



Steel Adapters



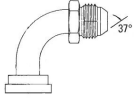
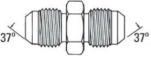
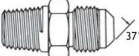
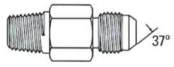
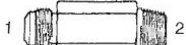
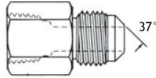
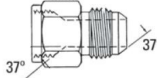
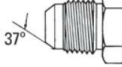
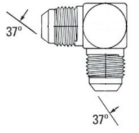
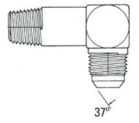
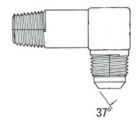
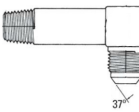
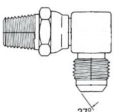
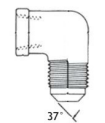
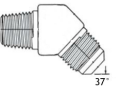
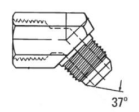
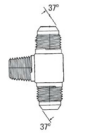
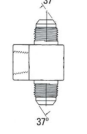
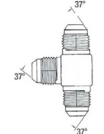
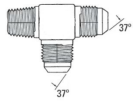
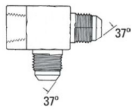
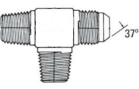
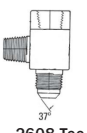
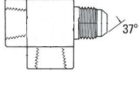
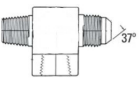
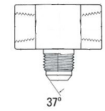
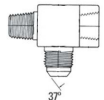
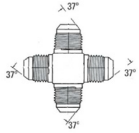
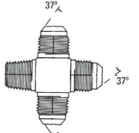
1831 South Richey
Pasadena, TX 77502
Phone: (713) 920-2030

www.nationalhose.com

1210 Avenue H East
Arlington, TX 76011
Phone: (214) 631-3143

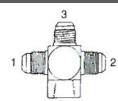
TUBE FITTINGS, J.I.C.-S.A.E.

DASH NUMBER	2	3	4	5	6	8	10	12	14	16	20	24	32
TUBE O.D.	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2
STRAIGHT THREAD	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 13/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12
PIPE THREAD STD	1/8-27		1/4-18		3/8-18	1/2-14		3/4-14		1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2

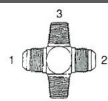
						
302- Short Nut	304- Standard Nut	304-C Cap Nut	306 Bulkhead Lock Nut	306-N Adjustable Lock Nut	318 Tube Nut	319 Tube Sleeve
						
618 Flareless Tube Nut	619 Flareless Tube Sleeve	1704-62-90° 6000 PSI (1) Male Tube (2) O° Ring Flange	2403-Str. (1) Male Tube Union	2403-LH-Str. (1) Male Tube Union Large Hex	2403-Str. (1) Male Tube (2) Male Pipe	2404-L-Str. (1) Male Tube (2) Male Pipe - Long
						
2404-LL-Str. (1) Male Tube (2) Male Pipe -- Ex. Long	2404-LL-Str. (1) Male Tube (2) Male Pipe -- Ex. Long	2405-Str. (1) Male Tube (2) Fem. Pipe	2406-Str. Reducer & Expander (1) 37° Fem. (2) Male Tube	2407-Str. Reducer & Nut (1) 37° Fem. (2) Male Tube	2408 (1) Male Tube Plug	2500-90° Male Tubes
						
2501-90° Male Tube & Pipe	2501-L-90° Male Tube & Pipe -- Long	2401-LL-90° (1) Male Tube (2) Male Pipe -- Ex. Long	2501-LLL-90° (1) Male Tube (2) Male Pipe -- Ex. Ex. Long	2501-S-90° (1) Male Tube (2) Male Pipe Swivel	2502-90° (1) Male Tube (2) Female Pipe	2503-45° (1) Male Tube (2) Male Pipe
						
2504-45° Male Tube	2505-45° Male Tube & Female Pipe	2601-Tee (1) (2) (3) Male Pipe	2602-Tee (1) (2) Male Tube (3) Female Pipe	2603-Tee (1) (2) (3) Male Pipe	2605-Tee (1) (2) Male Tube (3) Female Pipe	2606-Tee (1) (3) Male Tube (2) Female Pipe
						
