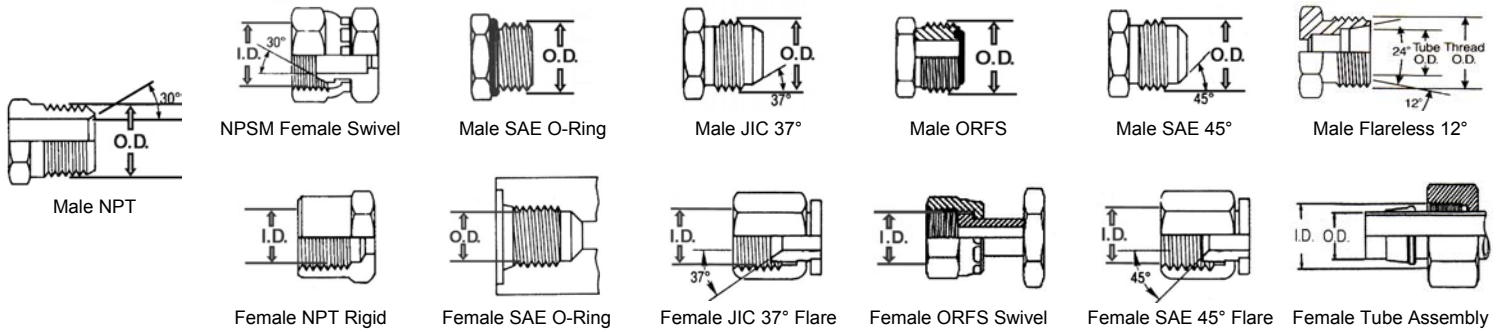


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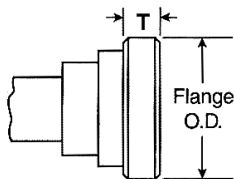
Connection Identification - Thread Charts

Common North American Threaded Fluid Connections



Dash Size	NPT / NPSM Series Code N			SAE O-Ring Series Code O		Tube O.D.	JIC 37° Flare Series Code J		ORFS Series Code F		SAE 45° Flare Series Code P		Flareless Tube Series Code L	
	Size & TPI Nominal*	Actual Male O.D.	Female I.D.	Male O.D. & TPI	Female I.D.		Male O.D. & TPI	Female I.D.	Male O.D. & TPI	Female I.D.	Male O.D. & TPI	Female I.D.	Male O.D. & TPI	Female I.D.
2	1/8-27	13/32	23/64	5/16-24	17/64	1/8"	5/16-24	17/64	°	°	5/16-24	17/64	5/16-24	17/64
3	°	°	°	3/8-24	21/64	3/16"	3/8-24	21/64	°	°	3/8-24	21/64	3/8-24	21/64
4	1/4-18	35/64	15/32	7/16-20	25/64	1/4"	7/16-20	25/64	9/16-18	1/2	7/16-20	25/64	7/16-20	25/64
5	°	°	°	1/2-20	29/64	5/16"	1/2-20	29/64	°	°	1/2-20	29/64	1/2-20	29/64
6	3/8-18	43/64	19/32	9/16-18	1/2	3/8"	9/16-18	1/2	11/16-16	5/8	5/8-18	9/16	9/16-18	1/2
7	°	°	°	°	°	7/16"	°	°	°	°	11/16-16	5/8	°	°
8	1/2-14	27/32	3/4	3/4-16	11/16	1/2"	3/4-16	11/16	13/16-16	3/4	3/4-16	11/16	3/4-16	11/16
10	°	°	°	7/8-14	13/16	5/8"	7/8-14	13/16	1-14	15/16	7/8-14	13/16	7/8-14	13/16
12	3/4-14	11/16	61/64	11/16-12	31/32	3/4"	11/16-12	31/32	13/16-12	11/8	11/16-14	63/64	11/16-12	31/32
14	°	°	°	13/16-12	17/64	7/8"	13/16-12	17/64	°	°	°	°	13/16-12	17/64
16	1-11/2	15/16	113/64	15/16-12	115/64	1"	15/16-12	115/64	17/16-12	111/32	°	°	15/16-12	115/64
20	11/4-11/2	143/64	117/32	15/8-12	135/64	1 1/4"	15/8-12	135/64	111/16-12	119/32	°	°	15/8-12	135/64
24	1 1/2-11/2	129/32	125/32	17/8-12	151/64	1 1/2"	17/8-12	151/64	2-12	129/32	°	°	17/8-12	151/64
32	2-11/2	23/8	21/4	2 1/2-12	227/64	2"	2 1/2-12	227/64	°	°	°	°	2 1/2-12	227/64

Split Flange Connections

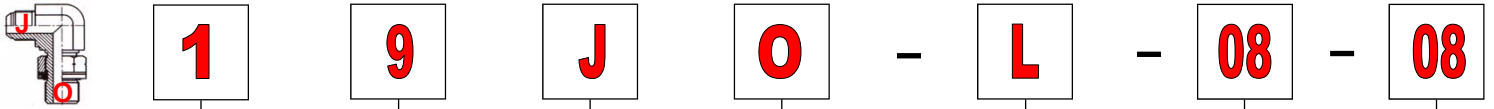


Code 61, Code 62 Four Bolt Flange Connections are equivalent to and interchangeable with their German and Japanese counterparts. The main differences are: Metric Bolts, Metric O-Ring and JIS Type I series has a size 10. "Cat" flanges are the same diameter with the same bolt pattern, but thicker than a Code 62. Replacement of a "Cat" Flange with a Code 62 is made possible by using a Code 62 Split Flange Kit.

Dash Size	Code 61 DIN Form R JIS Type I		Code 62 DIN Form S JIS Type II		"Cat" Flange	
	O.D.	(T)	O.D.	(T)	O.D.	(T)
8	1.188	.265	1.25	.305	°	°
10*	1.345	.265	°	°	°	°
12	1.500	.265	1.625	.345	1.625	.560
16	1.750	.315	1.875	.375	1.875	.560
20	2.000	.315	2.125	.405	2.125	.560
24	2.375	.315	2.500	.495	2.500	.560
32	2.812	.375	3.125	.495	3.125	.560
40	3.312	.375	°	°	°	°
48	4.000	.375	°	°	°	°

*Non SAE Size

Part Number System



Style

Orientation

Connection (1)

Connection (2)

Style Designator (Optional)

Size (1)

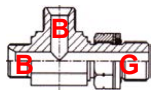
Size (2)

- 1 Male x Male
- 2 Male x Female Swivel
- 3 Female Swivel Union
- 4 Fem Rigid x Fem Swivel
- 5 Male x Female Rigid
- 6 Male Bulkhead Union
- 7 Female x Female Rigid
- 8 Male Bulkhead x Fem Rigid
- 0C Female Cap ¹
- 0P Male Plug ¹
- 0N Nut ¹
- 0S Sleeve ¹
- 0LN Bulkhead Locknut ¹

- 0 Straight
- 4 45°
- 9 90°
- A DIN Extra Light Series
- B BSPP Parallel (60° Seat M & F / Female Rigid)
- C DIN Light Series
- D DIN Heavy Series
- E Metric O-Ring Face Seal
- F ORFS (O-Ring Face Seal)
- G BSPP Port Connection (Washer / O-Ring)
- H Metric Port Connection (Washer / O-Ring)
- I Metric Tapered
- J JIC 37° Flare
- K KOMATSU® 30° Flare
- L Fractional Bite-Type Tube
- M Metric Parallel (60° Seats & Female Rigid)
- N NPT
- O SAE O-Ring
- P SAE 45° Flare
- Q Metric 37° Flare
- R Inverted Flare
- S JIS 30° Flare (BSPP-type Threads)
- T BSPT
- U SAE Code 61 Flange
- V Metric Standpipe
- W SAE Code 62 Flange
- X KOBELCO® (French Millimetric)
- Y French GAZ
- Z JIS Flareless

- F Face Seal - BSPP
- G Gauge Conn. - BSPP
- L Long
- LL Extra Long
- LLL Extra Extra Long
- LH Large Hex
- LP Low Profile
- T Tube-type (Swept) Elbow
- V Viton® Seal
- LN Bulkhead Locknut
- SS Stainless Steel
- SW Swivel
- TS Tube Stub
- WD Captive Seal

Sized in 1/16" on Fractional and in Millimeters for Metric.



Style

Run (1)

Run (2)

Branch (3)

Run Size (1)

Run Size (2)

Branch Size (3)

- A Male / Male / Male
- B Male / Male / Female Swivel
- C Male / Female Swivel / Male
- D Female Swivel (All Three Sides)
- E Fem. Swivel / Fem. Swivel / Male
- F Male / Fem. Swivel / Fem. Swivel
- G Female Rigid (All Three Sides)
- H Male / Fem. Rigid / Fem. Rigid
- J Fem. Rigid / Fem. Rigid / Male
- K Male / Male / Fem. Rigid
- L Male / Fem. Rigid / Male
- M F. Swivel / F. Swivel / F. Rigid
- R Male / Male / Male Bulkhead
- S Male / Male Bulkhead / Male
- T Male / Fem. Swivel / Fem. Swivel / Fem. Swivel Cross
- U Male / Fem. Rigid / Fem. Rigid / Fem. Rigid Cross
- V Male / Male / Fem. Rigid / Fem. Rigid Cross
- W Male / Male / Male / Fem. Cross
- X Male Cross
- Y Female Swivel Cross
- Z Female Rigid Cross

Sized in 1/16" on Fractional and in Millimeters for Metric.

¹ Caps, Plugs, Nuts & Sleeves may have only three numbers in the prefix (example : 0CK-22 = 22mm KOMATSU® Cap).



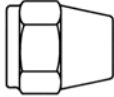


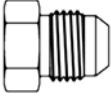
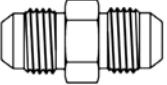
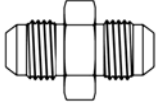
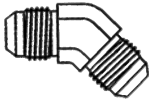
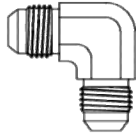
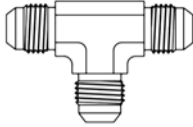
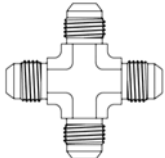
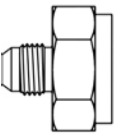
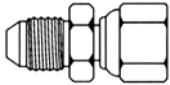
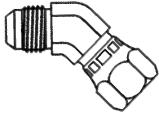
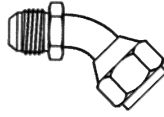
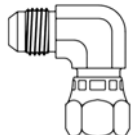
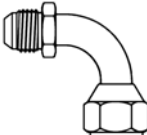
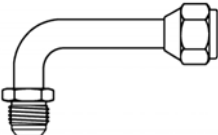
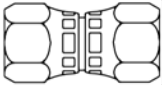
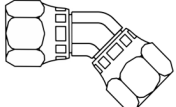
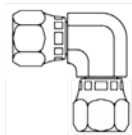
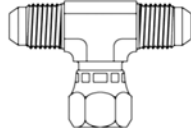
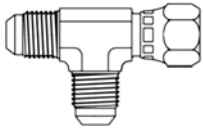
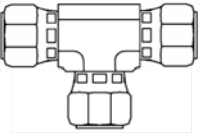
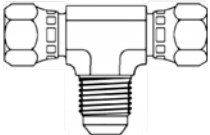
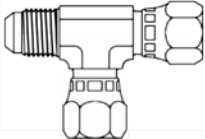
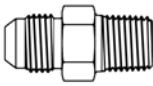
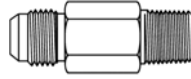
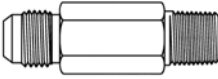
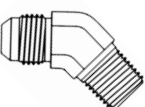
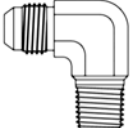
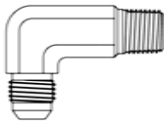
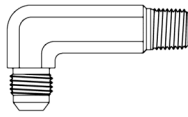
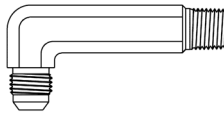

However, Allen-type Plugs will add an "H" directly behind the "P" (Plug) designator (example : 0PHG-04-WD = 1/4" BSPP Allen-type with Captive Seal).

² DIN (12° Extra Light, Light & Heavy) and KOBELCO® sizes are listed by Tube Size, with all other type connection sizes being listed by Thread Size.

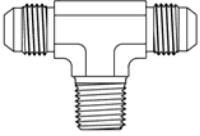
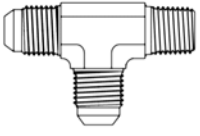
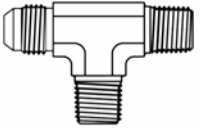
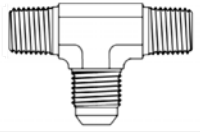
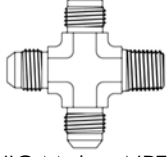
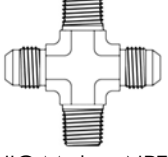
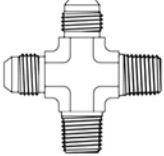
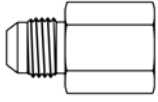
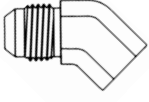
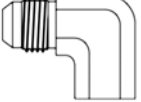
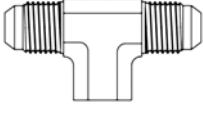
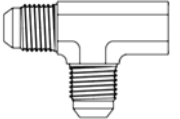
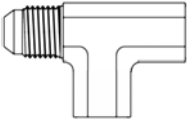
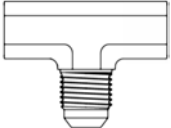
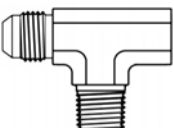
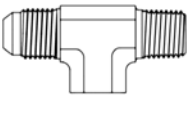
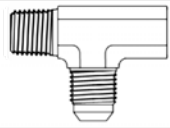
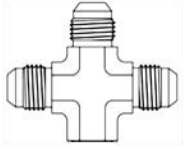
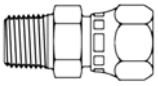
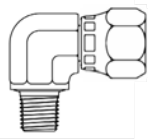
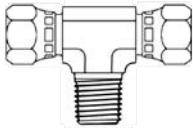
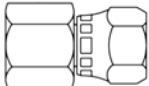
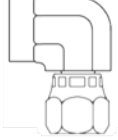
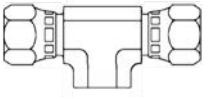
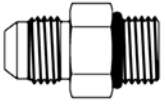

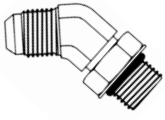
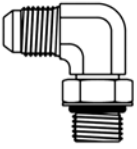
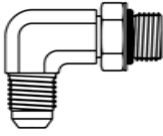
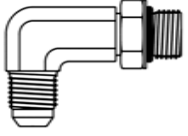
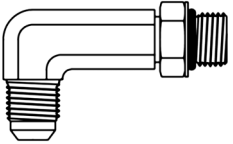
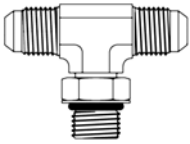
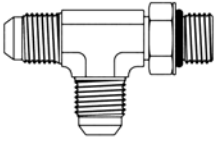
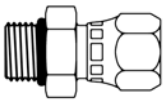
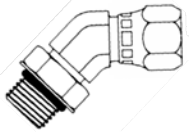
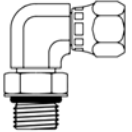
* Braze-on type tube connections will have a prefix of "BO" followed by the style and then the thread termination (example: BO-50J-04-04)

* SAE Flange Adapters have a prefix of "FO" for O-Ring side or "FC" for Companion side followed by the Flange Series then the thread connection (example: FO-UN-12-12)


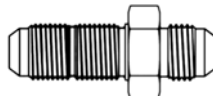
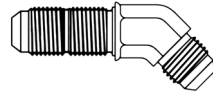
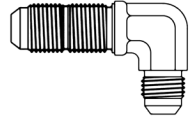
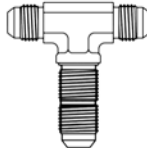
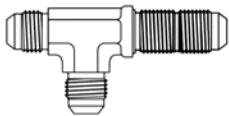
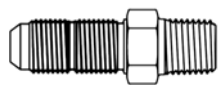
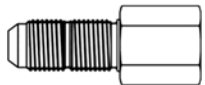
JIC 37° Flare ○ JIC x NPT

<p>OSJ 0319</p>  <p>JIC 37° Flare Sleeve</p>	<p>ONJ 0318</p>  <p>JIC 37° Flare Nut</p>	<p>ONJ-ST 0304</p>  <p>JIC 37° Flare Nut Standard</p>	<p>ONJ-S 0302</p>  <p>JIC 37° Flare Nut Short</p>	<p>OCJ 0304-C</p>  <p>JIC 37° Flare Female Cap</p>	<p>OPJ 2408</p>  <p>JIC 37° Flare Male Plug</p>
<p>10JJ 2403</p>  <p>JIC Male Union</p>	<p>10JJ-LH 2403-LH</p>  <p>JIC Male Union Large Hex</p>	<p>14JJ 2504</p>  <p>JIC Male Union 45°</p>	<p>19JJ 2500</p>  <p>JIC Male Union 90°</p>	<p>AJJJ 2603</p>  <p>JIC Male Union Tee</p>	<p>XJJJJ 2650</p>  <p>JIC Male Cross</p>
<p>50JJ 2406</p>  <p>JIC Male x Female Rigid</p>	<p>20JJ 6504</p>  <p>JIC Male x Female Swivel</p>	<p>24JJ 6502</p>  <p>JIC Male x Female Swivel 45° Elbow</p>	<p>24JJ-T 6702</p>  <p>JIC Male x Fem SvI 45° Swept Tube Elbow</p>	<p>29JJ 6500</p>  <p>JIC Male x Fem Swivel 90° Elbow</p>	<p>29JJ-T 6701</p>  <p>JIC Male x Fem SvI 90° Swept Tube Elbow</p>
<p>29JJ-T-L 6701-L</p>  <p>JIC M x F 90° Swept Tube Elbow Long</p>	<p>30JJ 6565</p>  <p>JIC Female Swivel Union</p>	<p>34JJ</p>  <p>JIC Female Swivel Union 45°</p>	<p>39JJ</p>  <p>JIC Female Swivel Union 90°</p>	<p>BJJJ 6600</p>  <p>JIC Female Swivel Branch Tee</p>	<p>CJJJ 6602</p>  <p>JIC Female Swivel Run Tee</p>
<p>DJJJ 6606</p>  <p>JIC Female Swivel Tee</p>	<p>EJJJ 6603</p>  <p>JIC Fem Swivel x Male Branch Tee</p>	<p>FJJJ</p>  <p>JIC Male Run x Female Swivel Tee</p>	<p>10JN 2404</p>  <p>JIC Male X NPT Male</p>	<p>10JN-L 2404-L</p>  <p>JIC Male x NPT Male Long</p>	<p>10JN-LL 2404-LL</p>  <p>JIC Male x NPT Male Extra Long</p>
<p>14JN 2503</p>  <p>JIC Male x NPT Male 45°</p>	<p>19JN 2501</p>  <p>JIC Male x NPT Male 90°</p>	<p>19JN-L 2501-L</p>  <p>JIC Male x NPT Male 90° Long</p>	<p>19JN-LL 2501-LL</p>  <p>JIC Male x NPT Male 90° X-Long</p>	<p>19JN-LLL 2501-LLL</p>  <p>JIC Male x NPT Male 90° XX-Long</p>	<p>19JN-SW 5701</p>  <p>JIC Male x NPT Male Swivel 90°</p>

JIC x NPT ○ JIC x SAE O-Ring

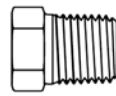

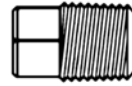
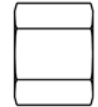
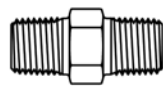
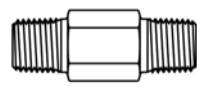

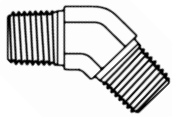
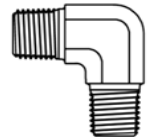

