

TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

Pipe & Pipe Swivel Adapter Specifications

NPSM fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male NPTF fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with NPSM swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

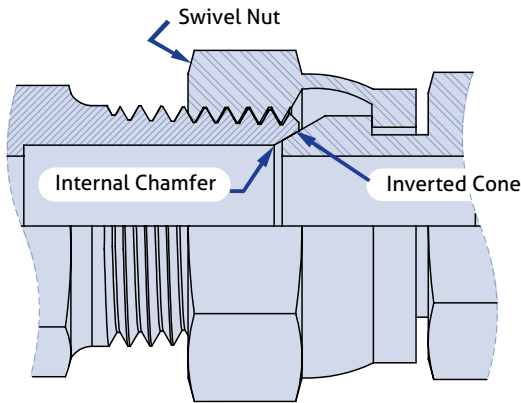


Figure 7 : NPTF & NPSM Union

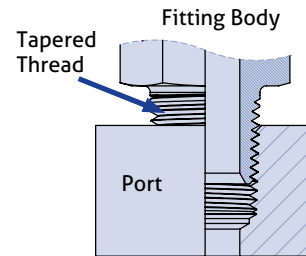


Figure 8: NPT & NPTF Assembly

NPT and NPTF pipe threads seal by wedging the tapered threads through deformation into each other. Both of these threads require thread sealants to complete a seal.

The following table lists the specifications for NPT, NPTF, and NPSM Pipe adapters.

NPT, NPTF, and NPSM Pipe Specifications						
Dash Size	Thread Size	Major OD* (inch)	Working Pressure		Torque	
			NPT, NPTF Male and Female	NPSM Female Swivel Nut	NPT, NPTF	NPSM Swivel Union
			(psi)	(psi)	(TFFT)	(FFWR)
02	1/8-27	.405	5000	5000	2-3	2
04	1/4-18	.540	4000	5000	2-3	2
06	3/8-18	.675	3000	4000	2-3	2
08	1/2-14	.84	3000	3500	2-3	2
12	3/4-14	1.050	2500	2250	2-3	2
16	1-11 1/2	1.315	2000	2000	1 1/2 - 2 1/2	1 1/2
20	1 1/4-11 1/2	1.660	1150	1625	1 1/2 - 2 1/2	1 1/2
24	1 1/2-11 1/2	1.900	1000	1250	1 1/2 - 2 1/2	1 1/2
32	2-11 1/2	2.375	1000	1125	1 1/2 - 2 1/2	1 1/2