2607-Tee (1) Male Tube (2) (3) Male Pipe	2608-Tee (1) Male Tube (2) Fem. Pipe (3) Male Pipe	2609-Tee (1) Male Tube (2) (3) Fem. Pipe	2610-Tee (1) Male Tube (2) (3) Fem. Pipe	2611-Tee (1) Male Tube (2) Male Pipe (3) Fem. Pipe	2612-Tee (1) Male Tube (2) (3) Fem. Pipe	2613-Tee (1) Male Tube (2) Male Pipe (3) Fem. Pipe
						
2650-Cross (1) (2) (3) (4) Male Tube	2650-Cross (1) (3) (4) Male Tube (2) Male Pipe					

CUSTOM ADAPTERS AVAILABLE UPON REQUEST

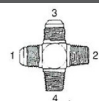
TUBE FITTINGS, Continued.



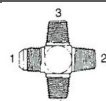
2652-Cross
(1) (2) (3) Male Pipe
(4) Female Pipe



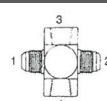
2653-Cross
(1) (2) Male Tube
(3) (4) Female Pipe



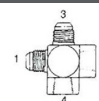
2654-Cross
(1) (3) Male Tube
(2) (4) Male Pipe



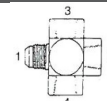
2655-Cross
(1) Male Tube
(2) (3) (4) Male Pipe



2656-Cross
(1) (2) Male Tube
(3) (4) Fem. Pipe



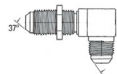
2657-Cross
(1) (3) Male Tube
(2) (4) Fem. Pipe



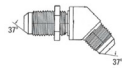
2658-Cross
(1) Male Tube
(2) (3) (4) Fem. Pipe



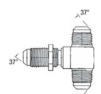
2700-Str.
(1) Male Tube
(2) Bulkhead



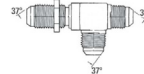
2701-90°
(1) Male Tube
(2) Bulkhead



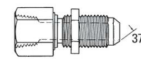
2702-45°
(1) Male Tube
(2) Bulkhead



2703-Tee
(1) (2) Male Tube
(3) Bulkhead



2704-Tee
(1) (3) Male Tube
(2) Bulkhead

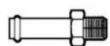


2705-Str.
(1) Bulkhead
(2) Female Pipe



2706-Str.
(1) Bulkhead
(2) Male Pipe

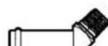
BEADED HOSE ADAPTERS



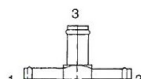
4004-Str.
(1) Beaded
(2) Male Pipe



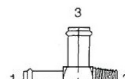
4501-90°
(1) Beaded
(2) Male Pipe



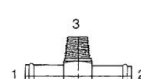
4503-45°
(1) Beaded
(2) Male Pipe



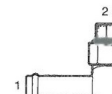
4503-Tee
(1) (2) (3) Beaded



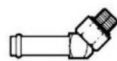
4505-Tee
(1) (3) Beaded
(2) Male Pipe



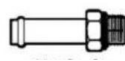
4506-Tee
(1) (2) Beaded
(3) Male Pipe



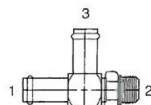
4601-NW0-90°
(1) Beaded
(2) Adj. "O" Ring



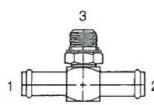
4603-NW0-45°
(1) Beaded
(2) Adj. "O" Ring



4604-0-Str
(1) Beaded
(2) Adj. "O" Ring

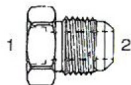


4605-NW0-Tee
(1) (3) Beaded
(2) Adj. "O" Ring

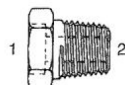


4606-NW0-Tee
(1) (2) Beaded
(3) Adj. "O" Ring

BRAZE FITTINGS FOR TUBING (REFER TO "TUBE FITTINGS, JIC-SAE" CHART FOR SIZES)