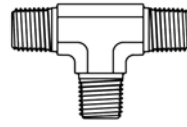

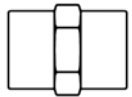


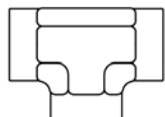
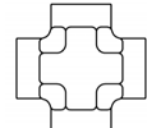
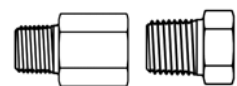
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<p>XJNJN 2654</p>  <p>JIC Male x NPT Male Cross</p>	<p>50JN 2405</p>  <p>JIC Male x NPT Female</p>	<p>54JN 2505</p>  <p>JIC Male x NPT Female 45°</p>	<p>59JN 2502</p>  <p>JIC Male x NPT Female 90°</p>	<p>KJN 2602</p>  <p>JIC Male x NPT Fem Branch Tee</p>	<p>LJNJ 2606</p>  <p>JIC Male x NPT Fem Run Tee</p>
<p>HJNN 2609</p>  <p>JIC Male Run x NPT Female Rigid Tee</p>	<p>JNNJ 2612</p>  <p>NPT Fem Run x JIC Male Branch Tee</p>	<p>LJNN 2608</p>  <p>JIC Male x NPT Fem Run x NPT Male Tee</p>	<p>KJNN 2611</p>  <p>JIC Male x NPT Male Run x NPT Fem Tee</p>	<p>LNNJ 2613</p>  <p>NPT Male x NPT Fem x JIC Male Tee</p>	<p>WJJN 2652</p>  <p>JIC Male x NPT Female Cross</p>
<p>20NJ 6505</p>  <p>NPT Male x JIC Female Swivel</p>	<p>29NJ 6501</p>  <p>NPT Male x JIC Female Swivel 90°</p>	<p>EJN 6604</p>  <p>NPT Male Branch x JIC Fem Swivel Tee</p>	<p>40NJ 6506</p>  <p>NPT Fem x JIC Female Swivel</p>	<p>49NJ 6503</p>  <p>NPT Fem x JIC Female Swivel 90°</p>	<p>MJN 6605</p>  <p>NPT Fem Branch x JIC Fem Swivel Tee</p>
<p>10JO 6400</p>  <p>JIC Male x SAE O-Ring Male</p>	<p>10JO-L 6400-L</p>  <p>JIC Male x SAE O-Ring Male Long</p>	<p>14JO 6802</p>  <p>JIC Male x SAE O-Ring Male Adj. 45°</p>	<p>19JO 6801</p>  <p>JIC Male x SAE O-Ring Male Adj. 90°</p>	<p>19JO-L 6801-L</p>  <p>JIC M x SAE O-Ring Male Adj. 90° Long</p>	<p>19JO-LL 6801-LL</p>  <p>JIC M x SAE O-Ring Male Adj. 90° X-Long</p>
<p>19JO-LLL 6801-LLL</p>  <p>JIC M x SAE O-Ring M Adj. 90° XX-Long</p>	<p>AJJO 6803</p>  <p>JIC Male x SAE O-Ring M Adj. Br. Tee</p>	<p>AJOJ 6804</p>  <p>JIC Male x SAE O-Ring M Adj. Run Tee</p>	<p>20OJ 6402</p>  <p>SAE O-Ring Male x JIC Fem Swivel</p>	<p>24OJ 6810</p>  <p>SAE O-Ring Adj. M x JIC Fem Swivel 45°</p>	<p>29OJ 6809</p>  <p>SAE O-Ring Adj. M x JIC Fem Swivel 90°</p>

JIC Bulkhead

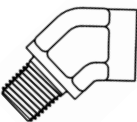
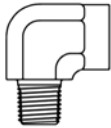
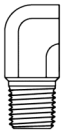
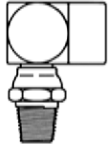
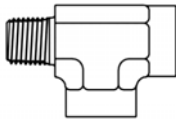
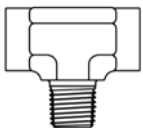
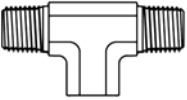
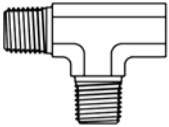
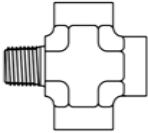
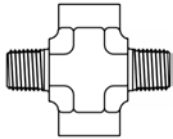
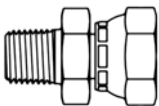
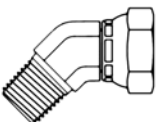
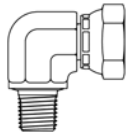
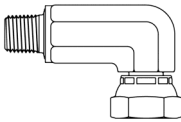
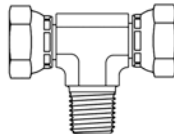
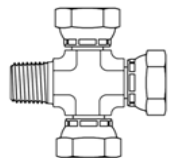
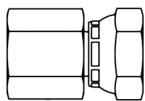
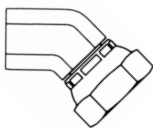
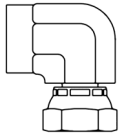
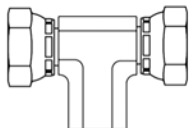
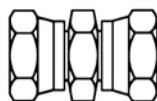
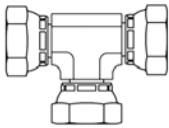
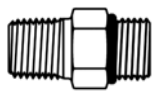
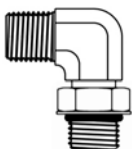
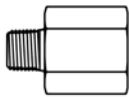
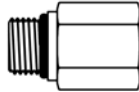
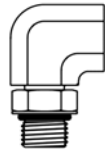
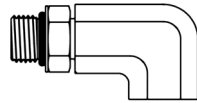
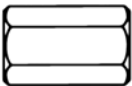
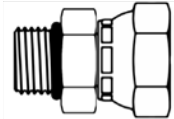
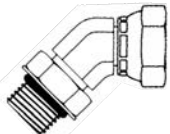
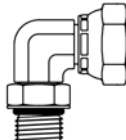
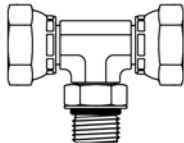
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<p>60JN 2706</p>  <p>JIC Male Bulkhead x NPT Male</p>	<p>80JN 2705</p>  <p>JIC Male Bulkhead x NPT Female</p>				

* Add -LN Suffix for Bulkhead / Locknut Assembly

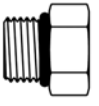
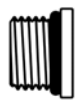

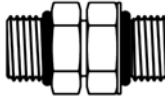
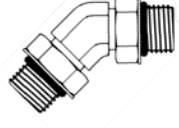
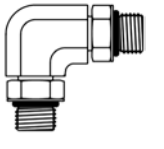
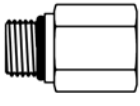
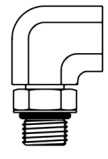
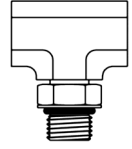
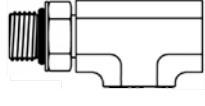
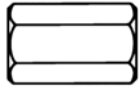
NPT

<p>OPN 5406-P</p>  <p>NPT Male Hex Head Plug</p>	<p>OPHN 5406-HP</p>  <p>NPT Male Allen Hollow Head Plug</p>	<p>OPSN 5406-SHP</p>  <p>NPT Male Square Head Plug</p>	<p>OCN 5406-C</p>  <p>NPT Female Cap</p>	<p>10NN 5404</p>  <p>NPT Male Hex Nipple</p>	<p>10NN-L 5404-L</p>  <p>NPT Male Nipple Long</p>
<p>10NN-P 5404-N</p>  <p>NPT Male Nipple (Threaded Pipe)</p>	<p>14NN 5501</p>  <p>NPT Male x NPT Male 45°</p>	<p>19NN 5500</p>  <p>NPT Male x NPT Male 90°</p>	<p>19NN-SW 5500-S</p>  <p>NPT Male x NPT Male Swivel 90°</p>	<p>ANNN 5600</p>  <p>NPT Male Tee</p>	<p>XNNNN 5650</p>  <p>NPT Male Cross</p>
<p>70NN 5000</p>  <p>NPT Female Rigid Coupling</p>	<p>74NN 5505</p>  <p>NPT Female Rigid Coupling 45°</p>	<p>79NN 5504</p>  <p>NPT Female Rigid Coupling 90°</p>	<p>GNNN 5605</p>  <p>NPT Female Tee</p>	<p>ZNNNN 5652</p>  <p>NPT Female Cross</p>	<p>50NN 5405 / 5406</p>  <p>NPT Male x NPT Female Rigid</p>


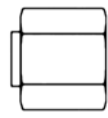
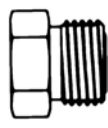
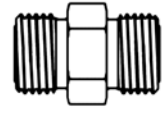
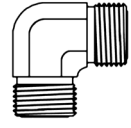
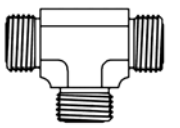
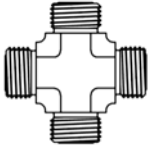
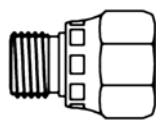
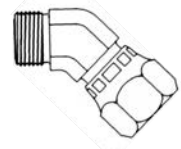
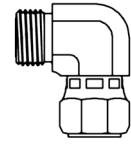
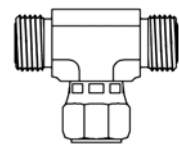
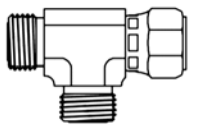
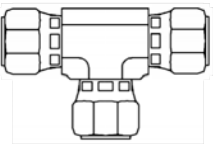
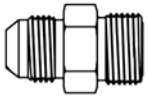
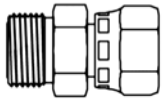
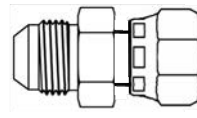
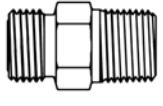
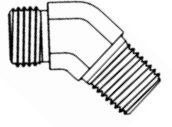
NPT ○ NPT x NPSM ○ NPT & NPSM x SAE O-Ring

<p>54NN 5503</p>  <p>NPT Male x NPT Female Rigid 45°</p>	<p>59NN 5502</p>  <p>NPT Male x NPT Female Rigid 90°</p>	<p>59NN-LP 3051</p>  <p>NPT Male x NPT Fem 90° Low Profile</p>	<p>59NN-SW 5702</p>  <p>NPT Male Swivel x NPT Fem Rigid 90°</p>	<p>HNNN 5602</p>  <p>NPT Male Run x Female Rigid Tee</p>	<p>JNNN 5604</p>  <p>NPT Female x Male Branch Tee</p>
<p>KNNN 5601</p>  <p>NPT Male x Female Branch Tee</p>	<p>LNNN 5603</p>  <p>NPT Male x Female Run Tee</p>	<p>UNNNN 5655</p>  <p>NPT Male x Fem x Fem x Fem Cross</p>	<p>VNNNN 5653</p>  <p>NPT Male x Fem x Male x Fem Cross</p>		
<p>20NN 1404</p>  <p>NPT Male x NPSM Female</p>	<p>24NN 1503</p>  <p>NPT Male x NPSM Female 45°</p>	<p>29NN 1501</p>  <p>NPT Male x NPSM Female 90°</p>	<p>29NN-L 1501-L</p>  <p>NPT Male x NPSM Female 90° Long</p>	<p>ENNN 1601</p>  <p>NPSM Female x NPT Male Branch Tee</p>	<p>TNNNN 1604</p>  <p>NPT Male x Fem NPSM Cross</p>
<p>40NN 1405</p>  <p>NPT Female Rigid x NPSM Female</p>	<p>44NN 1504</p>  <p>NPT Female Rigid x NPSM Female 45°</p>	<p>49NN 1502</p>  <p>NPT Female Rigid x NPSM Female 45°</p>	<p>MNNN 1602</p>  <p>NPSM Female x NPT Female Tee</p>	<p>30NN 1406</p>  <p>NPSM Female Swivel Union</p>	<p>DNNN 1603</p>  <p>NPSM Female Swivel Union Tee</p>
<p>10NO 6401-O</p>  <p>NPT Male x SAE O-Ring Male</p>	<p>19NO 6806</p>  <p>NPT Male x SAE O-Ring Female 90°</p>	<p>50NO 6404</p>  <p>NPT Male x SAE O-Ring Female</p>	<p>50ON 6405-O</p>  <p>SAE O-Ring Male x NPT Female Rigid</p>	<p>59ON 6805-NWO</p>  <p>SAE O-Ring Male Adj. x NPT Fem 90°</p>	<p>59ON-L 6805-L-NWO</p>  <p>SAE O-Ring Male Adj. x NPT Fem 90° L</p>
<p>70NO 6420</p>  <p>SAE O-Ring Female X NPT Female</p>	<p>20ON 6900-O</p>  <p>SAE O-Ring Male x NPSM Female</p>	<p>24ON 6902-NWO</p>  <p>SAE O-Ring M Adj. x NPSM Female 45°</p>	<p>29ON 6901-NWO</p>  <p>SAE O-Ring M Adj. x NPSM Female 90°</p>	<p>ENNO 1601</p>  <p>NPT Male Branch x Fem NPSM Tee</p>	

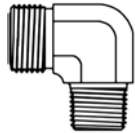
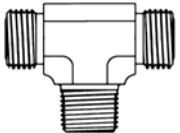
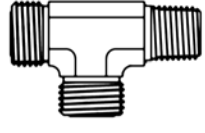
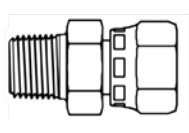
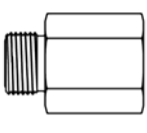
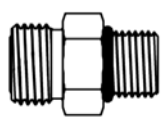
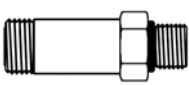
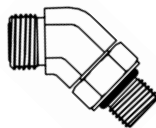
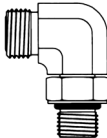
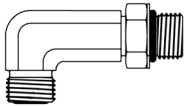
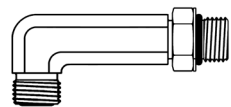
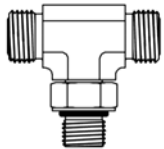
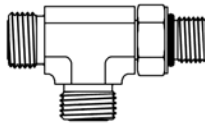
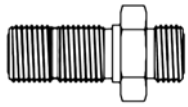
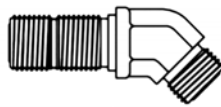
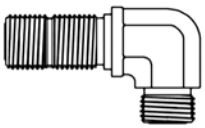
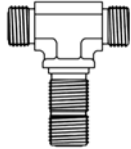
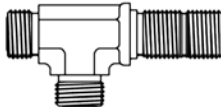
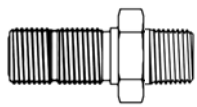
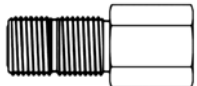

SAE O-Ring

<p>0PO 6408</p>  <p>SAE O-Ring Hex Head Plug</p>	<p>0PHO 6408-H</p>  <p>SAE O-Ring Allen-type Hollow Plug</p>	<p>1000 6464</p>  <p>SAE O-Ring Male Union</p>	<p>1000-A 3474</p>  <p>SAE O-Ring Male Union Adjustable</p>	<p>1400 6808</p>  <p>SAE O-Ring Male Union 45°</p>	<p>1900 6807</p>  <p>SAE O-Ring Male Union 90°</p>
<p>5000 6410</p>  <p>SAE O-Ring Male x Female</p>	<p>5900 6815</p>  <p>SAE O-Ring Male x Female 90°</p>	<p>J000 6832</p>  <p>SAE O-Ring Male Branch Tee</p>	<p>H000 6835</p>  <p>SAE O-Ring Male Run Tee</p>	<p>7000 6425</p>  <p>SAE O-Ring Female Coupling</p>	

ORS (Flat Face O-Ring) ○ ORS x JIC ○ ORS x NPT


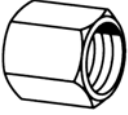
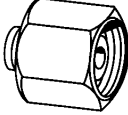
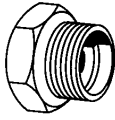
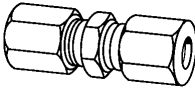
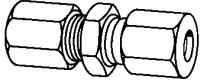
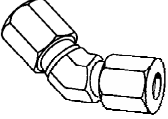
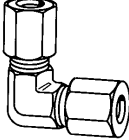
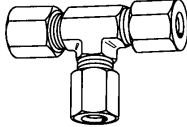
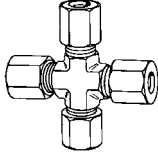
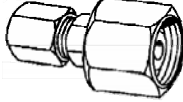
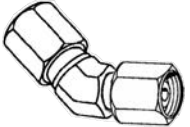
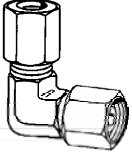
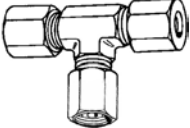
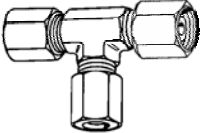
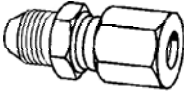
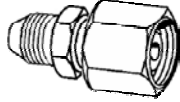
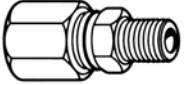
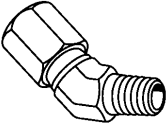
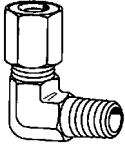
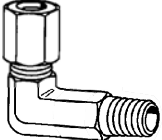
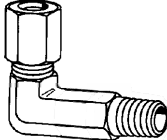
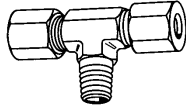
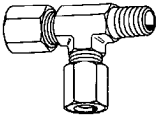
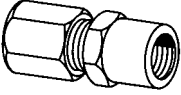
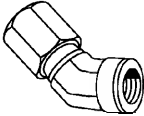
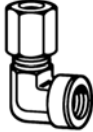
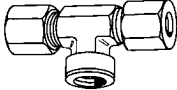
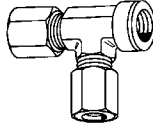
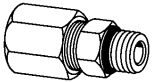
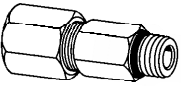
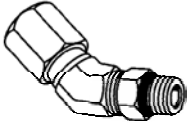
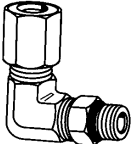
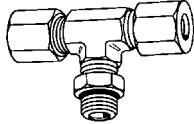
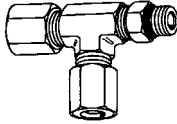
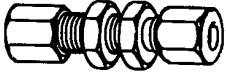
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<p>XFFFF FS2650</p>  <p>ORS Male Union Cross</p>	<p>20FF FS2406</p>  <p>ORS Male x ORS Female Swivel</p>	<p>24FF FS6502</p>  <p>ORS Male x Female Swivel 45°</p>	<p>29FF FS6500</p>  <p>ORS Male x Female Swivel 90°</p>	<p>BFFF FS6600</p>  <p>ORS Female Swivel Branch Tee</p>	<p>CFFF FS6602</p>  <p>ORS Female Swivel Run Tee</p>
<p>DFFF FS6606</p>  <p>ORS Female Swivel Union Tee</p>	<p>10JF FS6403</p>  <p>JIC Male x ORS Male</p>	<p>20FJ FS6402</p>  <p>ORS Male x JIC Female Swivel</p>	<p>20JF FS6504</p>  <p>JIC Male x ORS Female Swivel</p>	<p>10FN FS2404</p>  <p>ORS Male x NPT Male</p>	<p>14FN FS2503</p>  <p>ORS Male x NPT Male 45°</p>

ORS x NPT ○ ORS x SAE O-Ring ○ ORS Bulkhead

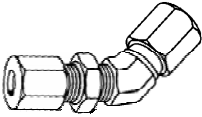
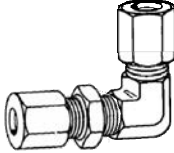
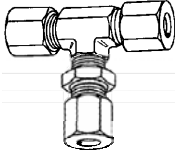
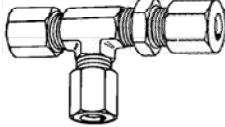
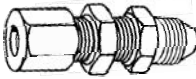
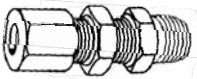
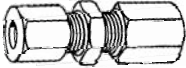
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<p>10FO-L FS6400-L-O</p>  <p>ORS Male x SAE O- Ring Male Long</p>	<p>14FO FS6802-NWO</p>  <p>ORS Male x SAE O-Ring M Adj. 45°</p>	<p>19FO FS6801-NWO</p>  <p>ORS Male x SAE O-Ring M Adj. 90°</p>	<p>19FO-L FS6801-L-NWO</p>  <p>ORS M x SAE O-Ring M Adj. 90° Long</p>	<p>19FO-LL FS6801-LL-NWO</p>  <p>ORS M x SAE O-Ring M Adj. 90° X-Long</p>	<p>AFFO FS6803</p>  <p>ORS x SAE O-Ring Adj. Branch Tee</p>
<p>AFOF FS6804</p>  <p>ORS x SAE O-Ring Adj. Run Tee</p>	<p>60FF FS2700</p>  <p>ORS Male Bulkhead Union</p>	<p>64FF FS2702</p>  <p>ORS Male Bulkhead Union 45°</p>	<p>69FF FS2701</p>  <p>ORS Male Bulkhead Union 90°</p>	<p>RFFF FS2703</p>  <p>ORS Male Bulkhead Branch Tee</p>	<p>SFFF FS2704</p>  <p>ORS Male Bulkhead Run Tee</p>
<p>60FN FS2706</p>  <p>ORS Male Bulkhead x NPT Male</p>	<p>80FF FS2705</p>  <p>ORS Male Bulkhead x NPT Female</p>	<p>OLNF FS0306</p>  <p>ORS Bulkhead Nut</p>			

* Add -LN Suffix for Bulkhead / Locknut Assembly

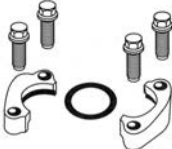


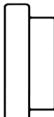
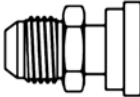
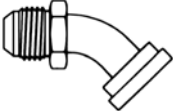
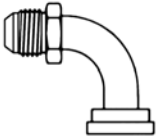
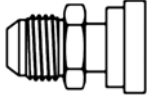
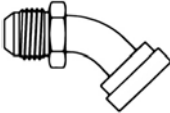
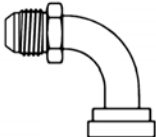
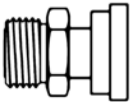
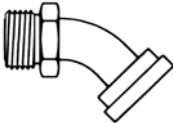
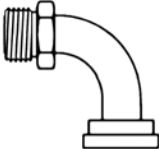
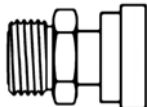
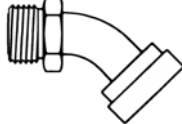
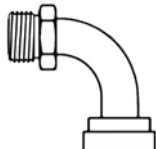
Flareless Tube (Fractional Bite Type)

