FS68011012
3/4"	5/8"	FS68011210
3/4"	3/4"	FS68011212
3/4"	1"	FS68011216
1"	3/4"	FS68011612
1"	1"	FS68011616
1"	1-1/4"	FS68011620
1-1/4"	1"	FS68012016
1-1/4"	1-1/4"	FS68012020
1-1/2"	1-1/2"	FS68012424

Industry Crossovers: FF6801 FF1238 4515

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

HYDRAULICS

EXPANDED PRODUCT LINE

ORFS TO O-RING 45° ELBOW



FACE SEAL TUBE 1	O-RING SIZE 2	PART #
1/4"	1/4"	FS680244
3/8"	1/4"	FS680264
3/8"	3/8"	FS680266
3/8"	5/8"	FS6802610
1/2"	3/8"	FS680286
3/8"	1/2"	FS680268
1/2"	1/2"	FS680288
1/2"	5/8"	FS6802810
5/8"	5/8"	FS68021010
3/4"	3/4"	FS68021212
1"	1"	FS68021616
1-1/4"	1-1/4"	FS68022020
1-1/2"	1-1/2"	FS68022424

Industry Crossovers: FF6802 4365 V5OLO

ORFS TO O-RING RUN TEE

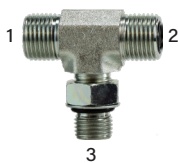


FACE SEAL SIZE 1	O-RING SIZE 2	FACE SEAL SIZE 3	PART #
1/4"	1/4"	1/4"	FS680444
3/8"	3/8"	3/8"	FS680466
1/2"	1/2"	1/2"	FS680488
3/4"	3/4"	3/4"	FS68041212
1"	1"	1"	FS68041616
1-1/4"	1-1/4"	1-1/4"	FS68042020
1-1/2"	1-1/2"	1-1/2"	FS68042424

Industry Crossovers: FF6804 4716 KJOLO

EXPANDED PRODUCT LINE

ORFS TO O-RING BRANCH TEE

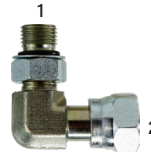


FACE SEAL THREAD 1	FACE SEAL THREAD 2	O-RING SIZE 3	PART #
1/4"	1/4"	1/4"	FS680344
3/8"	3/8"	3/8"	FS680366
1/2"	1/2"	1/2"	FS680388
5/8"	5/8"	5/8"	FS68031010
3/4"	3/4"	3/4"	FS68031212
1"	1"	1"	FS68031616
1-1/4"	1-1/4"	1-1/4"	FS68032020
1-1/2"	1-1/2"	1-1/2"	FS68032424

Industry Crossovers: FF6803 4715 SJOLO

EXPANDED PRODUCT LINE

STRAIGHT THREAD SWIVEL NUT 90° ELBOW



O-RING TUBE 1	FACE SEAL THREAD 2	PART #
1/4"	1/4"	FS680944
3/8"	3/8"	FS680966
1/2"	1/2"	FS680988
5/8"	5/8"	FS68091010
3/4"	3/4"	FS68091212
1"	1"	FS68091616

Industry Crossovers: FF6809 FF1239 4535 AOELC

⚠️ 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

EXPANDED PRODUCT LINE

JIC TO BSPT MALE CONNECTOR

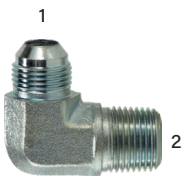


JIC TUBE SIZE 1	MALE BSPT 2	PART #
1/4"	1/8-28	700042
1/4"	1/4-19	700044
3/8"	1/4-19	700064
3/8"	3/8-19	700066
3/8"	1/2-14	700068
1/2"	3/8-19	700086
1/2"	1/2-14	700088
1/2"	3/4-14	7000812
5/8"	1/2-14	7000108
5/8"	3/4-14	70001012
3/4"	1/2-14	7000128
3/4"	3/4-14	70001212
1"	1-11	70001616
1-1/4"	1-1/4-11	70002020

Industry Crossovers: 3404 305

EXPANDED PRODUCT LINE

JIC TO BSPT MALE 90° ELBOW



JIC TUBE SIZE 1	MALE BSPT 2	PART #
1/4"	1/8-28	720042
1/4"	1/4-19	720044
5/16"	1/8-28	720052
5/16"	1/4-19	720054
3/8"	1/4-19	720064
3/8"	3/8-19	720066
3/8"	1/2-14	720068
1/2"	3/8-19	720086
1/2"	1/2-14	720088
5/8"	1/2-14	7200108
3/4"	3/4-14	72001212
1"	1-11	72001616
1-1/4"	1-1/4-11	72002020

Industry Crossovers: 3501 315

EXPANDED PRODUCT LINE

BSPT HEX NIPPLE



MALE BSPT 1	MALE BSPT 2	PART #
1/8-28	1/8-28	752022
1/4-19	1/4-19	752044
3/8-19	3/8-19	752066
1/2-14	1/2-14	752088
5/8-14	5/8-14	75201010
3/4-14	3/4-14	75201212
1-11	1-11	75201616

Industry Crossovers: 3520 MBT

EXPANDED PRODUCT LINE

BSPT PLUG



BSPT	PART #
1/8-28	95082
1/4-19	95084
3/8-19	95086
1/2-14	95088
3/4-14	950812
1-11	950816

Industry Crossovers: 100B-Y KA-RM MHL 296

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

BSPP HEX NIPPLE



MALE BSPP 1	MALE BSPP 2	PART #
1/8-28	1/8-28	742022
1/4-19	1/8-28	742042
3/8-19	1/4-19	742064
3/8-19	3/8-19	742066
1/2-14	3/8-19	742086
1/2-14	1/2-14	742088
5/8-14	1/2-14	7420108
3/4-14	1/2-14	7420128
3/4-14	3/4-14	74201212
1-11	3/4-14	74201612
1-11	1-11	74201616