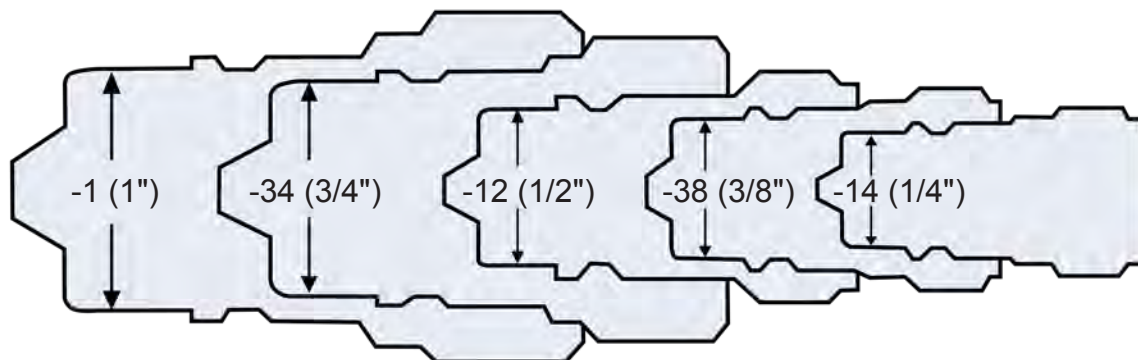
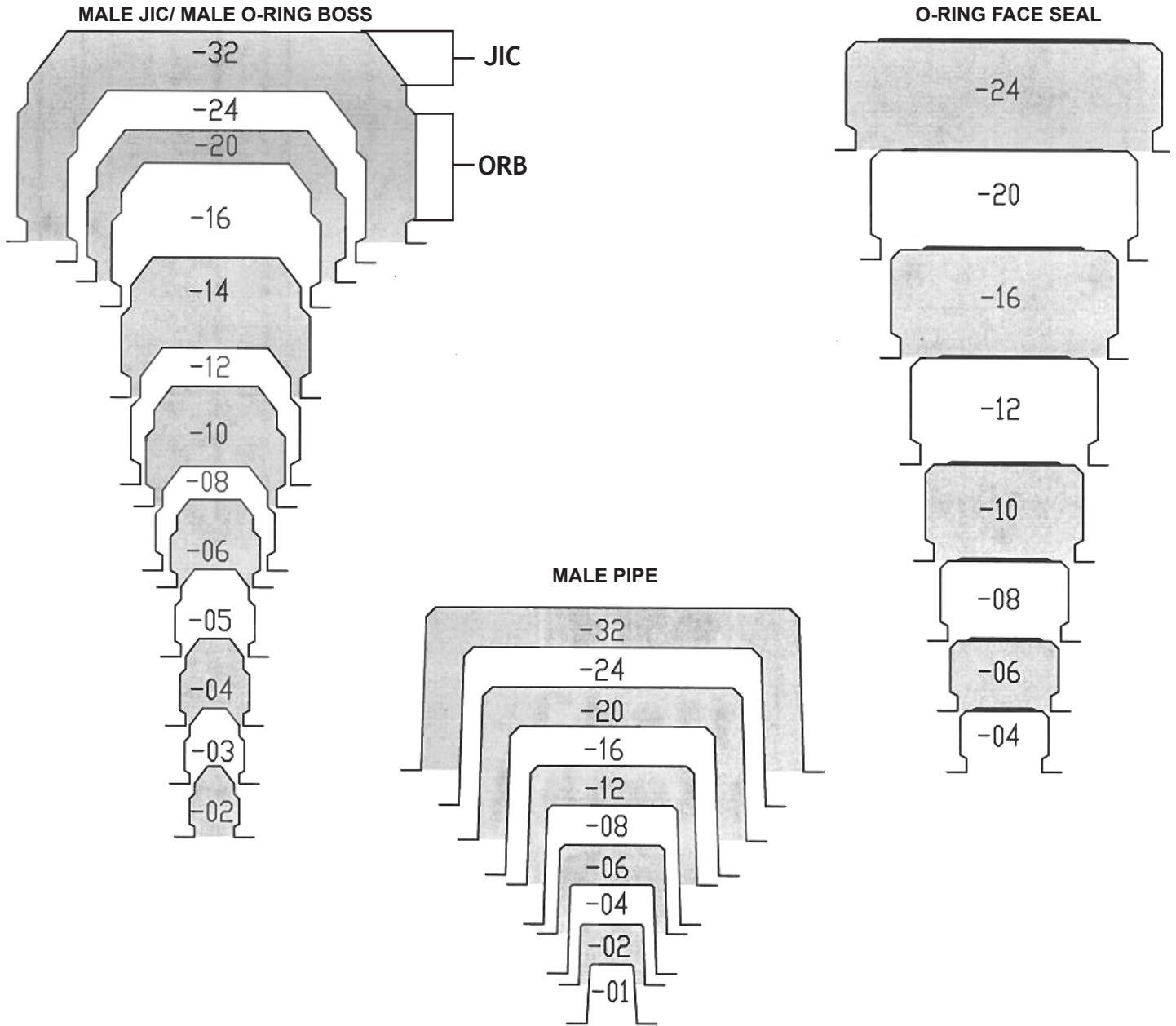
Values are per SAE J514 & J2593

Table 3: NPT, NPTF, and NPSM Pipe Specifications

Folks who never do any more than they are paid for, never get paid for any more than they do.