403-Str.
(1) Bore
(2) Male Tube



404-Str.
(1) Bore
(2) Male Pipe



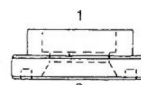
405-Str.
(1) Bore
(2) Fem. Pipe



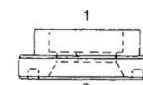
500-90°
(1) Bore
(2) Male Tube



501-90°
(1) Bore
(2) Male Pipe

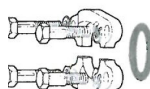


501-90°
(1) Bore
(2) Male Pipe



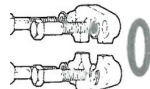
501-90°
(1) Bore
(2) Male Pipe

FLANGES



3000 PSI

SFK-61
Split Flange Kit
Code 61



6000 PSI

SFK-62
Split Flange Kit
Code 62



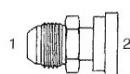
SF-W43K
Female Pipe
Flange Pad Kit



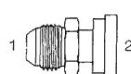
SF-P
Flange Plug



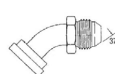
4000-17
"O" Ring- For
Split Flange



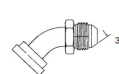
1700-61-Str. 3000 PSI
(1) Male Tube
(2) "O" Ring Flange



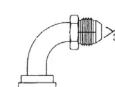
1700-62-Str. 6000 PSI
(1) Male Tube
(2) "O" Ring Flange



1703-62-45° 3000 PSI
(1) Male Tube
(2) "O" Ring Flange



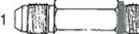
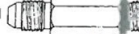
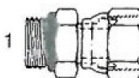
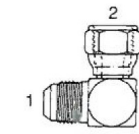
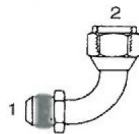
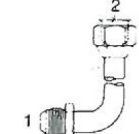
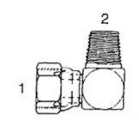
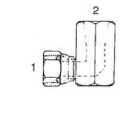
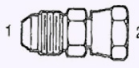
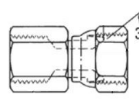
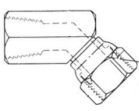
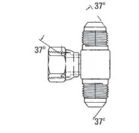
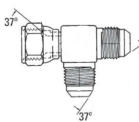
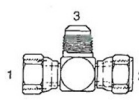
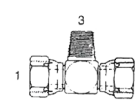
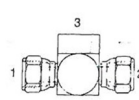
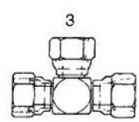
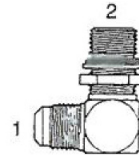
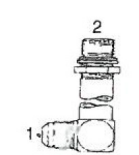
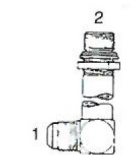
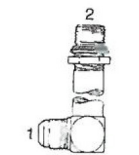
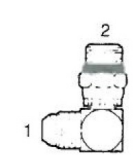
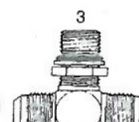
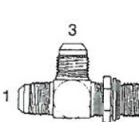
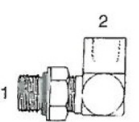
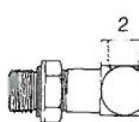
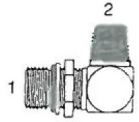
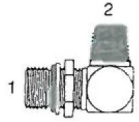
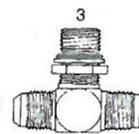
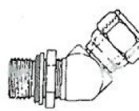
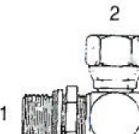
1703-62-45° 6000 PSI
(1) Male Tube
(2) "O" Ring Flange



1703-62-45° 6000 PSI
(1) Male Tube
(2) "O" Ring Flange

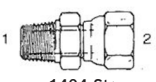
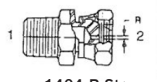
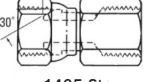
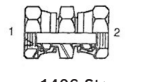
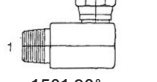
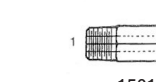
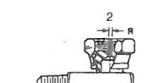
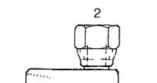
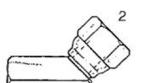
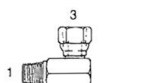
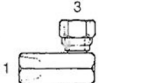
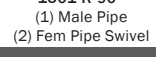
ADJUSTABLE & "O"-RING FITTINGS