Industry Crossovers: 3420 MB 9022

EXPANDED PRODUCT LINE

BSPP TO PIPE MALE NIPPLE



MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2	PART #
1/8-28	1/8"	78252
1/4-19	1/4"	78254
1/4-19	3/8"	782546
3/8-19	3/8"	78256
1/2-14	1/2"	78258
3/4-14	3/4"	782512
1-11	1"	782516
1-1/4-11	1-1/4"	782520
2-11	2"	78253232
2-1/2-11	2-1/2"	78254040

Industry Crossovers: MBMP 3825

HYDRAULICS

EXPANDED PRODUCT LINE

BSPP COUPLING



BSPP	PART #
1/8-28	74252
1/4-19	74254
1/2-14	74258
5/8-14	742510
3/4-14	742512
1-11	742516

Industry Crossovers: 3425 FB

EXPANDED PRODUCT LINE

JIC TO STRAIGHT BSPP FEMALE SWIVEL



JIC TUBE SIZE 1	FEMALE BSPP SWIVEL 2	PART #
1/4"	1/4-19	72404
3/8"	3/8-19	72406
1/2"	1/2-14	72408
5/8"	5/8-14	724010
3/4"	3/4-14	724012
1"	1-11	724016
1-1/4"	1-11	72402016
1-1/4"	1-1/4-11	72402020
1-1/2"	1-1/2-11	72402424

Industry Crossovers: 3240 MJFBS

EXPANDED PRODUCT LINE

JIC TO BSPP MALE CONNECTOR

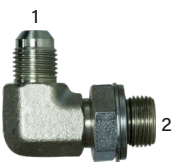


JIC TUBE SIZE 1	MALE BSPP 2	PART #
1/4"	1/8-28	700242
1/4"	1/4-19	700244
1/4"	3/8-19	700246
1/4"	1/2-14	700248
3/8"	1/4-19	700264
3/5	3/8-19	700266
3/5	1/2-14	700268
1/2"	3/8-19	700286
1/2"	1/2-14	700288
1/2"	3/4-14	7002812
5/8"	1/2-14	7002108
3/4"	3/4-14	70021212
3/4"	1-11	70021216
1"	1-11	70021616
1"	2-11	70021620
1-1/4"	1-11	70022016
1-1/4"	1-1/4-11	70022020

Industry Crossovers: 30J 3800

EXPANDED PRODUCT LINE

JIC TO BSPP MALE 90° ELBOW



JIC TUBE SIZE 1	MALE BSPP 2	PART #
1/4"	1/8-28	7202NWO42
1/4"	1/4-19	7202NWO44
3/8"	1/4-19	7202NWO64
3/8"	3/8-19	7202NWO66
3/8"	1/2-14	7202NWO68
1/2"	3/8-19	7202NWO86
1/2"	1/2-14	7202NWO88
1/2"	3/4-14	7202NWO812
5/8"	1/2-14	7202NWO108
3/4"	3/4-14	7202NWO1212
3/4"	1-11	7202NWO1216
1"	1-11	7202NWO1616
1-1/2"	1-1/2-11	7202NWO2424

Industry Crossovers: 3801 315

▲ 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

EXPANDED PRODUCT LINE

JIC TO STRAIGHT BSPP SWIVEL



JIC TUBE SIZE 1	MALE BSPP 2	PART #
1/4"	1/8-28	702242
1/4"	1/4-19	702244
3/8"	1/4-19	702264
3/8"	3/8-19	702266
1/2"	1/2-14	702288
5/8"	1/2-14	7022108
3/4"	3/4-14	70221212
1"	1-11	70221616

Industry Crossovers: 3402 3055

BSPP FEMALE ADAPTER



FEMALE PIPE 1	MALE BSPP 2	PART #
1/8"	1/8-28	704222
1/4"	1/8-28	704242
1/4"	1/4-19	704244
3/8"	3/8-19	704266
1/2"	1/2-14	704288
3/4"	3/4-14	70421212
1"	1-11	70421616
1-1/4"	1-1/4-11	70422020

Industry Crossovers: 3455 MMFP

BSPP HEX HEAD PLUG



MALE BSPP	PART #
1/8-28	9522P2
1/4-19	9522P4
3/8-19	9522P6
1/2-14	9522P8
3/4-14	9522P12
1-11	9522P16

Industry Crossovers: 3408

BSPP HOLLOW HEX PLUG



MALE BSPP	PART #
1/8-28	9522H2
1/4-19	9522H4
3/8-19	9522H6
1/2-14	9522H8
3/4-14	9522H12
1-11	9522H16

Industry Crossovers: 3408 HHP

NEW PRODUCT LINE

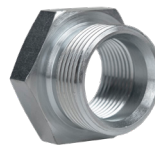
JIC TO BSPP MALE 45° ELBOW



JIC TUBE SIZE 1	MALE BSPP 2	PART #
1/4"	1/4"	78024
3/8"	3/8"	78026
1/2"	1/2"	78028
1"	1"	780216

NEW PRODUCT LINE

BSPP MALE FEMALE BUSHING



MALE BSPP	FEMALE BSPP	PART #
1-1/4"	1"	74302016

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

EXPANDED PRODUCT LINE

MALE CONNECTOR



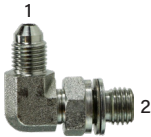
JIC TUBE SIZE 1	METRIC THREAD 2	PART #
1/4"	10x1.0	7005410
1/4"	12x1.5	7005412
1/4"	14x1.5	7005414
1/4"	18x1.5	7005418
5/16"	12x1.5	7005512
5/16"	14x1.5	7005514
3/8"	14x1.5	7005614
3/5	16x1.5	7005616
3/5	18x1.5	7005618
1/2"	16x1.5	7005816
1/2"	18x1.5	7005818
1/2"	22x1.5	7005822
5/8"	18x1.5	70051018
5/8"	20x1.5	70051020
5/8"	22x1.5	70051022
3/4"	22x1.5	70051222
3/4"	26x1.5	70051226
3/4"	27x2.0	70051227
1-1/4"	42x2.0	70052042
1-1/2"	48x2.0	70052448