<p>OSL C0319</p>  <p>Fractional Tube Bite Type Sleeve</p>	<p>ONL C0318</p>  <p>Fractional Tube Bite Type Nut</p>	<p>OCL C0304-C</p>  <p>Tube Bite Type Cap</p>	<p>OPL C2408</p>  <p>Tube Bite Type Plug</p>	<p>10LL C2403</p>  <p>Tube Bite Type Union</p>	<p>10LL-LH C2403-LH</p>  <p>Tube Bite Type Union Large Hex</p>
<p>14LL C2504</p>  <p>Tube Bite Type Union 45°</p>	<p>19LL C2500</p>  <p>Tube Bite Type Union 90°</p>	<p>ALLL C2603</p>  <p>Tube Bite Type Union Tee</p>	<p>XLLLL C2650</p>  <p>Tube Bite Type Union Cross</p>	<p>20LL C2406</p>  <p>Tube Bite Type Reducer / Increaser</p>	<p>24LL C6502</p>  <p>Tube Bite Type Male x Female 45°</p>
<p>29LL C6500</p>  <p>Tube Bite Type x Female 90°</p>	<p>BLLL C6600</p>  <p>Tube Bite Type Female Branch Tee</p>	<p>CLLL C6602</p>  <p>Tube Bite Type Female Run Tee</p>	<p>10JL C2402</p>  <p>JIC Male x Tube Bite Type</p>	<p>20JL</p>  <p>JIC Male x Female Bite Type</p>	<p>10LN C2404</p>  <p>Fractional Tube Bite Type x NPT Male</p>
<p>14LN C2503</p>  <p>Fractional Tube Bite Type x NPT Male 45°</p>	<p>19LN C2501</p>  <p>Fractional Tube Bite Type x NPT Male 90°</p>	<p>19LN-L C2501-L</p>  <p>Fractional Tube Bite Type x NPT Male 90°</p>	<p>19LN-LL C2501-LL</p>  <p>Fractional Tube Bite Type x NPT Male 90°</p>	<p>ALLN C2601</p>  <p>Tube Bite Type x NPT Male Branch Tee</p>	<p>ALNL C2605</p>  <p>NPT Male Run x Tube Bite Type Tee</p>
<p>50LN C2405</p>  <p>Tube Bite Type x NPT Female</p>	<p>54LN C2505</p>  <p>Tube Bite Type x NPT Female 45°</p>	<p>59LN C2502</p>  <p>Tube Bite Type x NPT Female 90°</p>	<p>KLLN C2602</p>  <p>Tube Bite Type x NPT Female Branch Tee</p>	<p>LLNL C2606</p>  <p>Tube Bite Type x NPT Female Run Tee</p>	<p>10LO C6400-O</p>  <p>Tube Bite Type x SAE O-Ring Male</p>
<p>10LO-L C6400-L-O</p>  <p>Tube Bite Type x SAE O-Ring Male Long</p>	<p>14LO C6802</p>  <p>Tube Bite Type x SAE O-Ring Male Adj. 45°</p>	<p>19LO C6801</p>  <p>Tube Bite Type x SAE O-Ring Male Adj. 90°</p>	<p>ALLO C6803</p>  <p>Bite Type x SAE O-Ring M Adj. Br. Tee</p>	<p>ALOL C6804</p>  <p>Bite Type x SAE O-Ring M Adj. Run Tee</p>	<p>60LL C2700</p>  <p>Tube Bite Type Bulk-head x Tube BT 45°</p>

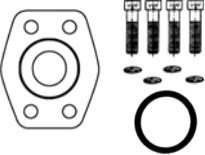
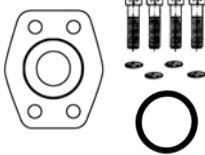


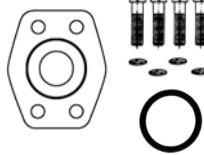
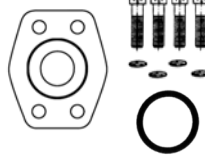


Flareless Tube (Fractional Bite Type)

<p>64LL C2702</p>  <p>Tube Bite Type Bulk-head x Tube BT 45°</p>	<p>69LL C2701</p>  <p>Tube Bite Type Bulk-head x Tube BT 90°</p>	<p>RLLL C2703</p>  <p>Tube Bite Type Bulk-head x BT Br Tee</p>	<p>SLLL C2704</p>  <p>Tube Bite Type Bulk-head x BT Run Tee</p>	<p>60LJ</p>  <p>Tube Bite Type Bulk-head x JIC Male</p>	<p>60LN C2706</p>  <p>Tube Bite Type Bulk-head x NPT Male</p>
<p>80LN C2705</p>  <p>Tube Bite Type Bulk-head x NPT Female</p>					

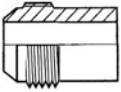
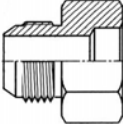
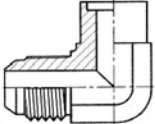
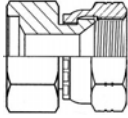
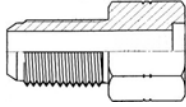
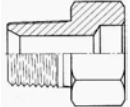
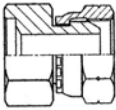
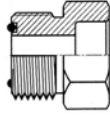
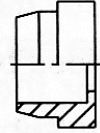


SAE Split Flange

<p>OSFU-K SF-K</p>  <p>Code 61 SAE Split Flange Kit</p>	<p>OSFW-K SFX-K</p>  <p>Code 62 SAE Split Flange Kit</p>	<p>OPU FP</p>  <p>Code 61 Split Flange Plug (Blank)</p>	<p>OPW FPX</p>  <p>Code 62 Split Flange Plug (Blank)</p>	<p>10JU 1700</p>  <p>Male JIC x Code 61 Split Flange</p>	<p>14JU 1703</p>  <p>Male JIC x Code 61 Split Flange 45°</p>
<p>19JU 1704</p>  <p>Male JIC x Code 61 Split Flange 90°</p>	<p>10JW 1800</p>  <p>Male JIC x Code 62 Split Flange</p>	<p>14JW 1803</p>  <p>Male JIC x Code 62 Split Flange 45°</p>	<p>19JW 1804</p>  <p>Male JIC x Code 62 Split Flange 90°</p>	<p>10FU FS1700</p>  <p>Male ORS x Code 61 Split Flange</p>	<p>14FU FS1703</p>  <p>Male ORS x Code 61 Split Flange 45°</p>
<p>19FU FS1704</p>  <p>Male ORS x Code 61 Split Flange 90°</p>	<p>10FW FS1800</p>  <p>Male ORS x Code 62 Split Flange</p>	<p>14FW FS1803</p>  <p>Male ORS x Code 62 Split Flange 45°</p>	<p>19FW FS1804</p>  <p>Male ORS x Code 62 Split Flange 90°</p>		

SAE Flange

<p>FO-UN-K W43</p>  <p>Code 61 Flange Ported NPT + Kit</p>	<p>FO-WN-K W44</p>  <p>Code 62 Hange Ported NPT + Kit</p>	<p>FC-UN W104</p>  <p>Code 61 Companion Flange x FNPT</p>	<p>FC-WN W45</p>  <p>Code 61 Companion Flange x FNPT</p>	<p>FO-UO-K W46</p>  <p>Code 61 Flange x SAE O-Ring Fem + Kit</p>	<p>FO-WO-K W48</p>  <p>Code 62 Flange x SAE O-Ring Fem + Kit</p>
<p>FC-UO-K W106</p>  <p>Code 62 Companion Flange x SAEOR</p>	<p>FC-WO-K W49</p>  <p>Code 62 Companion Flange x SAEOR</p>				

Braze On

<p>10JVF 0403-TS</p>  <p>Braze Tube Bore JIC Male Tube Spud</p>	<p>50JVF 0403</p>  <p>Braze Tube Bore JIC Male</p>	<p>59JVF 0500</p>  <p>Braze Tube Bore JIC Male 90°</p>	<p>40JVF 0900</p>  <p>Braze Tube Bore NPT Female</p>	<p>80JVF 0406</p>  <p>Braze Tube Bore JIC Bulkhead Male</p>	<p>50NVF 0404</p>  <p>Braze Tube Bore NPT Male</p>
<p>40VFN 0800</p>  <p>Braze Tube Bore NPSM Female</p>	<p>50FVF FS0403</p>  <p>Braze Tube Bore ORS Male</p>	<p>40VFF FS0319</p>  <p>Braze Tube Bore ORS Male</p>	<p>50UVF</p>  <p>Braze Tube Bore Code 61 Flange</p>	<p>50WVF</p>  <p>Braze Tube Bore Code 62 Flange</p>	

Foreign Connection Identification

International connection identification can be difficult. Although the information in this section can be helpful, you must have the proper tools in order to make an accurate identification. The main tools are caliper, thread pitch gauges, and seat angle gauges. When identifying international connections, there are certain steps that should be taken to ensure an accurate identification.

1. If possible, determine the brand of equipment and / or the country of manufacture.
2. Determine what it connects (female swivel, male flare, etc...) and the sealing method (flare, cone, o-ring, etc...)
3. Determine the thread dimension, thread pitch, tube dimension (if applicable) and seat angle
4. Compare your measurements with the charts.
5. Verify with a mating coupling.

Country of Origin	Common Swivel or Tube Connections	Code (Section)	Common Port Connections	Code (Section)
Great Britain	BSPP 30° / 60° Cone Seat	B	BSPP (External Seal) BSPT	G T
Germany, Sweden	DIN 12° / 24° (LL, L & S Series) DIN 30° / 60° O-Ring Face Seal (BSPP Threads)	A, B, C M R	Whitworth Fractional (BSPP) Whitworth Fractional (BSPT) Whitworth Metric Parallel Whitworth Metric Tapered Split Flange (Code 61 / 62)	G T H I
France	Millimétrique GAZ	X Y	Metric Parallel Port Poclain Flange	H
Japan, Korea	JIS 30° Flare (BSPP Threads) KOMATSU® - JIS 30° Flare Metric JIS 30° / 60° Cone (BSPP) JIS 30° / 60° Cone (Metric) KOBELCO® (French Millimétrique)	S K B M X	JIS Parallel Port (BSPP) JIS Tapered Port (BSPT) JIS Parallel Metric JIS Tapered Metric Split Flange (Code 61 / 62)	G T H I
China	37° Flare Metric Threads O-Ring Face Seal Metric Threads	Q E	Metric Port	H

External Sealing (Generally Port)- O-Ring / O-Ring & Washer / Bonded Seal / Metal Seal / Cutting Face

- BSPP / JIS / ISO Parallel
- DIN (Whitworth Metric Threads & BSPP Threads)
- SAE O-Ring
- Split Flange (Code 61, Code 62, "Cat" Flange)



Thread Sealing - Tapered or Conical Threads - Sealing by Thread Interference

- NPT
- BSPT / ISO Tapered / JIS Tapered Pipe / Whitworth Tapered
- Metric Tapered Pipe Thread



Internal Angle Sealing - Female Flare - 30°, 37°, & 45° Flare

- JIS 30° Flare (BSPP Threads & Metric Threads—KOMATSU®)
- JIC 37° Flare, SAE 45° Flare
- 37° Flare Metric



Internal Angle Sealing - Female Cone / Tube Assembly - 12°, 30° & 12° Bite-Type

- DIN 12° / 24°
- JIS Flareless
- Millimétrique & GAZ



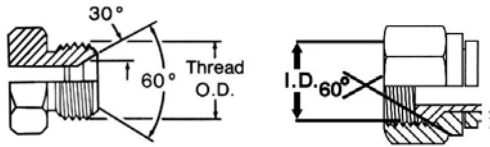
Internal "Flat Face" Sealing - With O-Ring or Washer Seal

- ORFS
- BSPP
- Metric Threads



Foreign Connection Identification - Thread Charts

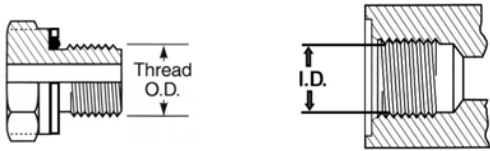
60° Cone ○ Parallel Port ○ Tapered ○ 30° Flare ○ O-Ring Face Seal ○ 37° Flare



60° Cone Seat

BSPP = **B**

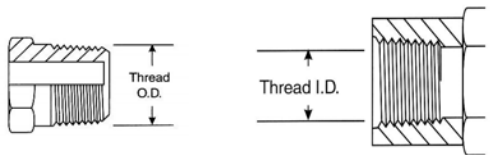
Metric = **M**



Parallel Port

BSPP = **G**

Metric = **H**



Tapered Thread

BSPT = **T**

Metric = **I**



30° Flare

JIS (BSPP) = **S**

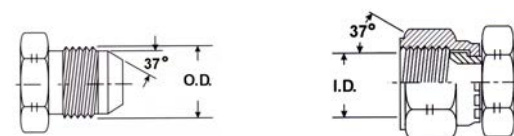
KOMATSU® = **K**



O-Ring Face Seal

BSPP = *****

Metric = **E**



37° Flare

Chinese Metric = **Q**

B	G	T	*	S	Dash Size	Nom. Size	Thread Pitch	Male O.D. (Inches)	Female I.D. (Inches)
♦	♦	♦		♦	2	1/8	28	.375	.344
♦	♦	♦	♦	♦	4	1/4	19	.531	.469
♦	♦	♦	♦	♦	6	3/8	19	.656	.594
♦	♦	♦	♦	♦	8	1/2	14	.813	.750
♦		♦	♦		10	5/8	14	.906	.813
♦	♦	♦	♦	♦	12	3/4	14	1.031	.969
♦	♦	♦	♦	♦	16	1	11	1.344	1.219
♦	♦	♦	♦	♦	20	1¼	11	1.656	1.531
♦	♦	♦		♦	24	1½	11	1.875	1.781
♦		♦		♦	32	2	11	2.334	2.219
♦		♦			40	2½	8	2.950	2.860
♦		♦			48	3	8	3.460	3.360

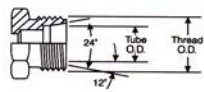
M	H	I	K	E	Q	Dash Size	Thread Pitch	Male O.D. (mm)	Female I.D. (mm)
♦		♦				8	1.0	8	6.5
♦	♦	♦	♦		♦	10	1.0	10	8.5
♦		♦				10A	1.25	10	8.5
♦						10B	1.5	10	8.5
♦		♦				12A	1.0	12	10.5
♦		♦		♦		12B	1.25	12	10.5
♦	♦	♦	♦		♦	12	1.5	12	10.5
♦	♦	♦	♦	♦	♦	14	1.5	14	12.5
♦	♦	♦	♦	♦	♦	16	1.5	16	14.5
♦	♦	♦	♦	♦	♦	18	1.5	18	16.5
♦	♦	♦	♦	♦	♦	20	1.5	20	18.5
♦	♦	♦	♦	♦	♦	22	1.5	22	20.5
♦	♦		♦		♦	24	1.5	24	22.5
♦	♦					26	1.5	26	24.5
♦						27D	1.5	27	25.5
♦	♦			♦	♦	27	2.0	27	25.5
♦				♦		30D	1.5	30	28
♦			♦		♦	30	2.0	30	28
♦						33D	1.5	33	31
♦	♦		♦		♦	33	2.0	33	31
			♦	♦		36	2.0	36	34
			♦	♦		39	2.0	39	37
♦	♦			♦		42	2.0	42	40
				♦		45	2.0	45	43
♦	♦					48	2.0	48	46
♦				♦		52	2.0	52	50
♦				♦		60	2.0	60	58
				♦		64	2.0	64	62

*Special Code B-F (example: 10JB-08-08-F)

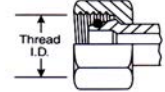
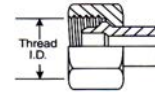
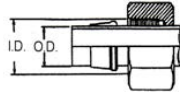
Foreign Connection Identification - Thread Charts

12° / 24° Tube / Cone Seat Thread Chart

The following are the popular 12° / 24° (1/2 angle / whole angle) connections. Each have a common male that can mate with any of three different types of females. DIN are German. Millimetrique and GAZ are French. JIS is Japanese.



Male mates with all three types of Female



Male

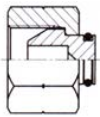
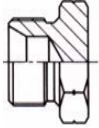
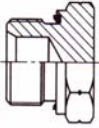
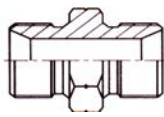
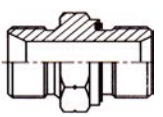
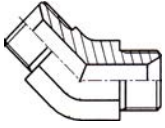
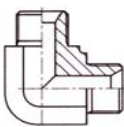
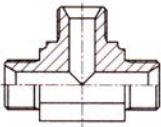
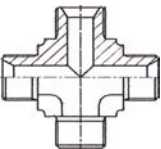
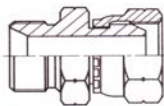
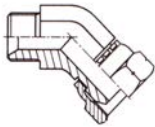
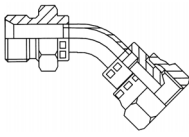
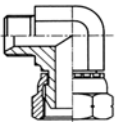
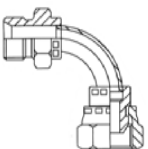
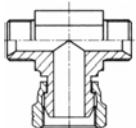
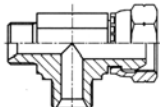
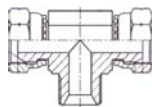
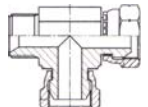
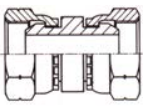
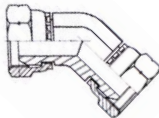
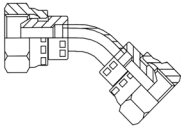
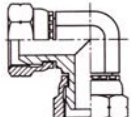
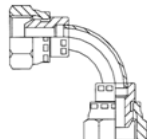
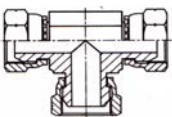
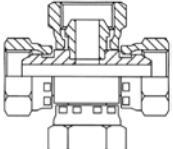
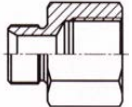
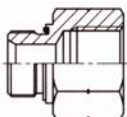
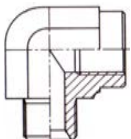
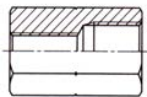

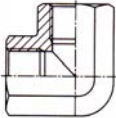
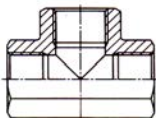
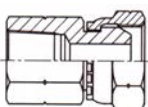
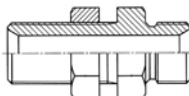
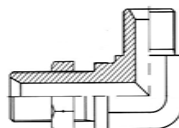

Female Tube Assembly

Female Cone Style


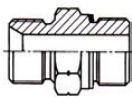

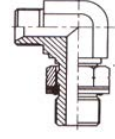
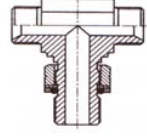
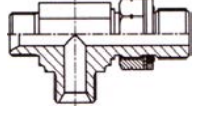
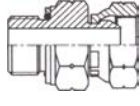
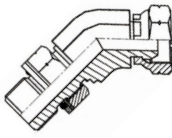
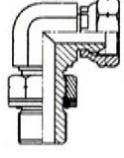
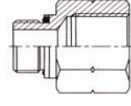
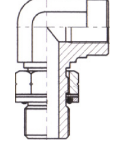
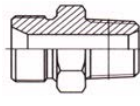
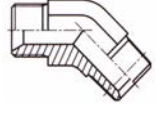
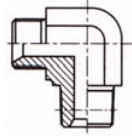
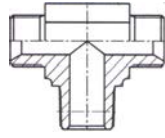
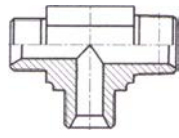
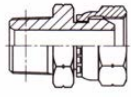
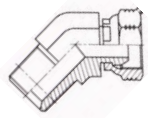
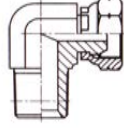
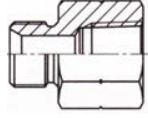
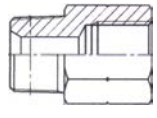
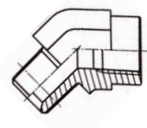
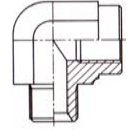
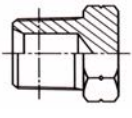
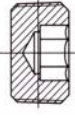
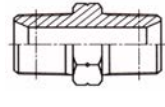
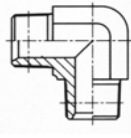
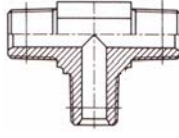
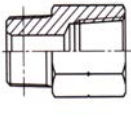
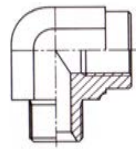
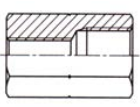
Female O-Ring Cone Style