(REFER TO "TUBE FITTINGS, JIC-SAE" CHART FOR SIZES)

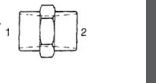
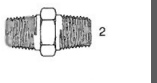
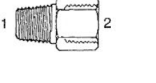
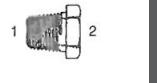
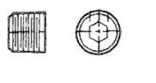
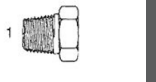
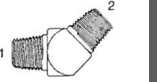
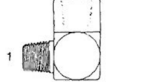
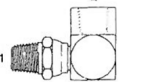
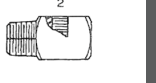
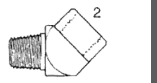
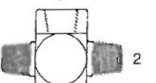
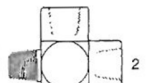
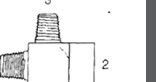
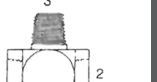
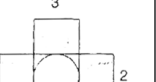
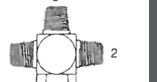
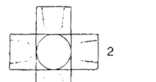
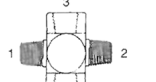
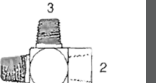
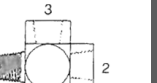
 4000 - "O" Ring Buna-N 90 Duro.	 6400-O-Str. (1) Male Tube (2) Male "O" Ring	 6400-L-O-Str. (1) Male Tube (2) Male "O" Ring - Long	 6400-LL-O-Str. (1) Male Tube (2) Male "O" Ring - Ex Long	 6400-LLL-O-Str. (1) Male Tube (2) Male "O" Ring - Ex Ex Long	 6400-LLL-O-Str. (1) Male "O" Ring (2) Male Pipe	 6402-O-Str. (1) Male "O" Ring (2) 37° Fem Swivel
 6404-Str. (1) Fem. "O" Ring (2) Male Pipe	 6405-O. (1) Male "O" Ring (2) Female Pipe	 6408-O-Str (1) Male "O" Ring Plug	 6408-HHP-O Hollow Hex Male "O" Ring Plug	 6410-O-Str (1) Male "O" Ring (2) Fem. "O" Ring	 6464-NWO (1) Male "O" Ring (2) Adj. "O" Ring	 6464-NWO (1) Male "O" Ring (2) Adj. "O" Ring
 6500-L-90° (1) Male Tube (2) 37° Fem. Swivel - Long	 6500-LL-90° (1) Male Tube (2) 37° Fem. Swivel - Ex. Long	 6501-90° (1) 37° Fem. Swivel (2) Male Pipe	 6502-45° (1) Male Tube (2) 37° Fem. Swivel	 6503-90° (1) 37° Fem. Swivel (2) Fem. Pipe	 6504-Str. (1) Male Tube (2) 37° Fem. Swivel	 6505-Str. (1) 37° Fem. Swivel (2) Male Pipe
 6506-Str. (1) 37° Fem. Swivel (2) Fem Pipe	 6801-NWO-90° (1) 37° Fem. Swivel (2) Fem Pipe	 6600-Tee (1) (2) Male Tube (2) 37° Fem. Swivel	 6602-Tee (1) (3) Male Tube (2) 37° Fem. Swivel	 6603-Tee (1) (2) 37° Fem. Swivel (3) Male Tube	 6604-Tee (1) (2) 37° Fem. Swivel (3) Male Pipe	 6605-Tee (1) (2) 37° Fem. Swivel (3) Fem. Pipe
 6606-Tee (1) (2) (3) 37° Fem. Swivel	 6801-NWO-90° (1) Male Tube (2) Adj. "O" Ring	 6801-L-NWO-90° (1) Male Tube (2) Adj. "O" Ring - Long	 6801-LL-NWO-90° (1) Male Tube (2) Adj. "O" Ring - Ex. Long	 6801-LLL-NWO-90° (1) Male Tube (2) Adj. "O" Ring - Ex. Ex. Long	 6801-S-O-90° (1) Male Tube (2) Male "O" Ring Swivel	 6802-NWO-45° (1) Male Tube (2) Male "O" Ring Swivel
 6803-Tee (1) (2) Male Tube (2) Adj. "O" Ring	 6804-NWO-Tee (1) (3) Male Tube (2) Adj. "O" Ring	 6805-NWO-90° (1) Adj. "O" Ring (2) Fem. Pipe	 6805-LL-NWO-90° (1) Adj. "O" Ring (2) Fem. Pipe	 6806-NWO-90° (1) Adj. "O" Ring (2) Male. Pipe	 6807-NWO-90° (1) (2) Adj. "O" Ring	 6808-NWO-45° (1) (2) Adj. "O" Ring
 6809-NWO-90° (1) (2) Adj. "O" Ring (2) 37° Fem. Swivel	 6810-NWO-45° (1) Adj. "O" Ring (2) 37° Fem. Swivel	 6900-O-Str (1) Male "O" Ring (2) Fem Pipe Swivel	 6901-NWO-90° (1) Adj. "O" Ring (2) Fem Pipe Swivel	 6902-NWO-90° (1) Adj. "O" Ring (2) Fem Pipe Swivel		