* Port-seal crush washer and O-ring included

Industry Crossovers: 7400 30J (R) 7011

EXPANDED PRODUCT LINE

JIC X METRIC MALE 90° ELBOW



JIC TUBE SIZE 1	METRIC THREAD 2	PART #
1/4"	10x1.0	7205NWO410
1/4"	12x1.5	7205NWO412
1/4"	14x1.5	7205NWO414
5/16"	12x1.5	7205NWO512
3/8"	14x1.5	7205NWO614
3/8"	16x1.5	7205NWO616
1/2"	16x1.5	7205NWO816
1/2"	18x1.5	7205NWO818
1/2"	22x1.5	7205NWO822
5/8"	18x1.5	7205NWO1018
5/8"	20x1.5	7205NWO1020
5/8"	22x1.5	7205NWO1022
3/4"	22x1.5	7205NWO1222
3/4"	27x2.0	7205NWO1227
7/8"	26x1.5	7205NWO1426
1-1/4"	42x2.0	7205NWO2042

* Port-seal crush washer and O-ring included

Industry Crossovers: 7801 315 (R)

JIC SWIVEL X METRIC MALE



JIC TUBE SIZE 1	METRIC THREAD 2	PART #
1/4"	10x1.0	7025410
1/4"	12x1.5	7025412
5/16"	12x1.5	7025512
3/8"	14x1.5	7025614
3/8"	16x1.5	7025616
1/2"	16x1.5	7025816
5/8"	22x1.5	70251022
3/4"	27x2.0	70251227
1"	33x2.0	70251633

Industry Crossovers: 7402 30JS (R)

EXPANDED PRODUCT LINE

METRIC PARALLEL HEX HEAD PLUG



METRIC THREAD	PART #
10x1.0	8555P10
12x1.5	8555P12
14x1.5	8555P14
16x1.5	8555P16
18x1.5	8555P18
20x1.5	8555P20
22x1.5	8555P22
26x1.5	8555P26
30x20	8555P30

Industry Crossovers: 7408

EXPANDED PRODUCT LINE

METRIC PARALLEL HOLLOW HEX HEAD PLUG



METRIC THREAD	PART #
8x1.0	8555H8
10x1.0	8555H10
12x1.5	8555H12
14x1.5	8555H14
16x1.5	8555H16
18x1.5	8555H18
20x1.5	8555H20
22x1.5	8555H22
26x1.5	8555H26
27x2.0	8555H27
30x2.0	8555H30

Industry Crossovers: 7408 HHP

EXPANDED PRODUCT LINE

PIPE FEMALE X METRIC MALE



FEMALE PIPE THREAD 1	METRIC THREAD 2	PART #
1/8"	10x1.0	7045210
1/8"	14x1.5	7045214
1/4"	12x1.5	7045412
1/4"	14x1.5	7045414
3/8"	12x1.5	7045612
3/8"	14x1.5	7045614
3/8"	16x1.5	7045616
3/8"	18x1.5	7045618
1/2"	16x1.5	7045816
1/2"	18x1.5	7045818
1/2"	20x1.5	7045820
1/2"	22x1.5	7045822
3/4"	27x2.0	70451227
1"	33x2.0	70451633

Industry Crossovers: MMFP (R)

⚠ 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

THREAD TO CONNECT, DRYBREAK NO-SPILL QUICK CONNECT



BODY SIZE	FEMALE NPT	MAX PSI	PART #
3/4"	1/2"	3000	61150
3/4"	3/4"	3000	61152
1"	1"	3000	61153
1-1/4"	1-1/4"	2750	61154
1-1/2"	1-1/2"	2500	61155

- Brass Body
- Steel Wing Nut
- Buna-Seal (-40° to +250°F)



BODY SIZE	FEMALE NPT	MAX PSI	PART #
3/4"	1/2"	3000	61050
3/4"	3/4"	3000	61052
1"	1"	3000	61053
1-1/4"	1-1/4"	2750	61054
1-1/2"	1-1/2"	2500	61055

- Bonded Face Seal
- External ORing Alleviates Full Connection

INTERCHANGE DATA:

- Parker 6100, Aeroquip 5100, Snaptite B78

ISO-A PIPE FEMALE COUPLER



BODY SIZE	NPT	PART #
1/4"	1/4"	ANV14F
3/8"	3/8"	ANV38F
1/2"	1/2"	ANV12F
3/4"	3/4"	ANV34F
1"	1"	ANV1F

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 mating halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO-A PIPE FEMALE PLUG



BODY SIZE	NPT	PART #
1/4"	1/4"	ANV14M
3/8"	3/8"	ANV38M
1/2"	1/2"	ANV12M
3/4"	3/4"	ANV34M
1"	1"	ANV1M

INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56

BODY SIZE	ISO 7241-1 ISO-A Interchange (Connected)			
	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
1-1/4"	3,000	200	12,600	850
1-1/2"	3,000	200	12,600	850
2"	1,450	100	5,800	400

ISO-B STEEL PIPE FEMALE COUPLER



BODY SIZE	NPT	STEEL PART #
1/4"	1/4"	HNV14F
3/8"	3/8"	HNV38F
1/2"	1/2"	HNV12F
3/4"	3/4"	HNV34F
1"	1"	HNV1F

ISO-B BRASS PIPE FEMALE COUPLER



BODY SIZE	NPT	PART #
1/4"	1/4"	HNV14FB
3/8"	3/8"	HNV38FB
1/2"	1/2"	HNV12FB
3/4"	3/4"	HNV34FB
1"	1"	HNV1FB

ISO-B STEEL PIPE FEMALE PLUG



BODY SIZE	NPT	STEEL PART #
1/4"	1/4"	HNV14M
3/8"	3/8"	HNV38M
1/2"	1/2"	HNV12M
3/4"	3/4"	HNV34M
1"	1"	HNV1M

ISO-B BRASS PIPE FEMALE PLUG



BODY SIZE	NPT	PART #
1/4"	1/4"	HNV14MB
3/8"	3/8"	HNV38MB
1/2"	1/2"	HNV12MB
3/4"	3/4"	HNV34MB
1"	1"	HNV1MB

INTERCHANGE DATA:

- Parker 60 Series, Snap-tite 72 series, Dixon 'H' series
- Hansen HK - series, Aeroquip/ Eaton FDH5

BODY SIZE	ISO 7241-1 Series B ISO-B Interchange (Connected)							
	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

ISO 16028 - PIPE FEMALE COUPLER



FF Series
HTMC
74C

BODY SIZE	NPT	PART #
1/4"	1/4"	FF14F
3/8"	3/8"	FF38F
1/2"	1/2"	FF12F
3/8"	1/2"	FF3812F
1/2"	3/4"	FF1234F
3/4"	1"	FF3416F
3/4"	3/4"	FF34F
1"	1"	FF1F

FEATURES - ISO 16028

- Steel construction, zinc nickel plated 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 severe service conditions.
- Durable ball-locking mechanism assures reliable connection everytime.
- Temp Range -65° to +250°

ISO 16028 - PIPE FEMALE PLUG



FF Series
HTMN
74N

BODY SIZE	NPT	PART #
1/4"	1/4"	FF14M
3/8"	3/8"	FF38M
1/2"	1/2"	FF12M
3/8"	1/2"	FF3812M
1/2"	3/4"	FF1234M
3/4"	1"	FF3416M
3/4"	3/4"	FF34M
1"	1"	FF1M

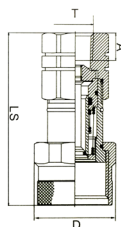
BODY SIZE	Flush Face Series			
	Steel Coupler/ Plug Coupled			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
5/8"	4,000	275	14,800	1,000
3/4"	4,000	275	12,400	850
1"	3,000	200	12,600	850

FLAT FACE THREAD LOCK - VEP QUICK COUPLING

FEMALE COUPLER



NPT	PART #	LS	D	A
1/2"	LSQVEP12SF	4.09	1.13	0.67
3/4"	LSQVEP34SF	4.49	2.13	0.79
1"	LSQVEP1SF	5.28	2.33	0.83
1-1/4"	LSQVEP20SF	5.71	2.72	0.83
1-1/2"	LSQVEP24SF	7.41	3.63	0.83



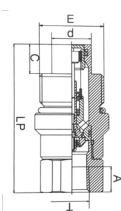
APPLICATIONS

- Widely used in public equipment
- Portable construction equipment
- Hydraulic tools
- Vehicles

FEMALE PLUG



NPT	PART #	LP	D	A
1/2"	LSQVEP12PF	4.09	1.13	0.67
3/4"	LSQVEP34PF	4.49	2.13	0.79
1"	LSQVEP1PF	5.28	2.33	0.83
1-1/4"	LSQVEP20PF	5.71	2.72	0.83
1-1/2"	LSQVEP24PF	7.41	3.63	0.83



FEATURES - Flat Face Thread Lock - VEP Quick Coupling

- 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.

BODY SIZE	VEP Quick Coupling Specifications				
	Rated Pressure	Rated Flow	Temp. Range	Standard Seal	Test Fluid-Oil
	PSI	GPM	°C	Material	SUS
1/2" (12)	7,000	12	-20°C to +120°C	NBR	200
3/4" (34)	7,000	50			
1" (1)	6,000	88			
1-1/2" (24)	5,000	152			

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

ISO-A SAE ORB FEMALE COUPLER



BODY SIZE	SAE	PART #
1/4"	7/16-20	ANV14FSAE
3/8"	9/16-18	ANV38FSAE
1/2"	3/4-16	ANV12FSAE
3/4"	1-1/16-12	ANV34FSAE
1"	1-5/16-12	ANV1FSAE

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 mating halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO-A SAE ORB FEMALE PLUG



BODY SIZE	SAE	PART #
1/4"	7/16-20	ANV14MSAE
3/8"	9/16-18	ANV38MSAE
1/2"	3/4-16	ANV12MSAE
3/4"	1-1/16-12	ANV34MSAE
1"	1-5/16-12	ANV1MSAE

BODY SIZE	ISO 7241-1 ISO-A Interchange (Connected)			
	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
1-1/4"	3,000	200	12,600	850
1-1/2"	3,000	200	12,600	850
2"	1,450	100	5,800	400

ISO-B ORB FEMALE COUPLER



BODY SIZE	SAE	PART #
1/4"	7/16-20	HNV14FSAE
3/8"	9/16-18	HNV38FSAE
1/2"	3/4-16	HNV12FSAE
3/4"	1-1/16-12	HNV34FSAE
1"	1-5/16-12	HNV1FSAE

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 mating halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F

ISO-B ORB FEMALE PLUG



BODY SIZE	SAE	PART #
1/4"	7/16-20	HNV14MSAE
3/8"	9/16-18	HNV38MSAE
1/2"	3/4-16	HNV12MSAE
3/4"	1-1/16-12	HNV34MSAE
1"	1-5/16-12	HNV1MSAE

Body Size	ISO 7241-1 Series B ISO-B Interchange (Connected)			
	Steel Coupler/ Plug		Brass Coupler/ Plug	
	Max. Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	22,500	1,550
3/8"	4,000	275	16,500	1,150
1/2"	4,000	275	16,000	1,100
3/4"	4,000	275	16,500	1,150
1"	4,000	275	16,000	1,100

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

ISO 16028 - FACE SEAL FEMALE SAE ORB COUPLER


BODY SIZE	SAE	PART #
1/4"	7/16-20	FF14FSAE
3/8"	9/16-18	FF38FSAE
3/8"	3/4-16	FF3812FSAE
1/2"	3/4-16	FF12FSAE
1/2"	1-1/16-12	FF1234FSAE
1"	1-5/16-12	FF1FSAE

FEATURES - ISO 16028

- Steel construction, zinc nickel plated 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 severe service conditions.
- Durable ball-locking mechanism assures reliable connection everytime.
- Temp Range -65° to +250°