Tube Pipe O.D.	DIN LL A		DIN L C		DIN S D		Millimetrique X		GAZ Y		JIS Z	
	O.D & Pitch	Fem. I.D.	O.D & Pitch	Fem. I.D.	O.D & Pitch	Fem. I.D.	O.D & Pitch	Fem. I.D.	O.D & Pitch	Fem. I.D.	O.D & Pitch	Fem. I.D.
4	8x1.0	6.5	°	°	°	°	°	°	°	°	°	°
6	10x1.0	8.5	12x1.5	10.5	14x1.5	12.5	12x1.0	11	°	°	12x1.5	10.5
8	12x1.0	10.5	14x1.5	12.5	16x1.5	14.5	14x1.5	12.5	°	°	14x1.5	12.5
10	14x1.0	12.5	16x1.5	14.5	18x1.5	16.5	16x1.5	14.5	°	°	16x1.5	14.5
10.5	°	°	°	°	°	°	°	°	°	°	16x1.5	14.5
12	16x1.0	14.5	18x1.5	16.5	20x1.5	18.5	18x1.5	16.5	°	°	18x1.5	16.5
13.25	°	°	°	°	°	°	°	°	20x1.5	18.5	°	°
13.8	°	°	°	°	°	°	°	°	°	°	20x1.5	18.5
14	°	°	°	°	22x1.5	20.5	20x1.5	18.5	°	°	°	°
15	°	°	22x1.5	20.5	°	°	22x1.5	20.5	°	°	22x1.5	20.5
16	°	°	°	°	24x1.5	22.5	24x1.5	22.5	°	°	24x1.5	22.5
16.75	°	°	°	°	°	°	°	°	24x1.5	22.5	°	°
17.3	°	°	°	°	°	°	°	°	°	°	26x1.5	24.5
18	°	°	26x1.5	24.5	°	°	27x1.5	25.5	°	°	26x1.5	24.5
20	°	°	°	°	30x2.0	28	27x1.5	25.5	°	°	28x1.5	26.5
21.25	°	°	°	°	°	°	°	°	30x1.5	28	°	°
21.7	°	°	°	°	°	°	°	°	°	°	30x1.5	28
22	°	°	30x2.0	28	°	°	30x1.5	28	°	°	30x1.5	28
25	°	°	°	°	36x2.0	34	33x1.5	30	°	°	35x1.5	33
26.75	°	°	°	°	°	°	°	°	36x1.5	34	°	°
27.2	°	°	°	°	°	°	°	°	°	°	38x1.5	36
28	°	°	36x2.0	34	°	°	36x1.5	34	°	°	38x1.5	36
30	°	°	°	°	42x2.0	40	39x1.5	37	°	°	40x1.5	38
32	°	°	°	°	°	°	42x1.5	40	°	°	42x1.5	40
33.5	°	°	°	°	°	°	°	°	45x1.5	43	°	°
34	°	°	°	°	°	°	°	°	°	°	45x1.5	43
35	°	°	45x2.0	43	°	°	45x1.5	43	°	°	45x1.5	43
38	°	°	°	°	52x2.0	50	48x1.5	46	°	°	48x1.5	43
40	°	°	°	°	°	°	52x1.5	50	°	°	52x2.0	50
42	°	°	52x2.0	50	°	°	°	°	°	°	52x2.0	50
42.25	°	°	°	°	°	°	°	°	52x1.5	50	°	°
42.7	°	°	°	°	°	°	°	°	°	°	56x2.0	54
45	°	°	°	°	°	°	54x2.0	52	°	°	°	°
48	°	°	°	°	°	°	58x2.0	55	°	°	°	°
48.25	°	°	°	°	°	°	°	°	58x2.0	55	°	°
48.6	°	°	°	°	°	°	°	°	°	°	64x2.0	62
50	°	°	°	°	°	°	°	°	°	°	64x2.0	62

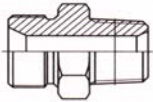
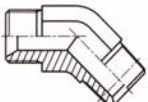
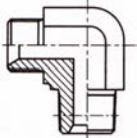
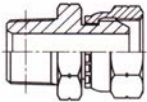
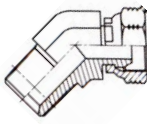
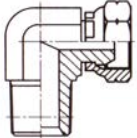
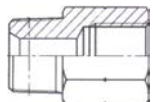
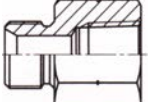
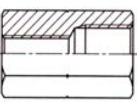
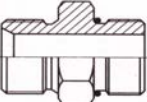
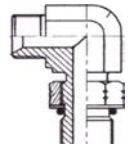
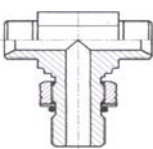
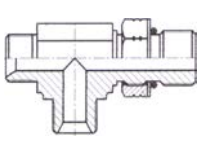
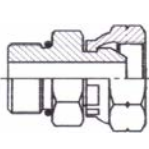
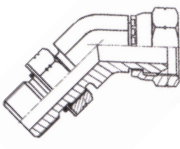
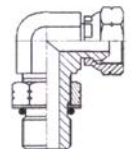
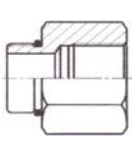
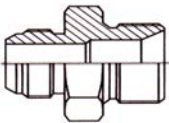
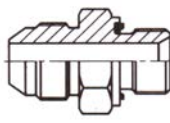
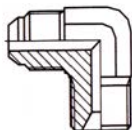
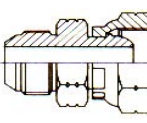
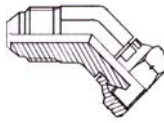
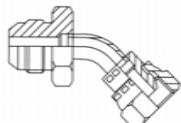
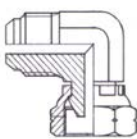
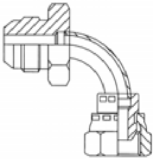
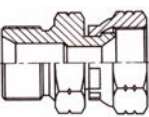
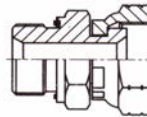
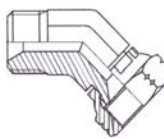
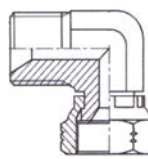
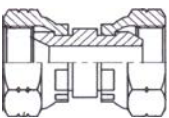
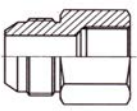

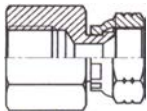
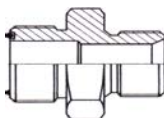
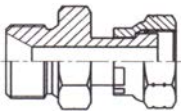
BSPP (60° Seat)

<p>OCB</p>  <p>BSPP Female Cap 60° Cone Seat</p>	<p>OPB</p>  <p>BSPP Male Plug 60° Cone Seat</p>	<p>OPB-WD</p>  <p>BSPP Male Plug Dual Purpose (Captive Seal)</p>	<p>10BB</p>  <p>BSPP Male Union 60° Seats</p>	<p>10BB-WD</p>  <p>BSPP Male Union 60° Seats + Captive Seal</p>	<p>14BB</p>  <p>BSPP Male Union 45°</p>
<p>19BB</p>  <p>BSPP Male Union 90°</p>	<p>ABBB</p>  <p>BSPP Male Union Tee</p>	<p>XBBBB</p>  <p>BSPP Male Union Cross</p>	<p>20BB</p>  <p>BSPP Male x Female Swivel</p>	<p>24BB</p>  <p>BSPP Male x Female Swivel 45°</p>	<p>24BB-T</p>  <p>BSPP Male x Fem Swivel 45° Tube Type</p>
<p>29BB</p>  <p>BSPP Male x Female Swivel 90°</p>	<p>29BB-T</p>  <p>BSPP Male x Fem Swivel 90° Tube Type</p>	<p>BBBB</p>  <p>BSPP Female Swivel Branch Tee</p>	<p>CBBB</p>  <p>BSPP Female Swivel Run Tee</p>	<p>EBBB</p>  <p>BSPP Male Branch Tee</p>	<p>FBBB</p>  <p>BSPP Male Run Tee</p>
<p>30BB</p>  <p>BSPP Female Swivel Union</p>	<p>34BB</p>  <p>BSPP Female Swivel Union 45°</p>	<p>34BB-T</p>  <p>BSPP Fem Swivel Union 45° Tube</p>	<p>39BB</p>  <p>BSPP Female Swivel Union 90°</p>	<p>39BB-T</p>  <p>BSPP Fem Swivel Union 90° Tube</p>	<p>DBBB</p>  <p>BSPP Fem Swivel Union Tee</p>
<p>YBBB</p>  <p>BSPP Fem Swivel Cross</p>	<p>50BB</p>  <p>BSPP Male x Female Rigid</p>	<p>50BB-WD</p>  <p>BSPP Male x Female Rigid + Captive Seal</p>	<p>59BB</p>  <p>BSPP Male x Female Rigid 90°</p>	<p>70BB</p>  <p>BSPP Female Rigid Coupling</p>	<p>74BB</p>  <p>BSPP Female Rigid Coupling 45°</p>
<p>79BB</p>  <p>BSPP Female Rigid Coupling 90°</p>	<p>GBBB</p>  <p>BSPP Female Rigid Coupling 90°</p>	<p>40BB</p>  <p>BSPP Female Rigid x Female Swivel</p>	<p>60BB</p>  <p>BSPP Male Bulkhead Union</p>	<p>69BB</p>  <p>BSPP Male Bulkhead Union 90°</p>	<p>OLNB</p>  <p>BSPP Male Bulkhead Locknut</p>

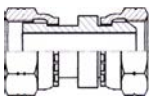

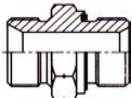
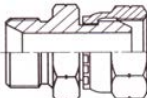
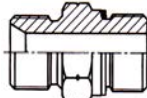
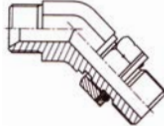
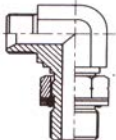
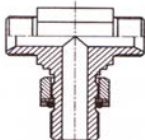
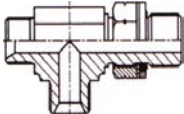
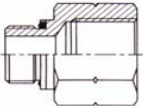
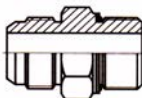
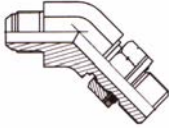
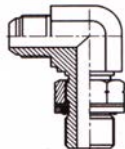
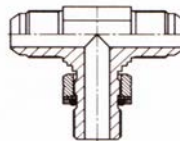
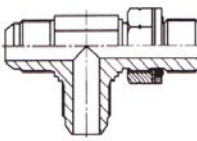
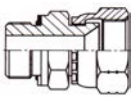
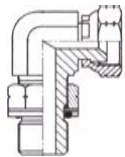
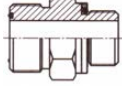
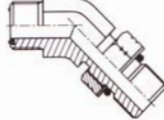
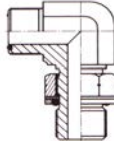
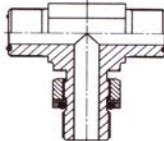
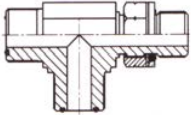
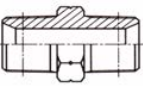
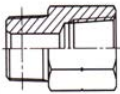
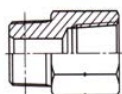
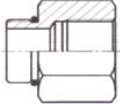
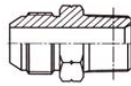

BSPP (60° Seat) ○ BSPP Port ○ BSPT

<p>OPHG-WD</p>  <p>BSPP Male Port Plug with Captive Seal</p>	<p>10BG</p>  <p>BSPP Male 60° x BSPP Male Port</p>	<p>14BG</p>  <p>BSPP Male 60° x BSPP Male Adj. 45°</p>	<p>19BG</p>  <p>BSPP Male 60° x BSPP Male Adj. 90°</p>	<p>ABBG</p>  <p>BSPP Male 60° x BSPP Male Adj. Branch Tee</p>	<p>ABGB</p>  <p>BSPP Male 60° x BSPP Male Adj. Run Tee</p>
<p>20GB</p>  <p>BSPP Male Port x BSPP Female Swivel</p>	<p>24GB</p>  <p>BSPP Male 60° x BSPP Female Swivel</p>	<p>29GB</p>  <p>BSPP Male 60° x BSPP Female Swivel</p>	<p>50GB</p>  <p>BSPP Port Male x Female Rigid</p>	<p>59GB</p>  <p>BSPP Port Adj. Male x Female Rigid 90°</p>	
<p>10BT</p>  <p>BSPP Male x BSPT Male</p>	<p>14BT</p>  <p>BSPP Male x BSPT Male 45°</p>	<p>19BT</p>  <p>BSPP Male x BSPT Male 90°</p>	<p>ABBT</p>  <p>BSPP Male x BSPT Male Branch Tee</p>	<p>ABTB</p>  <p>BSPP Male x BSPT Male Run Tee</p>	<p>20TB</p>  <p>BSPT Male x BSPP Female Swivel</p>
<p>24TB</p>  <p>BSPT Male x BSPP Female Swivel 45°</p>	<p>29TB</p>  <p>BSPT Male x BSPP Female Swivel 45°</p>	<p>50BT</p>  <p>BSPP Male 60° x BSPT Female Rigid</p>	<p>50TB</p>  <p>BSPT Male x BSPP Female Rigid</p>	<p>54TB</p>  <p>BSPT Male x BSPP Female Rigid 45°</p>	<p>59TB</p>  <p>BSPT Male x BSPP Female Rigid 90°</p>
<p>OPT</p>  <p>BSPT Male Plug</p>	<p>OPHT</p>  <p>BSPT Male Plug Allen-type</p>	<p>10TT</p>  <p>BSPT Male Nipple</p>	<p>19TT</p>  <p>BSPT Male Union 90°</p>	<p>ATTT</p>  <p>BSPT Male Tee</p>	<p>50TT</p>  <p>BSPT Male x Female Rigid</p>
<p>59TT</p>  <p>BSPT Male x Female Rigid 90°</p>	<p>70TT</p>  <p>BSPT Female Coupling</p>				


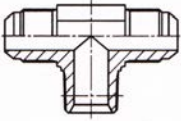
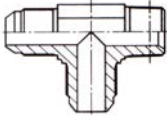
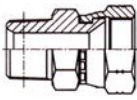
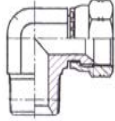
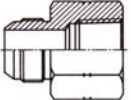
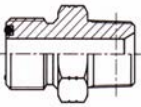
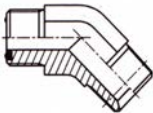
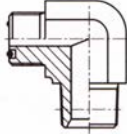
BSPP (60° Seat & Rigid Female) Conversion Adapters

<p>10BN</p>  <p>BSPP Male x NPT Male</p>	<p>14BN</p>  <p>BSPP Male x NPT Male 45°</p>	<p>19BN</p>  <p>BSPP Male x NPT Male 90°</p>	<p>20NB</p>  <p>NPT Male x BSPP Female Swivel</p>	<p>24NB</p>  <p>NPT Male x BSPP Female Swivel 45°</p>	<p>29NB</p>  <p>NPT Male x BSPP Female Swivel 90°</p>
<p>50NB</p>  <p>NPT Male x BSPP Female Rigid</p>	<p>50BN</p>  <p>BSPP Male x NPT Female Rigid</p>	<p>70BN</p>  <p>BSPP Female x NPT Female Rigid</p>	<p>10BO</p>  <p>BSPP Male x SAE O-Ring Male</p>	<p>14BO</p>  <p>BSPP Male x SAE O-Ring Male 45°</p>	<p>19BO</p>  <p>BSPP Male x SAE O-Ring Male 90°</p>
<p>ABBO</p>  <p>BSPP Male x SAE O-Ring Male Br Tee</p>	<p>ABOB</p>  <p>BSPP Male x SAE O-Ring Male Run Tee</p>	<p>20OB</p>  <p>SAE Male O-Ring x BSPP Female Swivel</p>	<p>24OB</p>  <p>SAE Male O-Ring x BSPP Fem Swivel 45°</p>	<p>29OB</p>  <p>SAE Male O-Ring x BSPP Fem Swivel 90°</p>	<p>50OB</p>  <p>SAE Male O-Ring x BSPP Female Rigid</p>
<p>10JB</p>  <p>JIC Male x BSPP Male 60°</p>	<p>10JB-WD</p>  <p>JIC Male x BSPP Male 60° + Captive Seal</p>	<p>19JB</p>  <p>JIC Male x BSPP Male 90°</p>	<p>20JB</p>  <p>JIC Male x BSPP Female Swivel</p>	<p>24JB</p>  <p>JIC Male x BSPP Female Swivel 45°</p>	<p>24JB-T</p>  <p>JIC Male x BSPP Fem Swivel 45° Swept</p>
<p>29JB</p>  <p>JIC Male x BSPP Female Swivel 90°</p>	<p>29JB-T</p>  <p>JIC Male x BSPP Fem Swivel 90° Swept</p>	<p>20BJ</p>  <p>BSPP Male x JIC Fem Swivel</p>	<p>20BJ-WD</p>  <p>BSPP Male (+ Captive Seal) x JIC Fem Swivel</p>	<p>24BJ</p>  <p>BSPP Male x JIC Fem Swivel 45°</p>	<p>29BJ</p>  <p>BSPP Male x JIC Fem Swivel 90°</p>
<p>30JB</p>  <p>JIC Female x BSPP Swivel Union</p>	<p>50JB</p>  <p>JIC Male x BSPP Female Rigid</p>	<p>59JB</p>  <p>JIC Male x BSPP Female Rigid 90°</p>	<p>40BJ</p>  <p>BSPP Female Rigid x JIC Female Swivel</p>	<p>10FB</p>  <p>ORS Male x BSPP Male 60°</p>	<p>20BF</p>  <p>BSPP Male 60° x ORS Female Swivel</p>

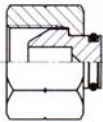
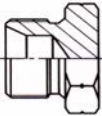
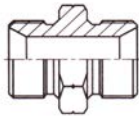
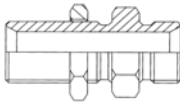
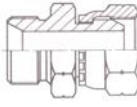
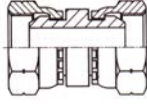
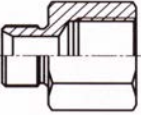
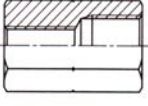
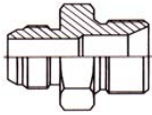
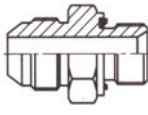
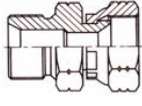
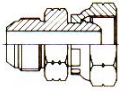
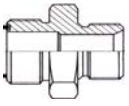
BSPP, BSPP Port & BSPT Conversion Adapters

<p>30FB</p>  <p>ORS x BSPP Female Swivel Union</p>	<p>10BM</p>  <p>BSPP 60° Male x Metric Male</p>	<p>10BM-WD</p>  <p>BSPP 60° Male x Metric (Captive Seal)</p>	<p>20MB</p>  <p>Metric Male x BSPP Female Swivel</p>	<p>10BH</p>  <p>BSPP 60° Male x Metric Port Male</p>	<p>14BH</p>  <p>BSPP 60° Male x Metric Port Adj. M 45°</p>
<p>19BH</p>  <p>BSPP Male x Metric Port Adj. Male 90°</p>	<p>ABBH</p>  <p>BSPP Male x Metric Port Adj. Male Br Tee</p>	<p>ABHB</p>  <p>BSPP Male x Metric Port Adj. M Run Tee</p>	<p><i>* All "B" Male Threads have 60° seat</i></p>		
<p>50GN</p>  <p>BSPP Port Male Port x NPT Female Rigid</p>	<p>10JG</p>  <p>JIC Male x BSPP Port Male</p>	<p>14JG</p>  <p>JIC Male x BSPP Port Adj. Male 45°</p>	<p>19JG</p>  <p>JIC Male x BSPP Port Adj. Male 90°</p>	<p>AJJG</p>  <p>JIC Male x BSPP Port Adj. Male Branch Tee</p>	<p>AJGJ</p>  <p>JIC Male x BSPP Port Adj. Male Run Tee</p>
<p>20GJ</p>  <p>BSPP Male Port x JIC Female Swivel</p>	<p>29GJ</p>  <p>BSPP Male Adj. Port x JIC Female Swivel</p>	<p>10FG</p>  <p>ORS Male x BSPP Port Male</p>	<p>14FG</p>  <p>ORS Male x BSPP Port Adj. Male 45°</p>	<p>19FG</p>  <p>ORS Male x BSPP Port Adj. Male 90°</p>	<p>AFFG</p>  <p>ORS Male x BSPP Port Adj. Male Br. Tee</p>
<p>AFGF</p>  <p>ORS Male x BSPP Port Adj. Male Run Tee</p>	<p><i>* All "G" Threads come with O-Ring / Washer combination for external port sealing</i></p>				
<p>10NT</p>  <p>NPT Male x BSPT Male</p>	<p>50TN</p>  <p>BSPT Male x NPT Female Rigid</p>	<p>50NT</p>  <p>NPT Male x BSPT Female Rigid</p>	<p>50OT</p>  <p>SAE O-Ring Male x BSPT Female Rigid</p>	<p>10JT</p>  <p>JIC Male x BSPT Male</p>	<p>14JT</p>  <p>JIC Male x BSPT Male 45°</p>


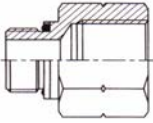
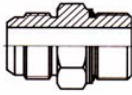
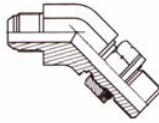
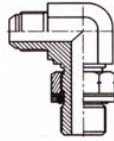
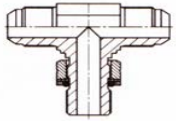
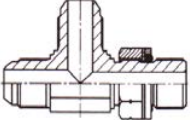
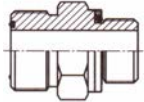
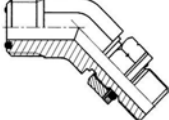
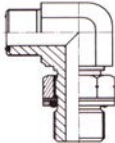
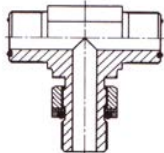
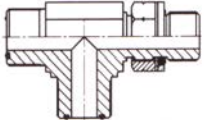
BSPT Conversion ○ Metric (60° Seat)

<p>19JT</p>  <p>JIC Male x BSPT Male 90°</p>	<p>AJJT</p>  <p>JIC Male x BSPT Male Branch Tee</p>	<p>AJTJ</p>  <p>JIC Male x BSPT Male Run Tee</p>	<p>20TJ</p>  <p>BSPT Male x JIC Female Swivel</p>	<p>29TJ</p>  <p>BSPT Male x JIC Female Swivel 90°</p>	<p>50JT</p>  <p>JIC Male x BSPT Female Rigid</p>
<p>10FT</p>  <p>ORS Male x BSPT Male</p>	<p>14FT</p>  <p>ORS Male x BSPT Male 45°</p>	<p>19FT</p>  <p>ORS Male x BSPT Male 90°</p>			