NPSM PIPE ADAPTER UNIONS

DASH NUMBER	2	4	6	8	12	16	20	24	32
STRAIGHT THREAD	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2

 1404-Str (1) Male Pipe (2) Fem Pipe Swivel	 1404-R-Str (1) Male Pipe (2) Fem Pipe Swivel	 1405-Str (1) Fem Pipe (2) Fem Pipe Swivel	 1406-Str (1) (2) Fem Pipe Swivel	 1501-90° (1) Male Pipe (2) Fem. Pipe Swivel	 1501-LL-90° (1) Male Pipe (2) Fem. Pipe Swivel
 1501-R-90° (1) Male Pipe (2) Fem Pipe Swivel	 1502-90° (1) Fem Pipe (2) Fem Pipe Swivel	 1503-45° (1) Male Pipe (2) Fem Pipe Swivel	 1504-45° (1) Fem Pipe (2) Fem Pipe Swivel	 1601-Tee (1) Male Pipe (2) (3) Fem. Pipe Swivel	 1602-Tee (1) Fem Pipe (2) (3) Fem. Pipe Swivel
 1602-Tee (1) (2) (3) Fem. Pipe Swivel					

NPTF PIPE FITTINGS (Refer to "Adapter Union" Chart, above, for sizes)

 5000-STR. (1) (2) Fem. Pipe	 5404-Str (1) (2) Male Pipe	 5404-N-Str-Nipple (1) (2) Male Pipe	 5405-Str. Reducer (1) Male Pipe (2) Female Pipe	 5406-Str. Bushing (1) Male Pipe (2) Female Pipe	 5406-C (1) Pipe Cap	 5406-HHP (1) Pipe Cap
 5406-P Plug (1) Pipe Plug	 5406-SHP (1) Square Head Plug	 5500-90° (1) (2) Male Pipe	 5500-S-90° (1) Male Pipe (2) Male Pipe Swivel	 5501-45° (1) (2) Male Pipe	 5502-90° (1) Male Pipe (2) Fem Pipe	 5502-S-90° (1) Male Pipe Swivel (2) Fem Pipe
 5502-SB-90° (1) Male Pipe (2) Fem Pipe	 5503-45° (1) Male Pipe (2) Fem Pipe	 5504-45° (1) (2) Fem. Pipe	 5505-45° (1) (2) Fem.h Pipe	 5600-Tee (1) (2) (3) Male Pipe	 5601-Tee (1) (2) Male Pipe (3) Fem. Pipe	 5602-Tee (1) Male Pipe (2) (3) Fem. Pipe
 5603-Tee (1) (3) Male Pipe (2) Fem Pipe	 5604-Tee (1) (2) Fem Pipe (2) Male Pipe	 5605-Tee (1) (2) (3) Fem Pipe	 5650-Cross (1) (2) (3) (4) Male Pipe	 5651-Cross (1) (2) (3) Male Pipe (4) Fem. Pipe	 5652-Cross (1) (2) (3) (4) Fem. Pipe	 5653-Cross (1) (2) Male Pipe (3) (4) Fem. Pipe
 5654-Cross (1) (3) Male Pipe (2) (4) Fem Pipe	 5655-Cross (1) Male Pipe (2) (3) (4) Fem Pipe					

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