ISO 16028 - FACE SEAL FEMALE SAE ORB PLUG


BODY SIZE	SAE	PART #
1/4"	7/16-20	FF14MSAE
3/8"	9/16-18	FF38MSAE
3/8"	1-1/16-12	FF3812MSAE
1/2"	3/4-16	FF12MSAE
1/2"	1-1/16-12	FF1234MSAE
1"	1-5/16-12	FF1MSAE

BODY SIZE	Flush Face Series			
	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

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

SNAP-TITE 60 SERIES

PIPE FEMALE COUPLER



BODY SIZE	NPT	PART #
1/4"	1/4"	NV14F
3/8"	3/8"	NV38F
1/2"	1/2"	NV12F
3/4"	3/4"	NV34F
1"	1"	NV1F

FEATURES - Snap-Tite 60 Series

- Heavy duty heat treated poppet: valves are standard with rugged, specially-designed seals made of nitrile 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

PIPE FEMALE PLUG



BODY SIZE	NPT	PART #
1/4"	1/4"	NV14M
3/8"	3/8"	NV38M
1/2"	1/2"	NV12M
3/4"	3/4"	NV34M
1"	1"	NV1M

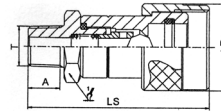
AG - Series Agricultural Interchange (Connected)				
NOMINAL SIZE	Steel Coupler/ Plug			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	4,000	275	21,000	1,500
3/8"	4,000	275	23,100	1,600
1/2"	4,000	275	16,500	1,100
3/4"	3,000	200	10,300	700
1"	3,000	200	13,000	900

THREAD LOCK HYDRAULIC JACK COUPLING

MALE COUPLER



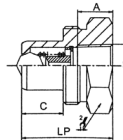
NPT	PART #	LS	D	HEX	A
1/4"	KZEB14SM	2.40	1.14	0.87	0.55
3/8"	KZEB38SM	2.91	1.38	0.98	0.57
3/8"	KZEB38SM	2.91	1.38	0.98	0.57



FEMALE COUPLER



NPT	PART #	LS	D	HEX	A
1/4"	KZEB14PF	1.30	0.44	0.75	0.51
3/8"	KZEB38PF	1.38	0.63	1.26	0.55



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.

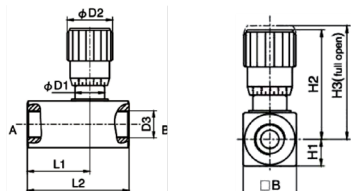
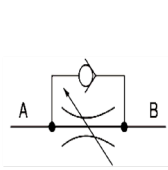
Thread Lock Hydraulic Jack Coupling Specifications				
BODY SIZE	Rated Pressure	Rated Flow	Temp. Range	Standard Seal
	PSI	GPM	°C	Material
1/4" (14)	10.000	3	-20°C to +120°C	NBR
3/8" (38)	10.000	6		

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



NPT	PART #	B	D1	D2	H1	H2	H3	L1	L2	WEIGHT (LBS)
1/4"	MMFC4NPT	1.10	0.76	1.18	0.55	2.41	2.67	1.54	2.52	0.90
3/8"	MMFC6NPT	1.10	0.76	1.18	0.55	2.41	2.67	1.69	2.75	0.90
1/2"	MMFC8NPT	1.50	0.95	1.46	0.75	3.07	3.41	2.05	3.27	2.00
3/4"	MMFC12NPT	1.50	0.95	1.46	0.75	3.08	3.41	2.17	3.50	2.00
1"	MMFC16NPT	1.89	1.38	1.89	0.94	4.03	4.50	2.79	4.60	4.20
1-1/4"	MMFC20NPT	2.38	1.96	2.28	1.18	5.25	5.88	3.39	6.07	9.55



FEATURES

- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

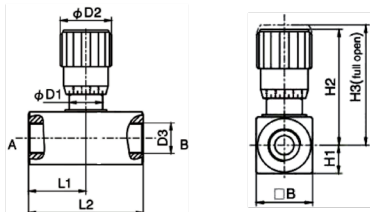
MM-FC Series Flow Control Valves Technical Data				
	Body	Handle	Set Screw	Packing
Materials	Carbon Steel w/ Black Oxide Plating	Zinc Alloy	Steel	Buna O-Ring / PTFE Stem Packing
Max Working Pressure (PSI)	5000 PSI			
Temp. Rating	-4°F to 176°F (-20°C to 80°C)			
Flow Rate (GPM)	0 - 42 GPM			

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-NV SERIES NEEDLE VALVES



NPT	PART #	B	D1	D2	H1	H2	H3	L1	L2	WEIGHT (LBS)
1/4"	MMNV4NPT	1.10	0.76	1.18	0.55	2.41	2.67	1.07	2.13	0.90
3/8"	MMNV6NPT	1.10	0.76	1.18	0.55	2.41	2.67	1.07	2.13	0.90
1/2"	MMNV8NPT	1.50	0.95	1.46	0.75	3.07	3.41	1.34	2.38	2.00
3/4"	MMNV12NPT	1.50	0.95	1.46	0.75	3.08	3.41	1.54	3.09	2.00
1"	MMNV16NPT	1.89	1.38	1.89	0.94	4.03	4.50	1.81	3.62	4.20



FEATURES

- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.
- Full Shutoff.