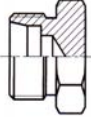
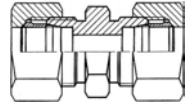
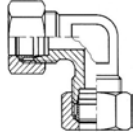
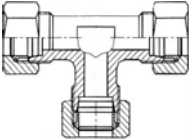
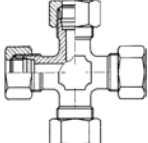
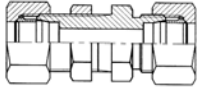
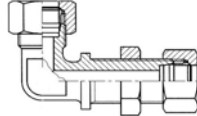
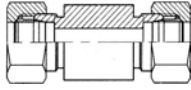
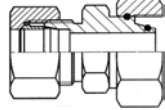
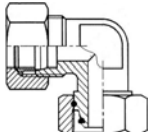
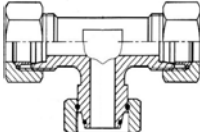
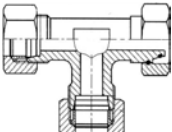
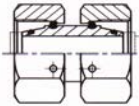
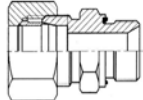
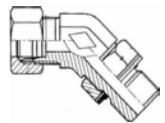
Metric (60° Seat and Rigid Female)

<p>0CM</p>  <p>Metric 60° Cone Seat Female Cap</p>	<p>0PM</p>  <p>Metric 60° Cone Seat Male Plug</p>	<p>10MM</p>  <p>Metric Male Union</p>	<p>60MM</p>  <p>Metric Male Bulkhead Union</p>	<p>20MM</p>  <p>Metric Male x Female Swivel</p>	<p>30MM</p>  <p>Metric Female Swiv- el Union</p>
<p>50MM</p>  <p>Metric Male x Female Rigid</p>	<p>70MM</p>  <p>Metric Female Coupling Rigid</p>	<p>10JM</p>  <p>JIC Male x Metric Male</p>	<p>10JM-WD</p>  <p>JIC Male x Metric Male + Captive Seal</p>	<p>20MJ</p>  <p>Metric Male x Female JIC Swivel</p>	<p>20JM</p>  <p>JIC Male x Metric Female Swivel</p>
<p>10FM</p>  <p>ORS Male x Metric 60° Male</p>					

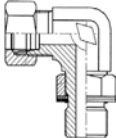
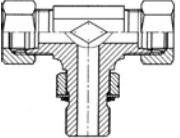
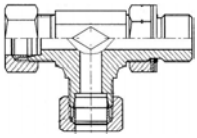
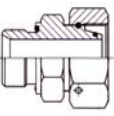
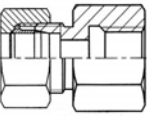
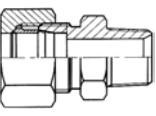
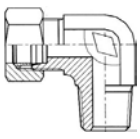
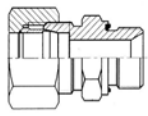
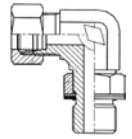
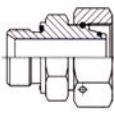
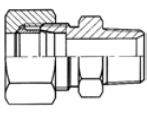
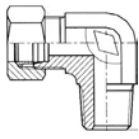
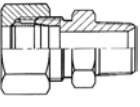
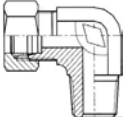
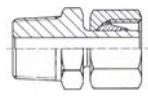
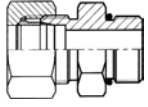
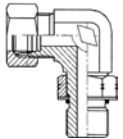
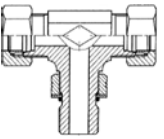
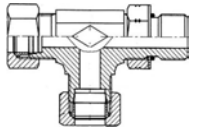

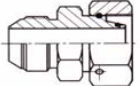
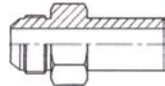
Metric Port ○ DIN 12° Seat

<p>OPHH-WD</p>  <p>Metric Port Plug (Captive Seal)</p>	<p>50HN</p>  <p>Metric Port Male x NPT Female Rigid</p>	<p>10JH</p>  <p>JIC Male x Metric Port Male</p>	<p>14JH</p>  <p>JIC Male x Metric Port Male Adj. 45°</p>	<p>19JH</p>  <p>JIC Male x Metric Port Male Adj. 90°</p>	<p>AJJH</p>  <p>JIC Male x Metric Port Male Adj. Br. Tee</p>
<p>AJHJ</p>  <p>JIC Male x Metric Port Male Adj. Run Tee</p>	<p>10FH</p>  <p>ORS Male x Metric Port Male</p>	<p>14FH</p>  <p>ORS Male x Metric Port Male Adj. 45°</p>	<p>19FH</p>  <p>ORS Male x Metric Port Male Adj. 90°</p>	<p>AFFH</p>  <p>ORS Male x Metric Port Male Adj. BR. Tee</p>	<p>AFHF</p>  <p>ORS Male x Metric Port Male Adj. Run Tee</p>

DIN Bite-Type 12° Seat

<p>OSA, OSC OSD</p>  <p>DIN LL, L & S Metric Bite Sleeve</p>	<p>ONA, ONC OND</p>  <p>DIN LL, L & S Metric Tube Nut</p>	<p>OCA, OCC OCD</p>  <p>DIN LL, L & S Female Cap</p>	<p>OPA, OPC OPD</p>  <p>DIN LL, L & S Male Plug</p>	<p>10AA, 10CC 10DD</p>  <p>DIN LL, L & S Tube Union</p>	<p>19AA, 19CC 19DD</p>  <p>DIN LL, L & S Tube Union 90°</p>
<p>AAAA, ACCC ADDD</p>  <p>DIN LL, L & S Tube Union Tee</p>	<p>XCCCC XDDDD</p>  <p>DIN L & S Tube Union Cross</p>	<p>60CC 60DD</p>  <p>DIN L & S Tube Bulkhead Union</p>	<p>69CC 69DD</p>  <p>DIN L & S Tube Bulkhead Union 90°</p>	<p>60CC-W 60DD-W</p>  <p>DIN L & S Tube Weld Bulkhead Union</p>	<p>20CC 20DD</p>  <p>DIN L & S Tube Reducer / Increaser</p>
<p>29CC 29DD</p>  <p>DIN L & S Female Swivel 90°</p>	<p>BCCC BDDD</p>  <p>DIN L & S Female Swivel Branch Tee</p>	<p>CCCC CDDD</p>  <p>DIN L & S Female Swivel Run Tee</p>	<p>30CC 30DD</p>  <p>DIN L & S Female Swivel Union</p>	<p>10AB, 10CB 10DB-WD</p>  <p>DIN LL, L & S x BSPP Male w/Seal</p>	<p>14CG 14DG</p>  <p>DIN L & S x BSPP Male Adj. 45°</p>



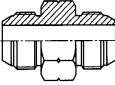
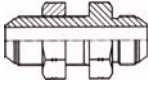
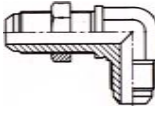
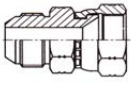
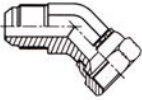
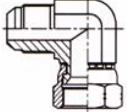
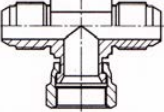
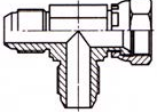
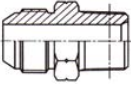

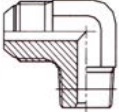
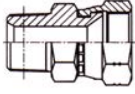
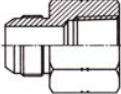
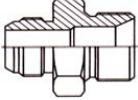
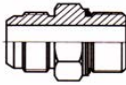
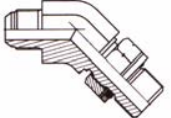
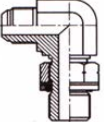
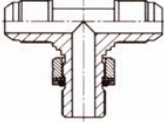
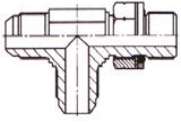
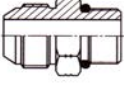

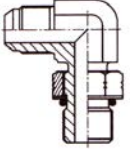
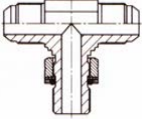
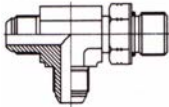
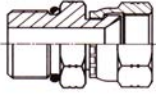
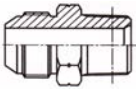
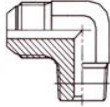
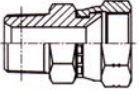
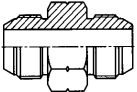
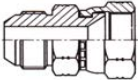
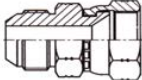
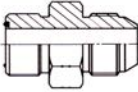
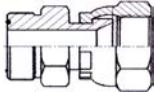
DIN Bite-Type 12° Seat

<p>19CG 19DG</p>  <p>DIN L & S x BSPP Male Adj. 90°</p>	<p>ACCG ADDG</p>  <p>DIN L & S x BSPP Male Adj. Branch Tee</p>	<p>ACGC ADGD</p>  <p>DIN L & S x BSPP Male Adj. Run Tee</p>	<p>20BC-WD 20BD-WD</p>  <p>DIN L & S Fem Swivel x BSPP Male w/ Seal</p>	<p>50CB 50DB</p>  <p>DIN L & S x BSPP Female Rigid</p>	<p>10AT, 10CT 10DT</p>  <p>DIN L & S x BSPT Male</p>
<p>19AT, 19CT 19DT</p>  <p>DIN L & S x BSPT Male 90°</p>	<p>10CM-WD 10DM-WD</p>  <p>DIN L & S x Metric Port Male</p>	<p>19CH 19DH</p>  <p>DIN L & S x Metric Port Adj. Male 90°</p>	<p>20MC-WD 20MD-WD</p>  <p>Metric Port Male x DIN L & S Swivel</p>	<p>10AI 10CI</p>  <p>DIN LL & L x Metric Tapered Male</p>	<p>19AI 19CI</p>  <p>DIN LL & L x Metric Tapered Male 90°</p>
<p>10AN, 10CN 10DN</p>  <p>DIN LL, L & S x NPT Male</p>	<p>19CN 19DN</p>  <p>DIN L & S x NPT Male 90°</p>	<p>20NC 20ND</p>  <p>NPT Male x DIN L & S DIN Female Swivel</p>	<p>10CO 10DO</p>  <p>DIN L & S x SAE Male O-Ring</p>	<p>19CO 19DO</p>  <p>DIN L & S x SAE Male O-Ring Adj. 90°</p>	<p>ACCO ADDO</p>  <p>DIN L & S x SAE Male O-Ring Adj. Br. Tee</p>
<p>ACOC ADOD</p>  <p>DIN L & S x SAE Male O-Ring Adj. Run Tee</p>	<p>10JA, 10JC 10JD</p>  <p>JIC Male x DIN LL, L & S Male</p>	<p>20JA, 20JC 20JD</p>  <p>JIC Male x DIN LL, L & S Female Swivel</p>	<p>20JV-TS 20JV-TS</p>  <p>JIC Male x Metric Tube Stub</p>		

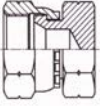

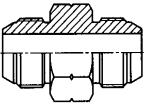
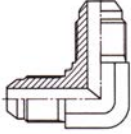
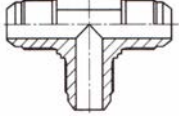
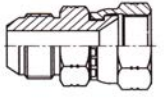
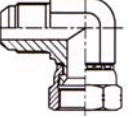
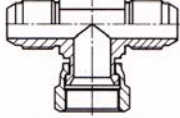
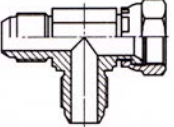
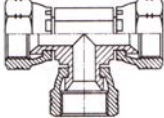


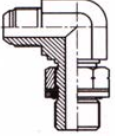
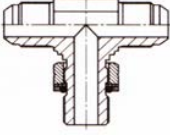
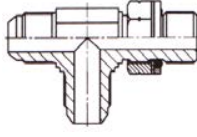
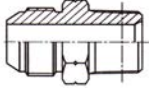


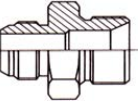
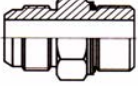

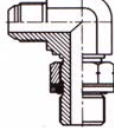
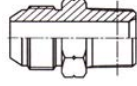

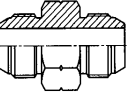
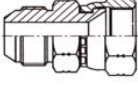
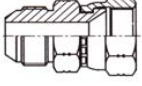
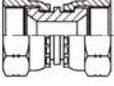
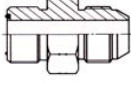

Note: All Female DIN Swivels are DKO type.

JIS Bite-Type Tube Fittings available upon request.


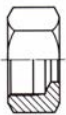

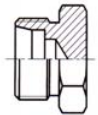
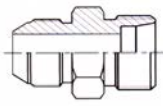
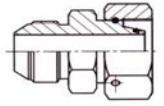
JIS 30° Flare

<p>OCS</p>  <p>JIS Female Cap</p>	<p>OPS</p>  <p>JIS Male Plug</p>	<p>1OSS</p>  <p>JIS Male Union</p>	<p>6OSS</p>  <p>JIS Male Bulkhead Union</p>	<p>69SS</p>  <p>JIS Male Bulkhead Union 90°</p>	<p>2OSS</p>  <p>JIS Male x Female Swivel</p>
<p>24SS</p>  <p>JIS Male x Female Swivel 45°</p>	<p>29SS</p>  <p>JIS Male x Female Swivel 45°</p>	<p>BSSS</p>  <p>JIS Male x Female Swivel Branch Tee</p>	<p>CSSS</p>  <p>JIS Male x Female Swivel Run Tee</p>	<p>10ST</p>  <p>JIS Male x BSPT Male</p>	<p>14ST</p>  <p>JIS Male x BSPT Male 45°</p>
<p>19ST</p>  <p>JIS Male x BSPT Male 90°</p>	<p>20TS</p>  <p>BSPT Male x JIS Female Swivel</p>	<p>50ST</p>  <p>JIS Male x BSPT Female Rigid</p>	<p>10SB</p>  <p>JIS Male x BSPP Male 60° Seat</p>	<p>10SG</p>  <p>JIS Male x BSPP Male Port</p>	<p>14SG</p>  <p>JIS Male x BSPP Male Port 45°</p>
<p>19SG</p>  <p>JIS Male x BSPP Port Male Adj. 90°</p>	<p>ASSG</p>  <p>JIS Male x BSPP Port Male Adj. Branch Tee</p>	<p>ASGS</p>  <p>JIS Male x BSPP Port Male Adj. Run Tee</p>	<p>10SO</p>  <p>JIS Male x SAE O-Ring Male</p>	<p>14SO</p>  <p>JIS Male x SAE O-Ring Male Adj. 45°</p>	<p>19SO</p>  <p>JIS Male x SAE O-Ring Male Adj. 90°</p>
<p>ASSO</p>  <p>JIS Male x SAE O-Ring M. Adj. Br. Tee</p>	<p>ASOS</p>  <p>JIS Male x SAE O-Ring M. Adj. Run Tee</p>	<p>20OS</p>  <p>SAE O-Ring Male x JIS Female Swivel</p>	<p>10SN</p>  <p>JIS Male x NPT Male</p>	<p>19SN</p>  <p>JIS Male x NPT Male 90°</p>	<p>20NS</p>  <p>NPT Male x JIS Female Swivel</p>
<p>10JS</p>  <p>JIC Male x JIS Male</p>	<p>20SJ</p>  <p>JIS Male x JIC Female Swivel</p>	<p>20JS</p>  <p>JIC Male x JIS Female Swivel</p>	<p>10FS</p>  <p>ORS Male x JIS Male</p>	<p>20FS</p>  <p>ORS Male x JIS Female Swivel</p>	





KOMATSU®

<p>OCK</p>  <p>KOMATSU® Female Cap</p>	<p>OPK</p>  <p>KOMATSU® Male Plug</p>	<p>10KK</p>  <p>KOMATSU® Male Union</p>	<p>19KK</p>  <p>KOMATSU® Male Union 90°</p>	<p>AKKK</p>  <p>KOMATSU® Male Union Tee</p>	<p>20KK</p>  <p>KOMATSU® Male x Female Swivel</p>
<p>29KK</p>  <p>KOMATSU® Male x Female Swivel 90°</p>	<p>BKKK</p>  <p>KOMATSU® Male x Fem Swivel Br. Tee</p>	<p>CKKK</p>  <p>KOMATSU® Male x Fem Swivel Run Tee</p>	<p>DKKK</p>  <p>KOMATSU® Female Swivel Tee</p>	<p>10KH</p>  <p>KOMATSU® Male x Metric Port Male</p>	<p>14KH</p>  <p>KOMATSU® Male x Metric Port M Adj. 45°</p>
<p>19KH</p>  <p>KOMATSU® Male x Metric Port M Adj. 90°</p>	<p>AKKH</p>  <p>KOMATSU® Male x Metric Port M Br. Tee</p>	<p>AKHK</p>  <p>KOMATSU® Male x Metric Port M Run Tee</p>	<p>10KT</p>  <p>KOMATSU® Male x BSPT Male</p>	<p>14KT</p>  <p>KOMATSU® Male x BSPT Male 45°</p>	<p>19KT</p>  <p>KOMATSU® Male x BSPT Male 90°</p>
<p>10KB</p>  <p>KOMATSU® Male x BSPP Male</p>	<p>10KG</p>  <p>KOMATSU® Male x BSPP Male Port</p>	<p>14KG</p>  <p>KOMATSU® Male x BSPP M Port Adj. 45°</p>	<p>19KG</p>  <p>KOMATSU® Male x BSPP M Port Adj. 90°</p>	<p>10KN</p>  <p>KOMATSU® Male x NPT Male</p>	<p>19KN</p>  <p>KOMATSU® Male x NPT Male 90°</p>
<p>10JK</p>  <p>JIC Male x KOMATSU® Male</p>	<p>20KJ</p>  <p>KOMATSU® Male x JIC Female Swivel</p>	<p>20JK</p>  <p>JIC Male x KOMATSU® Fem Svl</p>	<p>30JK</p>  <p>JIC x KOMATSU® Female Swivel</p>	<p>10FK</p>  <p>ORS Male x KOMATSU® Male</p>	<p>20FK</p>  <p>ORS Male x KOMATSU® Fem Svl</p>

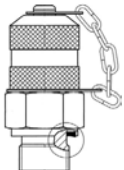
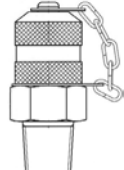
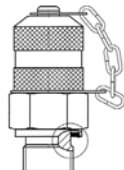
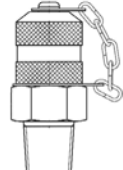
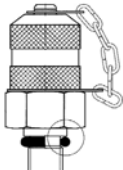
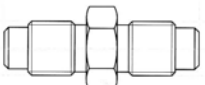
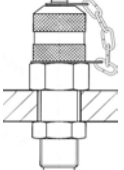
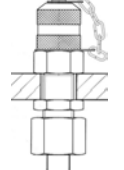
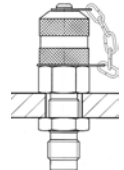
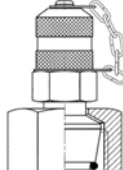
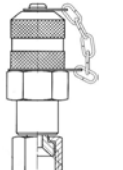
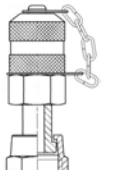
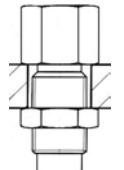
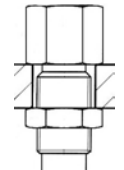
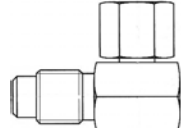
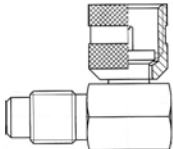
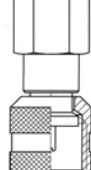
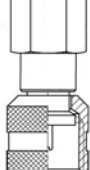
KOBELCO® (French Millimetrique)

OSX  KOBELCO® Metric Tube Bite Sleeve	ONX  KOBELCO® Metric Tube Nut	OCX  KOBELCO® Female Cap	OPX  KOBELCO® Male Plug	10JX  JIC Male x KOBELCO® Male	20JX  JIC Male x KOBELCO® Female
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O-Rings and Seals

OOR  SAE O-Ring	FOR  ORS O-Ring	UOR  SAE Flange O-Ring	SOR  JIS Port O-Ring	DOR  DIN Cone O-Ring (DKO)	BBS  BSP Bonded Seal
MBS  Metric Bonded Seal					

Micro Test (M16x2.0) ○ Pressure Diagnostic

<p>MTP-4MBSPPCS</p>  <p>Micro Test Male x BSPP Male (Captive Seal)</p>	<p>MTP-MBSPT</p>  <p>Micro Test Male x BSPT Male</p>	<p>MTP-MM</p>  <p>Micro Test Male x Metric Male (Captive Seal)</p>	<p>MTP-MP</p>  <p>Micro Test Male x NPT Male</p>	<p>MT-101O</p>  <p>Micro Test Male x SAE O-Ring Male</p>	<p>MTP-MTP</p>  <p>Micro Test Male Union</p>
<p>MTPBKHD-MTP</p>  <p>Micro Test Bulkhead Male Union</p>	<p>MTPBKHD-MD*</p>  <p>Micro Test Bulkhead x Male DIN</p>	<p>MTPBKHD-MJ</p>  <p>Micro Test Bulkhead Male x JIC Male</p>	<p>MTP-FD*X</p>  <p>Micro Test Male x DIN Fem Swivel</p>	<p>MTP-FJX</p>  <p>Micro Test Male x JIC Female Swivel</p>	<p>MTP-FFORX</p>  <p>Micro Test Male x ORS Female Swivel</p>
<p>MTPBKHD-MP</p>  <p>Micro Test Bulkhead x NPT Female</p>	<p>MTPBKHD-BSPPG</p>  <p>Micro Test Bulkhead x BSPP Gauge Female</p>	<p>MTP-FP90</p>  <p>Micro Test Male x NPT Female 90°</p>	<p>MTP-FTP90</p>  <p>Micro Test Male x Micro Test Fem SW 90°</p>	<p>FP-FTP</p>  <p>NPT Female x Micro Test Female Swivel</p>	<p>FBSPP-FTP</p>  <p>BSPP Fem x Micro Test Fem Swivel</p>

Gauges ○ Pressure Diagnostic Kit

<p>G*-25-D</p>  <p>Dry 2.5" Face 1/4" NPT</p>	<p>G*-25-L</p>  <p>Liquid Filled 2.5" Face 1/4" NPT Up to 15,000psi</p>	<p>G*-25-RC-L</p>  <p>Liquid Filled 2.5" Face 1/4 " NPT Up to 15,000psi</p>
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Pressure Diagnostic Hose Assemblies

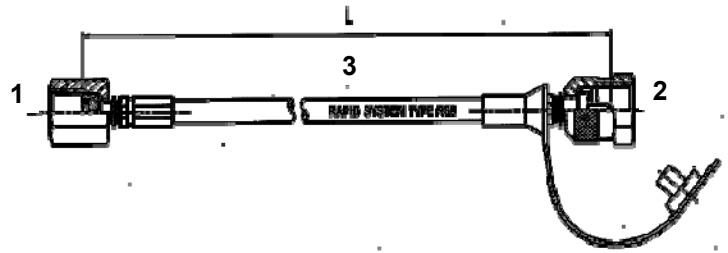
To order Micro-Test Hose Assemblies

1. End #1
2. End #2
3. Length in inches

Example: MTH-4FJX16FMTX-72.00

Available Hose Ends (others upon request):

- 7/16-20 Female JIC Swivel = 4FJX
- 1/4-19 Female BSPP Swivel = 4FBX
- M16x2.0 Female Micro-Test Swivel = 16FMTX
- 1/8-18 Male NPT = 4MP
- 1/4-18 Male NPT = 2MP



Pressure Diagnostic Kits



PDK

Our original Pressure Diagnostic Kit includes an assortment of micro-test fittings, two micro-test hose assemblies and three liquid filled pressure gauges of your choice. Micro-test fittings include NPT, BSPP, BSPT and Parallel Metric Port Threads. Micro-test fittings can be connected under system pressure. Please call (866) 333-5565 for a complete list of parts included.