-Elebert Hubbard

PROFILE SIZE CHART



AG INTERCHANGE - NV SERIES



STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

PIPE COUPLING

910

SAE 140138



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

5000 2096 GG 1273 C3309

HEX PIPE NIPPLES

SAE 140137



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

5404 2083 FF 1252 C3069 911

EXPANDING PIPE ADAPTER

SAE 140139



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

920 5405 2040 FG-(R) 1274 C3209(R)

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

5406 2081 PTR 1250 C3109 912

STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

HEX REDUCER BUSHING

SAEF1
140140



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

HEX HEAD PLUG

SAE 130109E



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

933 5406P 2082 HP 1251 C3159

HOLLOW HEX PLUG

SAE 130109



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

C3169 2222

FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER



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

SQUARE HEAD PLUG

SAE 130109A



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

C3179

STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

PIPE CAP



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

HPC

MALE ELBOW

SAE 140237



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

919 5500 2085 CR 1275 C3529

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STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

45° MALE ELBOW



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

5501 2247

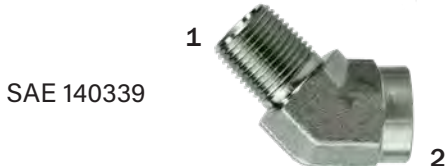
90° STREET ELBOW



PART #	MALE PIPE 1	FEMALE PIPE 2	
55022	1/8	1/8	----
55024	1/4	1/4	----
550264	3/8	1/4	----
55026	3/8	3/8	----
550268	3/8	1/2	----
550284	1/2	1/4	----
550286	1/2	3/8	----
550288	1/2	1/2	----
550212	3/4	3/4	----
5502812	1/2	3/4	----
5502128	3/4	1/2	----
55021612	1	3/4	----
55021616	1	1	----
550220	1-1/4	1-1/4	----
550224	1-1/2	1-1/2	----

5502 2089 CD 1234R C3409 914

45° STREET ELBOW



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

5503 CD45 1244

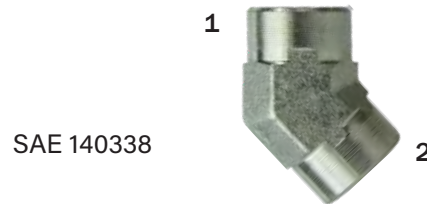
FEMALE ELBOW



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

5504 2087 DD 1245 C3509 916

45° FEMALE ELBOW



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

5505 DD45 1241 C3559

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STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

MALE PIPE TEE

SAE 140437



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

5600 2257 RRS

FEMALE BRANCH PIPE TEE

SAE 140427



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

901 5601 2256

STREET PIPE TEE

SAE 140424

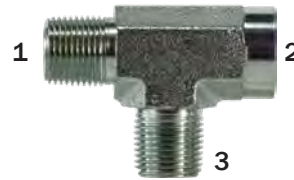


PART #	MALE PIPE 1	FEMALE PIPE 2 & 3	
560222	1/8	1/8	----
560244	1/4	1/4	----
560266	3/8	3/8	----
560288	1/2	1/2	----
560212	3/4	3/4	----
560216	1	1	----

902 5602 2092 MRO 1276 C3759

FEMALE RUN PIPE TEE

SAE 1404276



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

5603 2093 MMO 1277

MALE BRANCH PIPE TEE



PART #	FEMALE PIPE 1 & 2	MALE PIPE 3	
560422	1/8	1/8	----
560444	1/4	1/4	----
560466	3/8	3/8	----
560488	1/2	1/2	----
560412	3/4	3/4	----
560416	1	1	----

904 5604 2091 MMS 1278 C3609

FEMALE PIPE TEE

SAE 140438



PART #	FEMALE PIPE	
560522	1/8	----
560544	1/4	----
560566	3/8	----
56058	1/2	----
560512	3/4	----
560516	1	----
560520	1-1/4	----

917 5605 2090 1225 C3709

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