MM-NV Series Flow Control Valves Technical Data				
	Body	Handle	Set Screw	Packing
Materials	Carbon Steel w/ Black Oxide Plating	Zinc Alloy	Steel	Buna O-Ring / PTFE Stem Packing
Max Working Pressure (PSI)	5000 PSI			
Temp. Rating	-4°F to 176°F (-20°C to 80°C)			
Flow Rate (GPM)	0 - 42 GPM			

PRESSURE COMPENSATING VARIABLE FLOW CONTROL

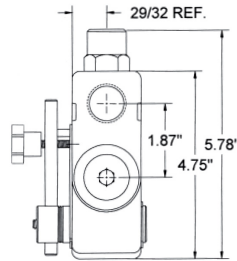
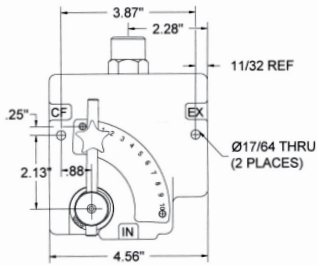


NPT	PART #	FLOW
3/8"	MFC38N	0-8 gpm
1/2"	MFC12N	0-16 gpm
3/4"	MFC34N	0-30 gpm

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 flow 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**



SCREW-ON TYPE AIR BREATHERS



NPT	PART NUMBER	FLOW CFM
1/4"	MB4004	10
3/8"	MB4006	10
1/2"	MB4008	10
3/4"	MB4012	25
1"	MB4016	25

FEATURES

- Chrome Plated Steel
- 40 Micron Breather

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 FLANGE ADAPTERS TECHNICAL INFORMATION

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 Fittings 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 O.D. INCHES	4 TO 1 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 O.D. INCHES	4 TO 1 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

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STEEL FLANGE ADAPTERS ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

- Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
- Lubricate the o-ring and place in flange head groove.
- Lubricate screw threads, slip lock washers onto screws, and insert screws into flange
- Position flange on port and finger tighten all screws.
- Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

RECOMMENDED SPLIT FOUR-BOLT

- Follow steps 1 through 3 above, then proceed to the following steps.
- Position both flanges on port and turn one screw in each flange about three turns.
- Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
- Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
- Torque the screws in a figure eight sequence incrementally until the appropriate torque value in the preceding 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.

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	N/A
-48	3"	137	N/A
-56	3-1/2"	116	N/A
-64	4"	116	N/A
-80	5"	116	N/A

JIC FLANGE ADAPTER - CODE 61



• 3000 PSI

JIC TUBE SIZE 1	FLANGE SIZE 2	PART #
1/2"	1/2"	170088
1/2"	3/4"	1700812
3/4"	3/4"	17001212
3/4"	1"	17001216
1"	3/4"	17001612
1"	1"	17001616
1"	1-1/4"	17001620
1"	1-1/2"	17001624
1-1/4"	1"	17002016
1-1/4"	1-1/4"	17002020
1-1/4"	1-1/2"	17002024
1-1/4"	2"	17002032
1-1/2"	1-1/4"	17002420
1-1/2"	1-1/2"	17002424
1-1/2"	2"	17002432
2"	2"	17003232

Industry Crossovers: 6840 503

JIC FLANGE 90° ADAPTER - CODE 61



• 3000 PSI

JIC TUBE SIZE 1	FLANGE SIZE 2	PART #
1/2"	1/2"	170488
1/2"	3/4"	1704812
5/8"	1"	17041016
3/4"	3/4"	17041212
3/4"	1"	17041216
3/4"	1-1/4"	17041220
1"	3/4"	17041612
1"	1"	17041616
1"	1-1/4"	17041620
1"	1-1/2"	17041624
1-1/4"	1"	17042016
1-1/4"	1-1/4"	17042020
1-1/4"	1-1/2"	17042024
1-1/4"	2"	17042032
1-1/2"	1-1/4"	17042420
1-1/2"	1-1/2"	17042424
1-1/2"	2"	17042432
2"	2"	17043232

Industry Crossovers: 6890 504

JIC FLANGE 45° ADAPTER - CODE 61



• 3000 PSI

JIC TUBE SIZE 1	FLANGE SIZE 2	PART #
1/2"	1/2"	170388
1/2"	3/4"	1703812
3/4"	3/4"	17031212
3/4"	1"	17031216
1"	3/4"	17031612
1"	1"	17031616
1"	1-1/4"	17031620
1-1/4"	1"	17032016
1-1/4"	1-1/4"	17032020
1-1/4"	1-1/2"	17032024
1-1/2"	1-1/4"	17032420
1-1/2"	1-1/2"	17032424
1-1/2"	2"	17032432
2"	2"	17033232

Industry Crossovers: 6845 505

JIC FLANGE ADAPTER - CODE 62



• 6000 PSI

JIC PIPE SIZE 1	FLANGE SIZE 2	PART #
1/2"	1/2"	180088
3/4"	3/4"	18001212
3/4"	1"	18001216
1"	3/4"	18001612
1"	1"	18001616
1"	1-1/4"	18001620
1"	1-1/2"	18001624
1-1/4"	1"	18002016
1-1/4"	1-1/4"	18002020
1-1/4"	1-1/2"	18002024
1-1/2"	1-1/4"	18002420
1-1/2"	1-1/2"	18002424

Industry Crossovers: 6842

NEW PRODUCT LINE

O-RING FLANGE CONNECTOR - CODE 61



FACE SEAL TUBE SIZE 1	FLANGE SIZE 2	PART #
1"	1"	FF68401616
1-1/4"	1"	FF68402016
1-1/4"	1-1/4"	FF68402020

JIC FLANGE 45° ADAPTER - CODE 62



• 6000 PSI

JIC THREAD SIZE 1	FLANGE SIZE 2	PART #
3/4"	3/4"	18031212
3/4"	1"	18031216
1"	3/4"	18031612
1"	1"	18031616
1"	1-1/4"	18031620
1"	1-1/2"	18031624
1-1/4"	1"	18032016
1-1/4"	1-1/4"	18032020
1-1/4"	1-1/2"	18032024
1-1/2"	1-1/4"	18032420
1-1/2"	1-1/2"	18032424
2"	2"	18033232

Industry Crossovers: 6847 508

SPLIT FLANGE PLUG - CODE 62



• 6000 PSI

FLANGE SIZE	PART #
3/4"	196212
1"	196216
1-1/4"	196220
1-1/2"	196224
2"	196232

Industry Crossovers: 6862P

⚠ 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 FLANGE 90° ADAPTER - CODE 62