PDK2

The Pressure Diagnostic Kit 2 includes an assortment of Pressure Diagnostic Quick Disconnect fittings, two micro-test hose assemblies and three liquid filled pressure gauges of your choice. Pressure Diagnostic Quick Disconnects include NPT and SAE O-Ring Threads. Please call (866) 333-5565 for a complete list of parts included.



PDK3

For an assortment of both types of Pressure Diagnostic Fittings, we offer the PDK3. It includes both types fittings in various threads, two hose assemblies and three liquid filled pressure gauges of your choice. Please call (866) 333-5565 for a complete list of parts included.

Standard Plug / Cap Assortments

Our Portable Plug / Cap, Seal and Conversion Adapter Assortments are offered in plastic or metal bin boxes with a laminated legend / thread chart for quick identification.

A-JIC-PC1

BSPP* Plug & Cap Assortment



0PJ Series

0CJ Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PJ-04	2	0CJ-04
4	0PJ-06	4	0CJ-06
4	0PJ-08	4	0CJ-08
4	0PJ-10	4	0CJ-10
2	0PJ-12	2	0CJ-12
2	0PJ-16	2	0CJ-16

A-SAEOR-P1

SAE O-Ring Plug Assortment



0PO Series

Qty	Plug Numbers
2	0PO-04
4	0PO-06
4	0PO-08
4	0PO-10
2	0PO-12
2	0PO-16

A-ORS-PC1

ORS Plug & Cap



0PF Series

0CF Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PF-04	2	0CF-04
4	0PF-06	4	0CF-06
4	0PF-08	4	0CF-08
4	0PF-10	4	0CF-10
4	0PF-12	4	0CF-12
2	0PF-16	2	0CF-16

A-NPT-P1

NPT Plug Assortment



0PN Series

Qty	Plug Numbers
2	0PN-02
4	0PN-04
4	0PN-06
4	0PN-08
2	0PN-12
2	0PN-16

A-N/S-P1

NPT and SAE Plug Assortment



0PN Series

0PO Series

Qty	Plug Numbers	Qty	Plug Numbers
2	0PN-02	2	0PO-04
4	0PN-04	4	0PO-06
4	0PN-06	4	0PO-08
4	0PN-08	4	0PO-10
2	0PN-12	2	0PO-12
2	0PN-16	2	0PO-16

A-FL/FLH-PC1

Code 61 & Code 62 Plug



0PU Series

0PW Series

Qty	Code 61	Qty	Code 62
2	0PU-08	2	0PW-08
4	0PU-12	4	0PW-12
4	0PU-16	4	0PW-16
4	0PU-20	4	0PW-20
2	0PU-24	2	0PW-24
2	0PU-32	2	0PW-32

Foreign Plug / Cap Assortments

Our Portable Plug / Cap, Seal and Conversion Adapter Assortments are offered in plastic or metal bin boxes with a laminated legend / thread chart for quick identification.

A-BSPP-PC1


BSPP* Plug & Cap Assortment



OPB Series

OCB Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PB-02	2	0CB-02
4	0PB-04	4	0CB-04
4	0PB-06	4	0CB-06
4	0PB-08	4	0CB-08
2	0PB-10	2	0CB-10
2	0PB-12	2	0CB-12
2	0PB-16	2	0CB-16

 *BBS series bonded seals included for use with Male BSPP port application

A-BSPPWD-P1

BSPP Allen-type Port Plug Assortment



OPHG Series

Qty	Plug Numbers
2	0PHG-02-WD
4	0PHG-04-WD
4	0PHG-06-WD
4	0PHG-08-WD
2	0PHG-12-WD
2	0PHG-16-WD

A-MMWD-P1

Metric Allen-type Port Plug Assortment



OPHH Series

Qty	Plug Numbers
2	0PHH-10-WD
4	0PHH-12-WD
4	0PHH-14-WD
4	0PHH-16-WD
4	0PHH-18-WD
2	0PHH-22-WD
2	0PHH-26-WD
2	0PHH-27-WD
2	0PHH-33-WD

A-DINC-PC1

DIN 12° Light Series Plug & Cap



OPC Series

OCC Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PC-06	2	0CC-06
4	0PC-08	4	0CC-08
4	0PC-10	4	0CC-10
4	0PC-12	4	0CC-12
4	0PC-15	4	0CC-15
2	0PC-18	2	0CC-18
2	0PC-22	2	0CC-22
2	0PC-28	2	0CC-28

A-DIND-PC1

DIN 12° Heavy Series Plug & Cap



OPD Series

OCD Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PD-06	2	0CD-06
4	0PD-08	4	0CD-08
4	0PD-10	4	0CD-10
4	0PD-12	4	0CD-12
2	0PD-14	2	0CD-14
4	0PD-16	4	0CD-16
2	0PD-20	2	0CD-20
2	0PD-25	2	0CD-25

A-BSPT-P1

BSPT Plug Assortment



OPT Series

Qty	Plug Numbers
2	0PT-02
4	0PT-04
4	0PT-06
4	0PT-08
2	0PT-12
2	0PT-16

Foreign Plug / Cap and Seal Assortments

A-DINCD-PC1

DIN 12° *Light & Heavy Series Plug & Cap Assortment*



OPC / OPD Series OCC / OCD Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PC-06	2	0CC-06
4	0PC-08	4	0CC-08
4	0PC-10	4	0CC-10
4	0PC-12	4	0CC-12
4	0PC-15	4	0CC-15
2	0PC-18	2	0CC-18
2	0PC-22	2	0CC-22
2	0PC-28	2	0CC-28
2	0PD-06	2	0CD-06
4	0PD-08	4	0CD-08
4	0PD-10	4	0CD-10
4	0PD-12	4	0CD-12
2	0PD-14	2	0CD-14
4	0PD-16	4	0CD-16
2	0PD-20	2	0CD-20
2	0PD-25	2	0CD-25

A-KOM-PC1

KOMATSU® Plug Assortment



OPK Series OCK Series

Qty	Plug Numbers	Qty	Cap Numbers
4	0PK-14	4	0CK-14
4	0PK-18	4	0CK-18
4	0PK-22	4	0CK-22
2	0PK-24	2	0CK-24
2	0PK-30	2	0CK-30
2	0PK-33	2	0CK-33

A-KOB-PC1

KOBELCO® Plug & Cap Assortment



OPX Series OCX Series

Qty	Plug Numbers	Qty	Cap Numbers
2	0PX-22	2	0CX-22
4	0PX-28	4	0CX-28
4	0PX-35	4	0CX-35

A-JIS-PC1

JIS* Plug & Cap Assortment



OPS Series OCS Series

Qty	Plug Numbers	Qty	Cap Numbers
4	0PS-04	4	0PS-04
4	0PS-06	4	0PS-06
4	0PS-08	4	0PS-08
2	0PS-12	2	0PS-12
2	0PS-16	2	0PS-16

A-BBS-1

BSP Bonded Seal Assortment



BBS Series

Qty	BSP
10	BBS-02
10	BBS-04
10	BBS-06
10	BBS-08
10	BBS-10
8	BBS-12
6	BBS-16

A-MBS-1

Metric Bonded Seal Assortment



MBS Series

Qty	Metric
10	MBS-10
10	MBS-12
10	MBS-14
10	MBS-16
10	MBS-18
10	MBS-20
10	MBS-22
6	MBS-24
6	MBS-26
6	MBS-27
6	MBS-33

Portable Conversion Adapter Assortments

A-BSPP-CV1

BSPP to JIC Conversion Adapter Assortment



10JB Series

20JB Series

Qty	Male BSPP	Qty	Female BSPP
2	10JB-04-02	2	20JB-04-02
4	10JB-04-04	4	20JB-04-04
4	10JB-06-06	4	20JB-06-06
4	10JB-10-10	4	20JB-10-10
2	10JB-12-12	2	20JB-12-12
2	10JB-16-16	2	20JB-16-16



BBS Bonded Seals included for port application

A-DINC-CV1

DIN 12° Light Series to JIC Conversion Adapter Assortment



10JC Series

20JC Series

Qty	Male DIN	Qty	Female DIN
2	10JC-04-06	2	20JC-04-06
4	10JC-04-08	4	20JC-04-08
4	10JC-06-10	4	20JC-06-10
4	10JC-08-12	4	20JC-08-12
4	10JC-08-15	4	20JC-08-15
2	10JC-10-18	2	20JC-10-18
2	10JC-12-22	2	20JC-12-22
2	10JC-16-28	2	20JC-16-28

A-MP-CV1

Metric Port Connection* to JIC Conversion Adapter Assortment



10JH Series

Qty	Male Metric
2	10JH-04-10
4	10JH-04-12
4	10JH-06-14
4	10JH-06-16
4	10JH-08-18
2	10JH-08-20
2	10JH-10-22
2	10JH-12-26
2	10JH-12-27
2	10JH-16-33

A-BSPT-CV1

BSPT to JIC Conversion Adapter Assortment



10JT Series

Qty	Plug Numbers
2	10JT-04-02
4	10JT-04-04
4	10JT-06-06
4	10JT-08-08
2	10JT-12-12
2	10JT-16-16

A-DIND-CV1

DIN 12° Heavy Series to JIC Conversion Adapter Assortment



10JD Series

20JD Series

Qty	Male DIN	Qty	Female DIN
2	10JD-04-06	2	20JD-04-06
4	10JD-04-08	4	20JD-04-08
4	10JD-06-10	4	20JD-06-10
4	10JD-08-12	4	20JD-08-12
4	10JD-08-14	4	20JD-08-14
2	10JD-10-16	2	20JD-10-16
2	10JD-12-20	2	20JD-12-20
2	10JD-16-25	2	20JD-16-25

A-JIS-CV1

Metric Port Connection* to JIC Conversion Adapter Assortment



10JS Series

20JS Series

Qty	Male JIS	Qty	Female JIS
2	10JS-04-04	2	20JS-04-04
4	10JS-06-06	4	20JS-06-06
4	10JS-08-08	4	20JS-08-08
4	10JS-12-12	4	20JS-12-12
2	10JS-16-16	2	20JS-16-16

Portable Conversion Adapter Assortments

A-KOM-CV1

KOMATSU® to JIC Conversion Adapter Assortment



10JK Series

20JK Series

Qty	Male KOM	Qty	Female KOM
2	10JK-04-14	2	20JK-04-14
4	10JK-06-18	4	20JK-06-18
4	10JK-08-22	4	20JK-08-22
4	10JK-10-24	4	20JK-10-24
2	10JK-12-30	2	20JK-12-30
2	10JK-16-33	2	20JK-16-33

A-KOB-CV1

KOBELCO® to JIC Conversion Adapter Assortment



10JX Series

20JX Series



OSX / ONX Series

Qty	Male KOB	Qty	Fem / S & N
4	10JX-12-22	2	20JX-12-22
2	10JX-12-28	2	20JX-16-28
2	10JX-16-22	2	20JX-20-35
4	10JX-16-28	2/2	0SX-22 0NX-22
2	10JX-16-35	2/2	0SX-28 0NX-28
2	10JX-20-35	2/2	0SX-35 0NX-35

A-BJR-CV1

“Banjo Replacement Assortment”

BSPP & Metric Port 90° to JIC Conversion Adapter Assortment

Replace OEM banjo connections with the use of a 90° adapter (included) and a straight Female JIC hose end (not included).

The kit includes all of the popular banjo threads in *BSP and Metric*.



19JG Series

19JH Series

Qty	Male BSPP	Qty	Male Metric
2	19JG-04-02	2	19JH-04-10
2	19JG-04-04	2	19JH-04-12
2	19JG-06-06	2	19JH-06-14
2	19JG-08-08	2	19JH-06-16
		2	19JH-08-18
		2	19JH-10-20
		2	19JH-10-22

Complete International Adapter Assortments

For a more complete assortment of each series, we offer labeled bin cabinet assortments. Each assortment comes in a steel cabinet, pre-labeled with laminated magnetic labels for durability and flexibility.

A-BSPP-2

BSPP Plug & Cap / BSPP to JIC
Conversion Adapter Assortment



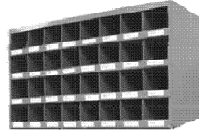
0PB Series

0CB Series

Qty	BSPP Plug	Qty	BSPP Cap
2	0PB-02	2	0CB-02
4	0PB-04	4	0CB-04
4	0PB-06	4	0CB-06
4	0PB-08	4	0CB-08
2	0PB-12	2	0CB-12
2	0PB-16	2	0CB-16

A-BSPT-2

BSPT Plug / BSPT to JIC
Conversion Adapter Assortment

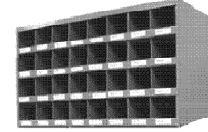


OPT Series

Qty	Plug Numbers
2	OPT-02
4	OPT-04
4	OPT-06
4	OPT-08
2	OPT-12
2	OPT-16

A-JIS-2

JIS 30° Plug & Cap / JIC
Conversion Adapter Assortment



0PS Series

0CS Series

Qty	Plug Numbers	Qty	Cap Numbers
4	0PS-04	4	0PS-04
4	0PS-06	4	0PS-06
4	0PS-08	4	0PS-08
2	0PS-12	2	0PS-12
2	0PS-16	2	0PS-16



10JB Series



20JB Series

Qty	Male BSPP	Qty	Female BSPP
2	10JB-04-02	2	20JB-04-02
4	10JB-04-04	4	20JB-04-04
4	10JB-06-06	4	20JB-06-06
4	10JB-08-08	4	20JB-08-08
2	10JB-10-10	2	20JB-10-10
2	10JB-12-12	2	20JB-12-12
2	10JB-16-16	2	20JB-16-16



10JT Series



19JT Series

Qty	Male BSPT	Qty	Male BSPT 90°
2	10JT-04-02	2	19JT-04-02
4	10JT-04-04	4	19JT-04-04
4	10JT-06-06	4	19JT-06-06
4	10JT-08-08	2	19JT-08-08
2	10JT-12-12	2	19JT-12-12
2	10JT-16-16	1	19JT-16-16



10JS Series



20JS Series

Qty	Male JIS	Qty	Female JIS
2	10JS-04-04	2	20JS-04-04
4	10JS-06-06	4	20JS-06-06
4	10JS-08-08	4	20JS-08-08
4	10JS-12-12	4	20JS-12-12
2	10JS-16-16	2	20JS-16-16



19JG Series



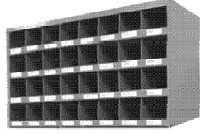
BBS Series

Qty	Male BSPP 90°	Qty	Bonded Seals
2	19JG-04-02	10	BBS-02
4	19JG-04-04	10	BBS-04
4	19JG-06-06	10	BBS-06
4	19JG-08-08	10	BBS-08
2	19JG-12-12	10	BBS-10
1	19JG-16-16	10	BBS-12
		10	BBS-16

Complete International Adapter Assortments

A-KOM-2

KOMATSU® 30° Plug & Cap / JIC Conversion Adapter Assortment



OPK Series

OCK Series

Qty	Plug Numbers	Qty	Cap Numbers
4	OPK-14	4	OCK-14
4	OPK-18	4	OCK-18
4	OPK-22	4	OCK-22
2	OPK-24	2	OCK-24
2	OPK-30	2	OCK-30
2	OPK-33	2	OCK-33



10JK Series

20JK Series

Qty	Male KOM	Qty	Female KOM
2	10JK-04-14	2	20JK-04-14
4	10JK-06-18	4	20JK-06-18
4	10JK-08-22	4	20JK-08-22
4	10JK-10-24	4	20JK-10-24
2	10JK-12-30	2	20JK-12-30
2	10JK-16-33	2	20JK-16-33

A-DIN-2

DIN 12° Plug & Cap / DIN 12° to JIC Conversion Adapter Assortment



OPC Series

OCC Series

Qty	Plug Numbers	Qty	Cap Numbers
2	OPC-06	2	OCC-06
4	OPC-08	4	OCC-08
4	OPC-10	4	OCC-10
4	OPC-12	4	OCC-12
4	OPC-15	4	OCC-15
2	OPC-18	2	OCC-18
2	OPC-22	2	OCC-22
2	OPC-28	2	OCC-28



OPD Series

OCD Series

Qty	Plug Numbers	Qty	Cap Numbers
2	OPD-06	2	OCD-06
4	OPD-08	4	OCD-08
4	OPD-10	4	OCD-10
4	OPD-12	4	OCD-12
2	OPD-14	2	OCD-14
4	OPD-16	4	OCD-16
2	OPD-20	2	OCD-20
2	OPD-25	2	OCD-25



10JC Series

20JC Series

Qty	Male DIN	Qty	Female DIN
2	10JC-04-06	2	20JC-04-06
4	10JC-04-08	4	20JC-04-08
4	10JC-06-10	4	20JC-06-10
4	10JC-08-12	4	20JC-08-12
4	10JC-08-15	4	20JC-08-15
2	10JC-10-18	2	20JC-10-18
2	10JC-12-22	2	20JC-12-22
2	10JC-16-28	2	20JC-16-28



A-DIN-2
Continued



10JD Series

20JD Series

Qty	Male DIN	Qty	Female DIN
2	10JD-04-06	2	20JD-04-06
4	10JD-04-08	4	20JD-04-08
4	10JD-06-10	4	20JD-06-10
4	10JD-08-12	4	20JD-08-12
4	10JD-08-14	4	20JD-08-14
2	10JD-10-16	2	20JD-10-16
2	10JD-12-20	2	20JD-12-20
2	10JD-16-25	2	20JD-16-25



OSC/D Series

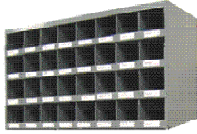
ONC/D Series

Qty	Sleeve Numbers	Qty	Nut Numbers
8	0SCD-06	4	0NC-06
8	0SCD-08	4	0NC-08
8	0SCD-10	4	0NC-10
8	0SCD-12	4	0NC-12
2	0SD-14	4	0NC-15
4	0SC-15	2	0NC-18
4	0SD-16	2	0NC-22
2	0SC-18	2	0NC-28
2	0SD-20	4	0ND-06
2	0SC-22	4	0ND-08
2	0SD-25	4	0ND-10
2	0SC-28	4	0ND-12
		2	0ND-14
		4	0ND-16
		2	0ND-20
		2	0ND-25
		2	0ND-30
		2	0ND-38

Complete International Adapter Assortments

A-MP-CV2

Metric Parallel Port Male (Washer/O-Ring)
to JIC Male Straight & Adjustable 90°
Conversion Adapter Assortment