• 6000 PSI

JIC THREAD SIZE 1	FLANGE SIZE 2	PART #
3/4"	3/4"	18041212
3/4"	1"	18041216
3/4"	1-1/4"	18041220
1"	3/4"	18041612
1"	1"	18041616
1"	1-1/4"	18041620
1"	1-1/2"	18041624
1-1/4"	1"	18042016
1-1/4"	1-1/4"	18042020
1-1/4"	1-1/2"	18042024
1-1/2"	1-1/4"	18042420
1-1/2"	1-1/2"	18042424
2"	2"	18043232

Industry Crossovers: 6842

SPLIT FLANGE KIT - CODE 61



• 3000 PSI

FLANGE SIZE	PART #	FLANGE HEAD DIAMETER
3/4"	190112	1.50
1"	190116	1.75
1-1/4"	190120	2.00
1-1/2"	190124	2.38
2"	190132	2.81

Industry Crossovers: SFK

SPLIT FLANGE PLUG - CODE 61



• 3000 PSI

FLANGE SIZE	PART #
3/4"	196112
1"	196116
1-1/4"	196120
1-1/2"	196124
2"	196132

Industry Crossovers: 6861P

SPLIT FLANGE KIT - CODE 62



• 6000 PSI

FLANGE SIZE	PART #	FLANGE HEAD DIAMETER
3/4"	190212	1.63
1"	190216	1.88
1-1/4"	190220	2.12
1-1/2"	190224	2.50
2"	190232	3.12

Industry Crossovers: SFXX

SPLIT FLANGE HALF - CODE 61



FLANGE SIZE	PART #	FLANGE HEAD DIAMETER
3/4"	206112	1.50
1"	206116	1.75
1-1/4"	206120	2.00
1-1/2"	206124	2.38
2"	206132	2.81

• 3000 PSI

Industry Crossovers: SF

PIPE THREAD FLANGE PAD - CODE 62



PIPE SIZE	PART #
3/4"	22621212
1"	22621616
1-1/4"	22622020
1-1/2"	22622424
2"	22623232

• 6000 PSI

Industry Crossovers: W44

SPLIT FLANGE HALF - CODE 62



FLANGE SIZE	PART #	FLANGE HEAD DIAMETER
3/4"	206212	1.63
1"	206216	1.88
1-1/4"	206220	2.12
1-1/2"	206224	2.50
2"	206232	3.12