10JH Series



19JH Series

Qty	Metric Port	Qty	Metric Port 90°
2	10JH-04-10	2	19JH-04-10
4	10JH-04-12	4	19JH-04-12
4	10JH-06-14	4	19JH-06-14
4	10JH-06-16	4	19JH-06-16
4	10JH-08-18	4	19JH-08-18
2	10JH-08-20	2	19JH-08-20
4	10JH-10-22	4	19JH-10-22
2	10JH-12-26	2	19JH-12-26
2	10JH-12-27	2	19JH-12-27
2	10JH-16-33	2	19JH-16-33

A-TM-1

Total International Assortment



Our complete International Adapter Assortment includes the following in four pre-labeled bin cabinets:

BSPP (1/8" - 1")

- 0PB** Plugs
- 0CB** Caps
- 10JB** To JIC Conversion Males
- 20JB** To JIC Conversion Females
- 19JG** To JIC Adjustable 90° Males
- BBS** Bonded Seals
- 0PT** Plugs
- 10JT** To JIC Conversion Males
- 19JT** To JIC 90° Males

BSPT (1/8" - 1")

- 0SC** Sleeves
- 0NC** Nuts
- 0PC** Plugs
- 0CC** Caps
- 10JC** To JIC Conversion Males
- 20JC** To JIC Conversion Females

DIN Heavy (6mm - 25mm)

- 0SD** Sleeves
- 0ND** Nuts
- 0PD** Plugs
- 0CD** Caps
- 10JD** To JIC Conversion Males
- 20JD** To JIC Conversion Females

Metric Port (10mm-33mm)

- 0PHH** Plugs
- 10JH** To JIC Conversion Males
- 19JH** To JIC Adjustable 90° Males
- MBS** Bonded Seals
- JIS (1/4" - 1")**
- 0PS** Plugs
- 0CS** Caps
- 10JS** To JIC Conversion Males
- 20JS** To JIC Conversion Females
- SOR** JIS Port O-Rings

KOMATSU® (14mm - 33mm)

- 0PK** Plugs
- 0CK** Caps
- 10JK** To JIC Conversion Males
- 20JK** To JIC 90° Males

KOBELCO® (22mm—35mm)

- 0SX** Sleeves
- 0NX** Nuts
- 0PX** Plugs
- 0CX** Caps
- 10JX** To JIC Conversion Males
- 20JX** To JIC Conversion Females

Hydraulic Hose - Braided

HYDRA-MAX One-Wire Braid - Exceeds SAE 100R1AT ◦ DIN 20022 1SN ◦ EN 853 1SN



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : One Steel Wire Braid
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
4-1SN	1/4"	.528"	3265	225	14,500	900	2.0"	.15	B, K
6-1SN	3/8"	.685"	2610	180	10,440	720	2.5"	.22	B, K, J
8-1SN	1/2"	.815"	2320	160	9280	640	3.5"	.27	B, K, J
10-1SN	5/8"	.941"	1890	130	7560	520	4.0"	.33	B, K, J
12-1SN	3/4"	1.094"	1525	105	6100	420	4.75"	.42	B, K, J
16-1SN	1"	1.449"	1275	88	5100	352	6.0"	.61	B, K, J
20-1SN	1 1/4"	1.764"	915	63	3660	252	16.5"	.91	B, K, J
24-1SN	1 1/2"	2.008"	725	50	2900	200	20.0"	1.00	B, K, J
32-1SN	2"	2.539"	580	40	2320	160	25.0"	1.50	B, K, J

HYDRA-MAX Two-Wire Braid - Exceeds SAE 100R2AT ◦ DIN 20022 2SN ◦ EN 853 2SN



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Two Steel Wire Braids
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
4-2SN	1/4"	.591"	5800	400	23,200	1600	2.0"	.25	B, K
6-2SN	3/8"	.748"	4800	330	19,200	1320	2.5"	.35	B, K, J
8-2SN	1/2"	.878"	4000	280	16,000	1120	3.5"	.41	B, K, J
10-2SN	5/8"	1.004"	3600	250	14,400	1000	4.0"	.50	B, K, J
12-2SN	3/4"	1.157"	3100	215	12,400	860	4.75"	.62	B, K, J
16-2SN	1"	1.500"	2400	165	9600	660	6.0"	.91	B, K, J
20-2SN	1 1/4"	1.854"	1800	125	7200	500	16.5"	1.37	B, K, J
24-2SN	1 1/2"	2.146"	1300	90	5200	360	20.0"	1.50	B, K, J
32-2SN	2"	2.646"	1150	80	4640	320	25.0"	1.92	B, K, J

* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.

Hydraulic Hose - Braided

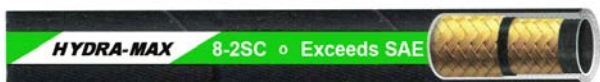
HYDRA-MAX Wire Braid - Exceeds SAE 100R17



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : One or Two Steel Wire Braids, depending on size
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
4-R17	1/4"	.480"	3000	210	12,000	840	2.0"	.16	B, K
6-R17	3/8"	.622"	3000	210	12,000	840	2.5"	.23	B, K, J
8-R17	1/2"	.791"	3000	210	12,000	840	3.5"	.35	B, K, J
10-R17	5/8"	.941"	3000	210	12,000	840	4.1"	.44	B, K, J
12-R17	3/4"	1.091"	3000	210	12,000	840	4.9"	.58	B, K, J
16-R17	1"	1.480"	3000	210	12,000	840	5.9"	.79	B, K, J

HYDRA-MAX Two-Wire Braid - Exceeds SAE 100R16 ◦ DIN 20022 2SC ◦ EN 853 2SC



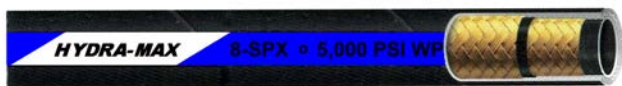
Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Two Steel Wire Braids
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
4-2SC	1/4"	.535"	5800	400	23200	1600	2.95"	.19	B, K
6-2SC	3/8"	.685"	4785	330	19140	1320	3.54"	.26	B, K, J
8-2SC	1/2"	.823"	3990	275	15960	1100	5.11"	.39	B, K, J
10-2SC	5/8"	.945"	3625	250	14500	1000	6.69"	.44	B, K, J
12-2SC	3/4"	1.091"	3120	215	12480	860	7.36"	.52	B, K, J
16-2SC	1"	1.402"	2395	165	9580	660	9.83"	.77	B, K, J

* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.

Hydraulic Hose - Braided

HYDRA-MAX Two-Wire Braid SUPER PRESSURE - Exceeds DIN 20022 2SN



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : One or Two Steel Wire Braids, depending on size
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
8-SPX	1/2"	.791"	5000	345	20,000	1380	5.9"	.41	B, K, J

HYDRA-MAX Static Pressure "Super Jack" Hose



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Two Steel Wire Braids
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
4-J10M	1/4"	.535"	10,000	1450	20,000	2900	4.0"	.25	B, K
6-J10M	3/8"	.685"	10,000	1450	20,000	2900	5.0"	.33	B, K, J

* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.

Hydraulic Hose - Spiral

HYDRA-MAX Four Spiral - Exceeds SAE 100R12



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Four Steel Wire Spiral
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
6-R12	3/8"	.787"	4000	276	16,000	1103	2.5"	.40	J
8-R12	1/2"	.945"	4000	276	16,000	1103	3.5"	.62	J
12-R12	3/4"	1.220"	4000	276	16,000	1103	4.7"	.94	J
16-R12	1"	1.496"	4000	276	16,000	1103	6.0"	1.34	J
20-R12	1 1/4"	1.811"	3000	207	12,000	828	8.2"	1.74	J
24-R12	1 1/2"	2.087"	2500	172	10,000	690	10.0"	2.01	J
32-R12	2"	2.598"	2500	172	10,000	690	12.5"	2.75	J

HYDRA-MAX Multi-Spiral - Exceeds SAE100R13



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Four Steel Wire Spiral through 1" / Six Spiral through 1"
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
12-R13	3/4"	1.256"	5000	345	20,000	1380	9.5"	.99	J
16-R13	1"	1.516"	5000	345	20,000	1380	12.0"	1.33	J
20-R13	1 1/4"	1.953"	5000	345	20,000	1380	16.5"	2.51	H
24-R13	1 1/2"	2.248"	5000	345	20,000	1380	20.0"	3.16	H
32-R13	2"	2.791"	5000	345	20,000	1380	25.0"	4.51	H

* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.

Hydraulic Hose - Spiral

HYDRA-MAX Multi-Spiral - Exceeds SAE 100R15



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Four Steel Wire Spiral Through 1" / Six Spiral Above 1"
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
8-R15	1/2"	.984"	6000	415	24,000	1656	9.0"	.62	J
12-R15	3/4"	1.260"	6000	415	24,000	1656	10.5"	1.03	J
16-R15	1"	1.516"	6000	415	24,000	1656	13.0"	1.40	J
20-R15	1 1/4"	1.953"	6000	415	24,000	1656	17.5"	2.52	H
24-R15	1 1/2"	2.248"	6000	415	24,000	1656	21.0"	3.32	H

HYDRA-MAX Four Spiral - Exceeds EN 856 4SP



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Four Steel Wire Spiral
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
6-4SP	3/8"	.827"	6500	450	26,000	1800	7.0"	.47	J
8-4SP	1/2"	.984"	6000	415	24,000	1660	9.0"	.62	J
10-4SP	5/8"	1.102"	5000	350	20,000	1400	10.0"	.71	J
12-4SP	3/4"	1.260"	5000	350	20,000	1400	11.8"	.97	J
16-4SP	1"	1.555"	4000	275	16,000	1100	13.3"	1.26	J

* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.

Hydraulic Hose - Spiral

HYDRA-MAX Multi Spiral - Exceeds EN 856 4SH



Application : Petroleum Base Hydraulic Fluids and Lubricating Oils
Inner Tube : Synthetic Rubber
Reinforcement : Four or Six Steel Wire Spirals Depending on Size
Cover : Synthetic Rubber
Temperature Range : -40°F to +212°F

Part Number	I.D.	O.D.	Maximum Working Pressure		Minimum Burst Pressure		Minimum Bend Radius	Weight (lbs/ft)	Hose End Series*
			PSI	BAR	PSI	BAR			
12-4SH	3/4"	1.260"	6000	420	24,000	1680	11.0"	1.01	J
16-4SH	1"	1.535"	5500	380	22,000	1520	13.5"	1.34	J
20-4SH	1 1/4"	1.772"	5000	325	20,000	1300	18.0"	1.61	J
24-4SH	1 1/2"	2.087"	4200	290	17,600	1160	22.0"	2.06	J
32-4SH	2"	2.677"	3600	250	14,400	1000	27.0"	3.05	J

Nylon Hose Sleeve Economical Hose Protection / Bundling



<u>GFC PART #</u>	<u>NOMINAL I.D.</u>	<u>FLAT O.D.</u>
NPS-067	.067	1.18
NPS-079	.079	1.34
NPS-091	.091	1.54
NPS-098	.098	1.65
NPS-106	1.06	1.77
NPS-122	1.22	2.05
NPS-130	1.30	2.17
NPS-142	1.42	2.24
NPS-154	1.54	2.52
NPS-157	1.57	2.60
NPS-169	1.69	2.80
NPS-173	1.73	2.83
NPS-185	1.85	3.03
NPS-209	2.09	3.39
NPS-217	2.17	3.50
NPS-236	2.36	3.82
NPS-260	2.60	4.21
NPS-287	2.87	4.65
NPS-295	2.95	4.76
NPS-335	3.35	5.35
NPS-366	3.66	5.87

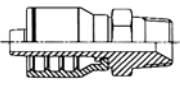
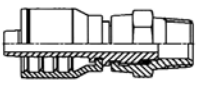
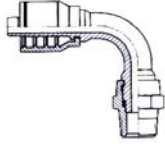
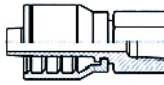
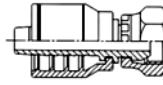
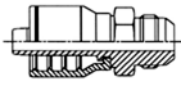
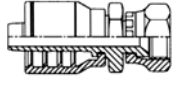
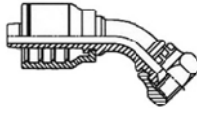
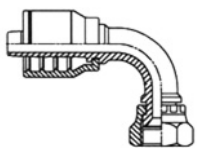
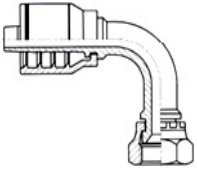
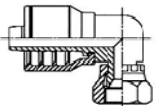
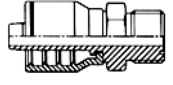
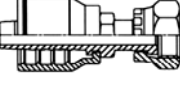
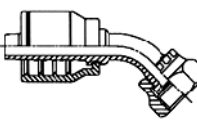
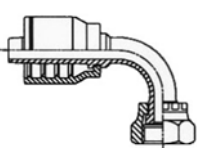
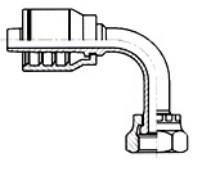
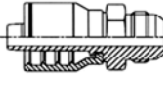

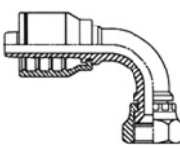
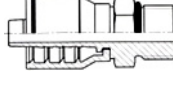
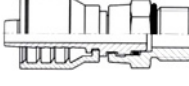
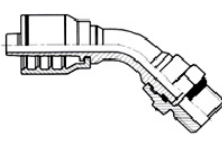
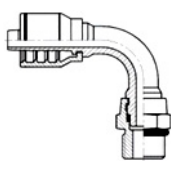
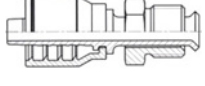
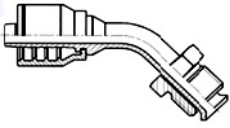
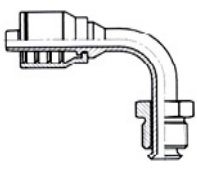

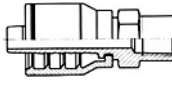
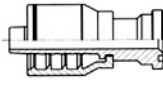
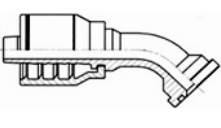
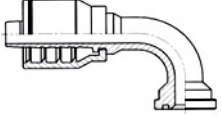
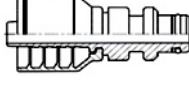
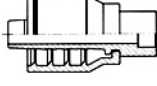
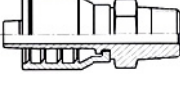
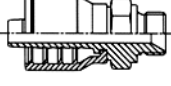
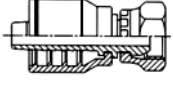
* Hydra-Max hose is compatible with most manufacturers' hose ends of like series. Please contact the factory with any compatibility questions.



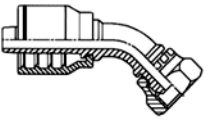
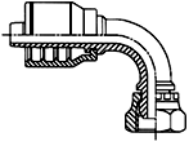
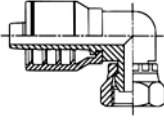
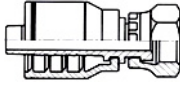
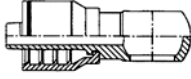
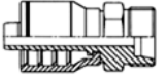
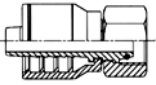
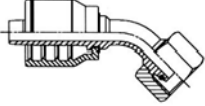
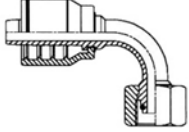
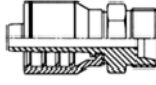
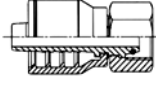
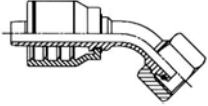
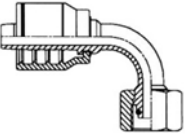
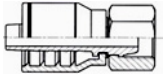
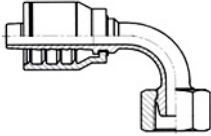
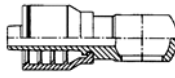
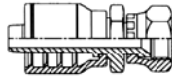
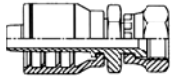
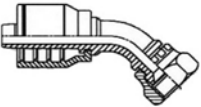
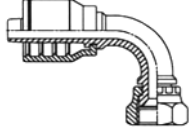
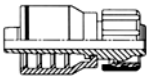

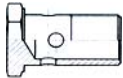
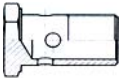
Intertraco hose couplings provide a very reliable product designed and rigorously tested for the most demanding hydraulic applications. Global Fluid Connections stocks a full inventory of Intertraco Hose Couplings from 1/4" 1-wire trough 2" 6,000 psi Six Spiral. Please refer to the following chart for proper coupling selection. If you have any questions or need assistance, please call (866) 333-5565.

Hose Type	Reinforcement	Coupling	Maximum Working Pressure (PSI)								
			1/4"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"
1SN / 100R1AT	1 wire braid	K	3,265	2,610	2,320	1,890	1,525	1,275	x	x	x
		J	x	2,610	2,320	1,890	1,525	1,275	915	725	580
2SN / 100R2AT	2 wire braid	K	5,800	4,800	4,000	3,600	3,100	2,400	x	x	x
		J	x	4,800	4,000	3,600	3,100	2,400	1,800	1,300	1,150
1SC / 100R17	1 or 2 wire braid (depending on size)	K	3,000	3,000	3,000	3,000	3,000	3,000	x	x	x
		J	3,000	3,000	3,000	3,000	3,000	3,000	x	x	x
2SC / 100R16	2 wire braid	K	5,800	4,800	4,000	3,625	3,100	2,400	x	x	x
		J	x	4,800	4,000	3,625	3,100	2,400	x	x	x
SPX (Hybrid)	2 wire braid	K	x	x	5,000	x	x	x	x	x	x
Jack Hose	2 wire braid	K	10,000	10,000	x	x	x	x	x	x	x
100R12	4 wire spiral	J	x	4,000	4,000	4,000	4,000	4,000	3,000	2,500	2,500
4SP	4 wire spiral	J	x	6,500	6,000	5,000	5,000	4,000	x	x	x
4SH	4 wire spiral	J	x	x	x	x	6,000	5,500	5,000	4,200	3,600
100R13	4 or 6 wire spiral	H	x	x	5,000	5,000	5,000	5,000	5,000	5,000	5,000
100R15	4 or 6 wire spiral	H	x	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000

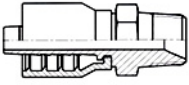
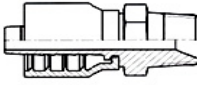
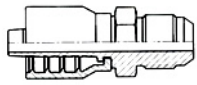
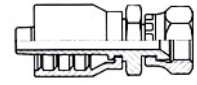
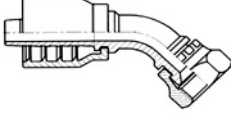
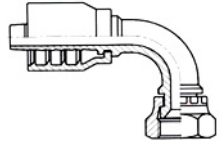
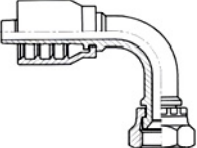
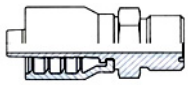
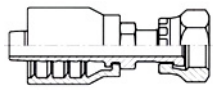
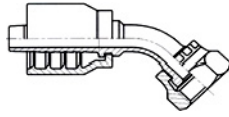
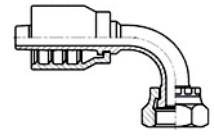
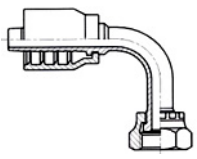
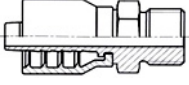
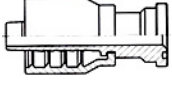
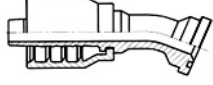
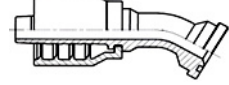
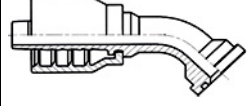
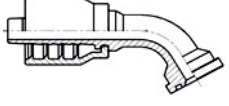
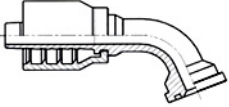
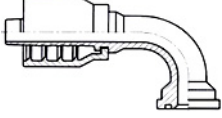
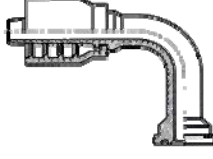
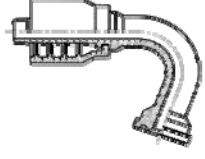
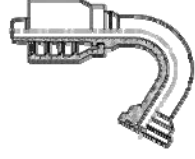
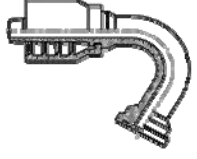
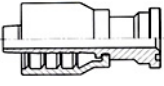
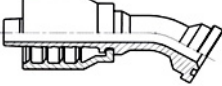
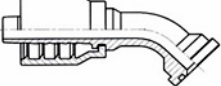
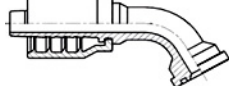
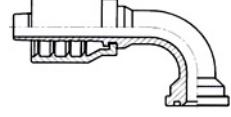
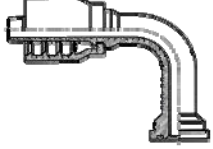
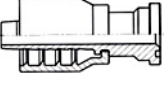
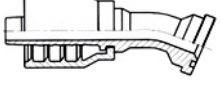
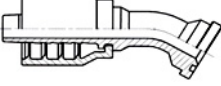
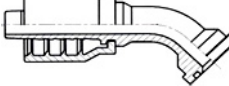
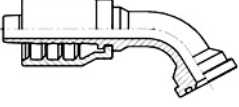
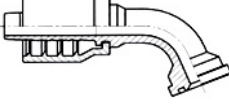
K Series - Wire Braided Hose Couplings