• 6000 PSI

Industry Crossovers: SFX

O-RING FLANGE PAD - CODE 61



O-RING TUBE SIZE	PAD SIZE	PART #
3/4"	3/4"	23611212
1"	1"	23611616
1-1/4"	1-1/4"	23612020
1-1/2"	1-1/2"	23612424

• 3000 PSI

Industry Crossovers: W46

PIPE THREAD FLANGE PAD - CODE 61



PIPE SIZE	PART #
1/2"	226188
3/4"	22611212
1"	22611616
1-1/4"	22612020
1-1/2"	22612424
2"	22613232

• 3000 PSI

Industry Crossovers: W43

O-RING FLANGE PAD - CODE 62



O-RING TUBE SIZE	PAD SIZE	PART #
3/4"	3/4"	23621212
1"	1"	23621616
1-1/4"	1-1/4"	23622020
1-1/2"	1-1/2"	23622424

• 6000 PSI

Industry Crossovers: W48

HYDRAULICS

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0304C2	594	6400-32-20	607	6408032	609	6802NWO48	613	6900O1212	614
0304C3	594	6401-24-20	607	6410O46	609	6802NWO68	613	6900O1612	614
0304C4	594	6402O44	607	6410O64	609	6802NWO86	613	6900O1616	614
0304C5	594	6402O46	607	6410O68	609	6802NWO108	613	6900O1620	614
0304C6	594	6402O66	607	6410O84	609	6802NWO108	613	6901NWO42	614
0304C8	594	6402O68	607	6410O86	609	6802NWO810	613	6901NWO44	614
0304C10	594	6402O86	607	6410O88	609	6802NWO812	613	6901NWO64	614
0304C12	594	6402O88	607	6410O124	609	6802NWO1012	613	6901NWO66	614
0304C14	594	6402O108	607	6410O126	609	6802NWO1210	613	6901NWO68	614
0304C16	594	6402O810	607	6410O128	609	6802NWO1216	613	6901NWO84	614
0304C20	594	6402O1010	607	6410O166	609	6802NWO1612	613	6901NWO86	614
0304C24	594	6402O1212	607	6410O168	609	6802NWO1620	613	6901NWO88	614
0304C32	594	6402O1616	607	6410O810	609	6802NWO2016	613	6901NWO104	614
2503-04-08	598	6402O2020	607	6410O812	609	6803NWO2	613	6901NWO106	614
2503-20-24	598	6403AO24	608	6410O1012	609	6803NWO4	613	6901NWO108	614
2601-06-06-04	598	6403AO32	608	6410O1210	609	6803NWO6	613	6901NWO126	614
2601-08-08-12	598	6403O4	608	6410O1212	609	6803NWO8	613	6901NWO128	614
2601-10-10-08	598	6403O6	608	6410O1216	609	6803NWO10	613	6901NWO812	614
2602-10-10-08	599	6403O8	608	6410O1610	609	6803NWO12	613	6901NWO1212	614
2603-04-04-06	599	6403O12	608	6410O1612	609	6803NWO16	613	6901NWO1612	614
2603-06-06-08	599	6403O16	608	6410O2012	609	6803NWO20	613	6901NWO1616	614
2603-08-08-06	599	6404-05-02	608	6410O2016	609	6803NWO32	613	6901NWO2012	614
2603-08-08-10	599	6404-08-12	608	6410O2412	609	6803NWO68	613	6901NWO2016	614
2603-10-10-12	599	6404-14-12	608	6410O2416	609	6803NWO810	613	6901NWO2020	614
2603-16-16-20	599	6405O22	608	6410O2420	609	6804NWO4	612	6901NWO2424	614
2701-03-03	600	6405O24	608	6410O3216	609	6804NWO5	612	6901NWO3232	614
2701-32-32	600	6405O32	608	6410O3220	609	6804NWO6	612	6902NWO42	614
2702-05-05	600	6405O34	608	6410O3224	609	6804NWO8	612	6902NWO44	614
2703-24-24-24	601	6405O42	608	6500-06-04	610	6804NWO10	612	6902NWO46	614
2704-20-20-20	601	6405O44	608	6500-08-12	610	6804NWO12	612	6902NWO64	614
2704-24-24-24	601	6405O46	608	6502-14-14	610	6804NWO16	612	6902NWO66	614
03062	600	6405O52	608	6505-10-06	611	6804NWO20	612	6902NWO68	614
03064	600	6405O54	608	6600-32-32-32	612	6804NWO24	612	6902NWO84	614
03065	600	6405O62	608	6602-16-16-08	612	6804NWO42	612	6902NWO86	614
03066	600	6405O64	608	6602-32-32-32	612	6804NWO68	612	6902NWO88	614
03068	600	6405O66	608	6801LLLNWO8	612	6805NWO42	613	6902NWO108	614
03182	594	6405O68	608	6801LLLNWO10	612	6805NWO44	613	6902NWO128	614
03183	594	6405O84	608	6801LLLNWO810	612	6805NWO52	613	6902NWO1012	614
03184	594	6405O86	608	6801LNWO6	612	6805NWO64	613	6902NWO1212	614
03185	594	6405O88	608	6801LNWO68	612	6805NWO66	613	6902NWO1616	614
03186	594	6405O104	608	6801NWO68	612	6805NWO86	613	6902NWO2020	614
03188	594	6405O106	608	6801NWO2	612	6805NWO88	613	7202NWO42	623
5406-16-02	603	6405O108	608	6801NWO4	612	6805NWO108	613	7202NWO44	623
5406C2	603	6405O126	608	6801NWO6	612	6805NWO128	613	7202NWO64	623
5406C4	603	6405O128	608	6801NWO8	612	6805NWO1616	613	7202NWO86	623
5406C6	603	6405O168	608	6801NWO10	612	6805NWO2020	613	7202NWO88	623
5406C8	603	6405O612	608	6801NWO12	612	6805NWO2424	613	7202NWO108	623
5406C12	603	6405O812	608	6801NWO16	612	6806NWO44	613	7202NWO812	623
5406C16	603	6405O1012	608	6801NWO20	612	6806NWO52	613	7202NWO1212	623
5406FLP2	603	6405O1212	608	6801NWO24	612	6806NWO66	613	7202NWO1216	623
5406FLP4	603	6405O1216	608	6801NWO32	612	6806NWO68	613	7202NWO1616	623
5406FLP6	603	6405O1612	608	6801NWO43	612	6806NWO86	613	7205NWO410	625
5406FLP8	603	6405O1616	608	6801NWO46	612	6806NWO1212	613	7205NWO412	625
5406FLP12	603	6405O1620	608	6801NWO48	612	6806NWO1616	613	7205NWO414	625
5406HHP2	603	6405O2012	608	6801NWO54	612	6806NWO2424	613	7205NWO512	625
5406HHP4	603	6405O2016	608	6801NWO64	612	6806NWO3232	613	7205NWO614	625
5406HHP6	603	6405O2020	608	6801NWO84	612	6807NWO88	613	7205NWO616	625
5406HHP8	603	6405O2416	608	6801NWO86	612	6807NWO1616	613	7205NWO816	625
5406HHP12	603	6405O2420	608	6801NWO106	612	6807NWO2020	613	7205NWO818	625
5406HHP16	603	6405O2424	608	6801NWO108	612	6809NWO44	613	7205NWO822	625
5406HHP20	603	6405O3224	608	6801NWO128	612	6809NWO66	613	7205NWO1018	625
5406HHP24	603	6405O3232	608	6801NWO610	612	6809NWO88	613	7205NWO1020	625
5406HHP32	603	6408HO2	609	6801NWO612	612	6809NWO1212	613	7205NWO1022	625
5406P2	603	6408HO3	609	6801NWO810	612	6809NWO2020	613	7205NWO1222	625
5406P4	603	6408HO4	609	6801NWO812	612	6815NWO44	614	7205NWO1227	625
5406P6	603	6408HO5	609	6801NWO816	612	6815NWO66	614	7205NWO1426	625
5406P8	603	6408HO6	609	6801NWO1016	612	6815NWO88	614	7205NWO2042	625
5406P12	603	6408HO8	609	6801NWO1210	612	6815NWO1010	614	8555H8	625
5406P16	603	6408HO10	609	6801NWO1212	612	6815NWO1212	614	8555H10	625
5406P20	603	6408HO12	609	6801NWO1216	612	6900O42	614	8555H12	625
5406P24	603	6408HO14	609	6801NWO1612	612	6900O44	614	8555H14	625
5406P32	603	6408HO16	609	6801NWO1614	612	6900O46	614	8555H16	625
5406SHP2	603	6408HO20	609	6801NWO1616	612	6900O48	614	8555H18	625
5406SHP4	603	6408HO24	609	6801NWO1620	612	6900O54	614	8555H20	625
5406SHP6	603	6408HO32	609	6801NWO1624	612	6900O64	614	8555H22	625
5406SHP8	603	6408HO2	609	6801NWO2012	612	6900O66	614	8555H26	625
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5406SHP16	603	6408O4	609	6801NWO2024	612	6900O84	614	8555H30	625
5406SHP20	603	6408O5	609	6801NWO2420	612	6900O86	614	8555P10	625
5406SHP24	603	6408O6	609	6802NWO2	613	6900O88	614	8555P12	625
5406SHP32	603	6408O6S	609	6802NWO4	613	6900O104	614	8555P14	625
5505-24-24	605	6408O8	609	6802NWO6	613	6900O106	614	8555P16	625
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6400-10-04	607	6408O16	609	6802NWO16	613	6900O1012	614	8555P30	625
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6400-14-10	607	6408O20	609	6802NWO24	613				
6400-24-16	607	6408O24	609	6802NWO32	613				
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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

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72001616.....	622	FS240344.....	617	FS25011216.....	617	FSO3186.....	615	LSQVEP24SF.....	627
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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