<p>KMP MN10K</p>  <p>Male NPT Rigid</p>	<p>KMPX MG10K</p>  <p>Male NPT Swivel</p>	<p>KMPX90 MG90K</p>  <p>Male NPT Swivel 90°</p>	<p>KFP FN10K</p>  <p>Female NPT Rigid</p>	<p>KFPX FN11K</p>  <p>Female NPSM (Female Pipe Swivel)</p>	<p>KMJ MJ10K</p>  <p>Male JIC 37° Flare</p>
<p>KFJX FJ11K</p>  <p>Female JIC Swivel</p>	<p>KFJX45 FJ41K</p>  <p>Fem JIC Swivel 45°</p>	<p>KFJX90 FJ91K</p>  <p>Fem JIC Swivel 90°</p>	<p>KFJX90L FJ91K*</p>  <p>Fem JIC Swivel 90° Long Drop</p>	<p>KFJX90B KJ91K</p>  <p>Fem JIC Swivel 90° Forged Style</p>	<p>KMFOR OM10K</p>  <p>Male ORS</p>
<p>KFFORX OR13K</p>  <p>Female ORS Swivel</p>	<p>KFFORX45 OR43K</p>  <p>Fem ORS Swivel 45°</p>	<p>KFFORX90 OR93K</p>  <p>Fem ORS Swivel 90°</p>	<p>KFFORX90L OR93K*</p>  <p>Fem ORS Swivel 90° Long Drop</p>	<p>KMS MU10K</p>  <p>Male SAE 45° Flare</p>	<p>KFSX FU11K</p>  <p>Female SAE Flare</p>
<p>KFSX90 FU91K</p>  <p>Fem SAE Flare 90°</p>	<p>KMB ME10K</p>  <p>Male SAE O-Ring Rigid</p>	<p>KMBX MV10K</p>  <p>Male SAE O-Ring Swivel</p>	<p>KMBX45 MV40K</p>  <p>Male SAE O-Ring Swivel 45°</p>	<p>KMBX90 MV90K</p>  <p>Male SAE O-Ring Swivel 90°</p>	<p>KMIX MZ10K</p>  <p>Male Inverted Flare Swivel</p>
<p>KMIX45 MZ40K</p>  <p>Male Inverted Flare Swivel 45°</p>	<p>KMIX90 MZ90K</p>  <p>Male Inverted Flare Swivel 90°</p>	<p>KMFA MFA10K</p>  <p>Flareless Bite-Type Tube Assembly</p>	<p>KFG FGR10K</p>  <p>Female Grease Rigid</p>	<p>KFL AX10K</p>  <p>Code 61 Flange</p>	<p>KFL45 AX40K</p>  <p>Code 61 Flange 45°</p>
<p>KFL90 AX90K</p>  <p>Code 61 Flange 90°</p>	<p>MSL ST11K</p>  <p>Male Staple Lock</p>	<p>KFBO WO10K</p>  <p>Tube Braze-On Fractional</p>	<p>KMBPT MT10K</p>  <p>Male BSPT</p>	<p>KMBPP MB10K</p>  <p>Male BSPP 60° Seat</p>	<p>KFBPPX FB11K</p>  <p>Female BSPP Swivel 60° Cone Seat</p>

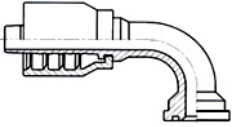
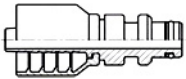
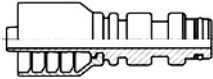
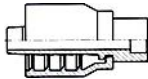
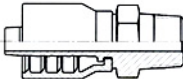
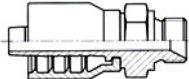
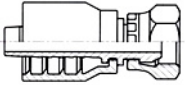
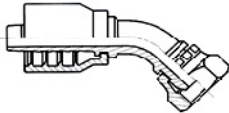
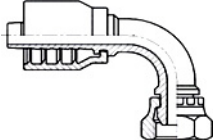
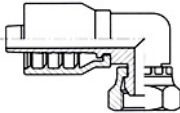
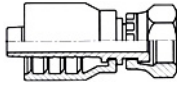
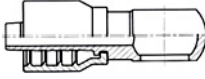
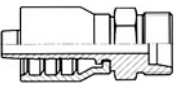
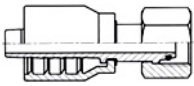
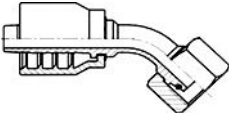
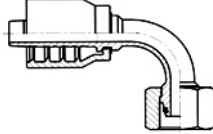
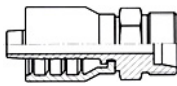
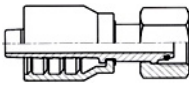
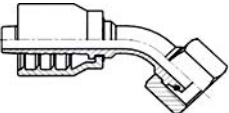
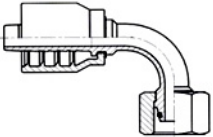
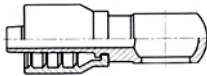
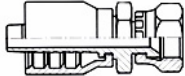
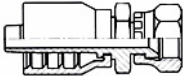
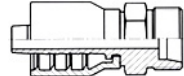
K Series - Wire Braided Hose Couplings

<p>KFBPPX45 FB41K</p>  <p>Fem BSPP Swivel 45° 60° Cone Seat</p>	<p>KFBPPX90 FB91K</p>  <p>Fem BSPP Swivel 90° 60° Cone Seat</p>	<p>KFBPPX90B KM91K</p>  <p>Fem BSPP Swivel 90° Forged</p>	<p>KFBFFX FP11K</p>  <p>Female BSPP Face Seal</p>	<p>KBBJ BB10K</p>  <p>BSP Banjo</p>	<p>KMDL ML10K</p>  <p>Male DIN Light</p>
<p>KFDLX FL13K</p>  <p>Female DIN Light Swivel</p>	<p>KFDLX45 FL43K</p>  <p>Female DIN Light Swivel 45°</p>	<p>KFDLX90 FL93K</p>  <p>Female DIN Light Swivel 90°</p>	<p>KMDH MS10K</p>  <p>Male DIN Heavy</p>	<p>KFDHX FS13K</p>  <p>Female DIN Heavy Swivel</p>	<p>KFDHX45 FS43K</p>  <p>Female DIN Heavy Swivel 45°</p>
<p>KFDHX90 FS93K</p>  <p>Female DIN Heavy Swivel 90°</p>	<p>KFDX FQ13K</p>  <p>Female DIN 60° Cone Seat</p>	<p>KFDX90 FQ93K</p>  <p>Female DIN 60° Cone Seat 90°</p>	<p>KMBJ BM10K</p>  <p>Metric Banjo</p>	<p>KFJISX FT11K</p>  <p>Female JIS Swivel BSPP Threads</p>	<p>KFKX FK11K</p>  <p>Female KOMATSU® Swivel Metric Threads</p>
<p>KFKX45 FK41K</p>  <p>Fem KOMATSU® 45° Swivel Metric Threads</p>	<p>KFKX90 FK91K</p>  <p>Fem KOMATSU® 90° Swivel Metric Threads</p>	<p>KFPWX KW13K</p>  <p>Female Pressure Washer 22x1.5</p>	<p>HBR</p>  <p>Hose Bend Restrictor</p>	<p>BBJ KW13K</p>  <p>BSP Banjo Bolt</p>	<p>MBJ VM10B</p>  <p>Metric Banjo Bolt</p>

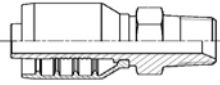
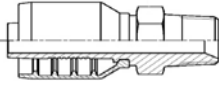
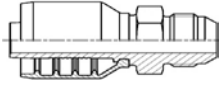
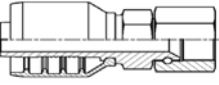
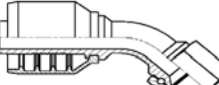
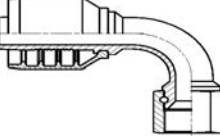
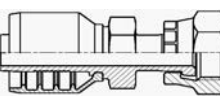
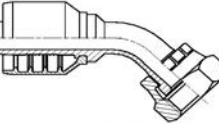
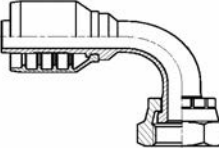
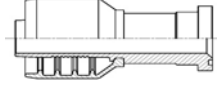
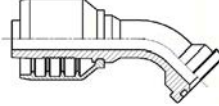
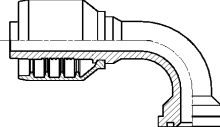
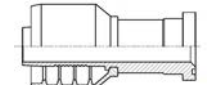
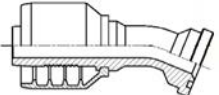
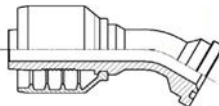
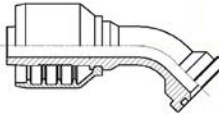
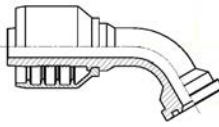
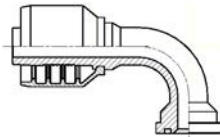
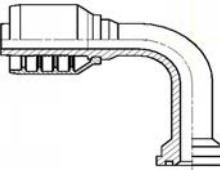
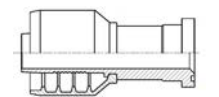
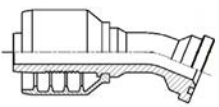
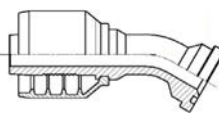
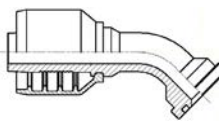
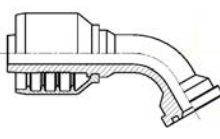
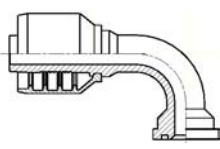
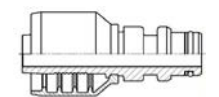
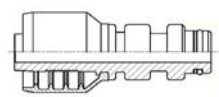
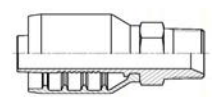
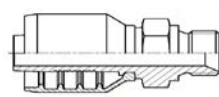
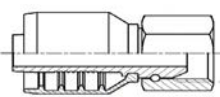
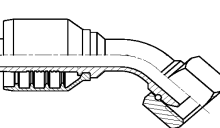
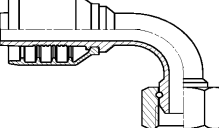
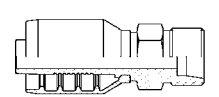
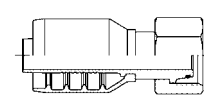
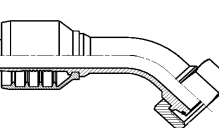
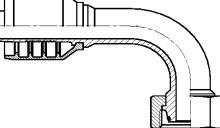
J Series - Spiral Wire Hose Couplings

<p>JMP MN10J</p>  <p>Male NPT Rigid</p>	<p>JMAPI MNA10J</p>  <p>Male API</p>	<p>JMJ MJ10J</p>  <p>Male JIC</p>	<p>JFJX FJ11J</p>  <p>Female JIC Swivel</p>	<p>JFJX45 FJ41J</p>  <p>Female JIC Swivel 45°</p>	<p>JFJX90 FJ91J</p>  <p>Female JIC Swivel 90°</p>
<p>JFJX90L FJ91J*</p>  <p>Female JIC Swivel 90° Long</p>	<p>JMFOR OM10J</p>  <p>Male ORS</p>	<p>JFFORX OR13J</p>  <p>Female ORS Swivel</p>	<p>JFFORX45 OR43J</p>  <p>Female ORS Swivel 45°</p>	<p>JFFORX90 OR93J</p>  <p>Female ORS Swivel 90°</p>	<p>JFFORX90L OR93J</p>  <p>Female ORS Swivel 90° Long</p>
<p>JMB ME10J</p>  <p>Male SAE O-Ring</p>	<p>JFL AX10J</p>  <p>Code 61 Flange</p>	<p>JFL22 AX20J</p>  <p>Code 61 Flange 22.5°</p>	<p>JFL30 AX30J</p>  <p>Code 61 Flange 30°</p>	<p>JFL45 AX40J</p>  <p>Code 61 Flange 45°</p>	<p>JFL60 AX60J</p>  <p>Code 61 Flange 60°</p>
<p>JFL67 AX70J</p>  <p>Code 61 Flange 67°</p>	<p>JFL90 AX90J</p>  <p>Code 61 Flange 90°</p>	<p>JFL90L AX90J*</p>  <p>Code 61 Flange 90° Long</p>	<p>JFL110 AX110J</p>  <p>Code 61 Flange 110°</p>	<p>JFL120 AX120J</p>  <p>Code 61 Flange 120°</p>	<p>JFL135 AX135J</p>  <p>Code 61 Flange 135°</p>
<p>JFLH AY10J</p>  <p>Code 62 Flange</p>	<p>JFLH30 AY30J</p>  <p>Code 62 Flange 30°</p>	<p>JFLH45 AY40J</p>  <p>Code 62 Flange 45°</p>	<p>JFLH60 AY60J</p>  <p>Code 62 Flange 60°</p>	<p>JFLH90 AY90J</p>  <p>Code 62 Flange 90°</p>	<p>JFLH90L AY90J*</p>  <p>Code 62 Flange 90° Long</p>
<p>JFLC AY1CJ</p>  <p>SuperCat Flange</p>	<p>JFLC22 AY2CJ</p>  <p>SuperCat Flange 22.5°</p>	<p>JFLC30 AY3CJ</p>  <p>SuperCat Flange 30°</p>	<p>JFLC45 AY4CJ</p>  <p>SuperCat Flange 45°</p>	<p>JFLC60 AY6CJ</p>  <p>SuperCat Flange 60°</p>	<p>JFLC67 AY7CJ</p>  <p>SuperCat Flange 67.5°</p>

J Series - Spiral Wire Hose Couplings

<p>JFLC90 AY9CJ</p>  <p>SuperCat Flange 90°</p>	<p>JMSL ST11J</p>  <p>Male Staple Lock</p>	<p>JMSLH SS11J</p>  <p>Male Staple Lock Heavy</p>	<p>JFBO WO10J</p>  <p>Tube Braze-on</p>	<p>JMBPT MT10J</p>  <p>Male BSPT Rigid)</p>	<p>JMBPP MB10J</p>  <p>Male BSPP</p>
<p>JFBPPX FB11J</p>  <p>Female BSPP Swivel 60° Cone Seat</p>	<p>JFBPPX45 FB41J</p>  <p>Female BSPP Swivel 45°</p>	<p>JFBPPX90 FB91J</p>  <p>Female BSPP Swivel 90°</p>	<p>JFBPPX90B KM91J</p>  <p>Female BSPP Swivel 90° Forged</p>	<p>JFBFFX FP11J</p>  <p>Female BSPP Swivel Face Seal</p>	<p>JMBJ BB10J</p>  <p>BSPP Banjo</p>
<p>JMDL ML10J</p>  <p>Male Din Light</p>	<p>JFDLX FL13J</p>  <p>Female DIN Light Swivel</p>	<p>JFDLX45 FL43J</p>  <p>Female DIN Light Swivel 45°</p>	<p>JFDLX90 FL93J</p>  <p>Female DIN Light Swivel 90°</p>	<p>JMDH MS10J</p>  <p>Male DIN Heavy</p>	<p>JFDHX FS13J</p>  <p>Female DIN Heavy Swivel</p>
<p>JFDHX45 FS43J</p>  <p>Female DIN Swivel 45°</p>	<p>JFDHX90 FS93J</p>  <p>Female DIN Swivel 90°</p>	<p>JMBJ BM10J</p>  <p>Metric Banjo</p>	<p>JFJISX FT11J</p>  <p>Female JIS Swivel BSPP Threads</p>	<p>JFKX FK11J</p>  <p>Female KOMATSU® Swivel</p>	<p>JMKB KC10J</p>  <p>Male KOBELCO®</p>

H Series - Spiral Wire Hose Couplings

<p>HMP <i>MN10H</i></p>  <p>Male NPT Rigid</p>	<p>HMAPI <i>MNA10H</i></p>  <p>Male API</p>	<p>HMJ <i>MJ10H</i></p>  <p>Male JIC</p>	<p>HFJX <i>FJ12H</i></p>  <p>Female JIC Swivel</p>	<p>HFJX45 <i>FJ42H</i></p>  <p>Female JIC Swivel 45°</p>	<p>HFJX90 <i>FJ92H</i></p>  <p>Female JIC Swivel 90°</p>
<p>HFFORX <i>OR13H</i></p>  <p>Female ORS Swivel</p>	<p>HFFORX45 <i>OR43H</i></p>  <p>Female ORS Swivel 45°</p>	<p>HFFORX90 <i>OR93H</i></p>  <p>Female ORS Swivel 90°</p>	<p>HFL <i>AX10H</i></p>  <p>Code 61 Flange</p>	<p>HFL45 <i>AX40H</i></p>  <p>Code 61 Flange 45°</p>	<p>HFL90 <i>AX90H</i></p>  <p>Code 61 Flange 90°</p>
<p>HFLH <i>AY10H</i></p>  <p>Code 62 Flange</p>	<p>HFLH22 <i>AY20H</i></p>  <p>Code 62 Flange 22°</p>	<p>HFLH30 <i>AY30H</i></p>  <p>Code 62 Flange 30°</p>	<p>HFLH45 <i>AY40H</i></p>  <p>Code 62 Flange 45°</p>	<p>HFLH60 <i>AY60H</i></p>  <p>Code 62 Flange 60°</p>	<p>HFLH90 <i>AY90H</i></p>  <p>Code 62 Flange 90°</p>
<p>HFLH90L <i>AY90H-L</i></p>  <p>Code 62 Flange 67°</p>	<p>HFLC <i>AY1CH</i></p>  <p>Super Cat Flange</p>	<p>HFLC22 <i>AY2CH</i></p>  <p>Super Cat Flange 22°</p>	<p>HFLC30 <i>AY3CH</i></p>  <p>Super Cat Flange 30°</p>	<p>HFLC45 <i>AY4CH</i></p>  <p>Super Cat Flange 45°</p>	<p>HFLC60 <i>AY6CH</i></p>  <p>Super Cat Flange 60°</p>
<p>HFLC90 <i>AY9CH</i></p>  <p>Super Cat Flange 90°</p>	<p>HSL <i>MT10H</i></p>  <p>Male Staple Lock</p>	<p>HSLH <i>MB10H</i></p>  <p>Male Staple Lock Heavy</p>	<p>HMBPT <i>MT10H</i></p>  <p>Male BSPT</p>	<p>HMBPP <i>MB10H</i></p>  <p>Male BSPP</p>	<p>HFBPPX <i>FB12H</i></p>  <p>Female BSPP Swivel</p>
<p>HFBPPX45 <i>FB42H</i></p>  <p>Female BSPP Swivel 45°</p>	<p>HFBPPX90 <i>FB92H</i></p>  <p>Female BSPP Swivel 90°</p>	<p>HMDH <i>MS10H</i></p>  <p>Male DIN Heavy</p>	<p>HFDHX <i>FS13H</i></p>  <p>Female DIN Heavy Swivel</p>	<p>HFDHX45 <i>FS43H</i></p>  <p>Female DIN Heavy Swivel 45°</p>	<p>HFDHX90 <i>FS93H</i></p>  <p>Female DIN Heavy Swivel 90°</p>

Intertraco Crimp Specifications

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
K Series for 1SN / 100R2AT					
1SN / R1AT	1/4"	K-04	16.70 mm	0.657"	Full
1SN / R1AT	3/8"	K-06	20.90 mm	0.823"	Full
1SN / R1AT	1/2"	K-08	24.20 mm	0.953"	Full
1SN / R1AT	5/8"	K-10	27.50 mm	1.083"	Full
1SN / R1AT	3/4"	K-12	31.80 mm	1.252"	Full
1SN / R1AT	1"	K-16	40.65 mm	1.600"	Full
K Series for 2SN / 100R2AT					
2SN / R2AT	1/4"	K-04	17.80 mm	0.701"	Full
2SN / R2AT	3/8"	K-06	22.00 mm	0.866"	Full
2SN / R2AT	1/2"	K-08	25.50 mm	1.004"	Full
2SN / R2AT	5/8"	K-10	28.80 mm	1.134"	Full
2SN / R2AT	3/4"	K-12	32.90 mm	1.295"	Full
2SN / R2AT	1"	K-16	41.65 mm	1.640"	Full

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
K Series for 100R17					
1SC / R17	1/4"	K-04	16.00 mm	0.630"	Full
1SC / R17	3/8"	K-06	19.80 mm	0.780"	Full
1SC / R17	1/2"	K-08	23.30 mm	0.917"	Full
1SC / R17	5/8"	K-10	27.00 mm	1.063"	Full
1SC / R17	3/4"	K-12	30.80 mm	1.213"	Full
1SC / R17	1"	K-16	39.60 mm	1.559"	Full
K Series for 2SC / 100R16					
2SC / R16	1/4"	K-04	17.00 mm	0.669"	Full
2SC / R16	3/8"	K-06	20.90 mm	0.823"	Full
2SC / R16	1/2"	K-08	24.80 mm	0.976"	Full
2SC / R16	5/8"	K-10	28.50 mm	1.122"	Full
2SC / R16	3/4"	K-12	31.80 mm	1.252"	Full
2SC / R16	1"	K-16	39.80 mm	1.567"	Full

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
J Series for 1SN / 100R1AT					
1SN / R1AT	3/8"	J-06	21.70 mm	0.854"	Full
1SN / R1AT	1/2"	J-08	23.80 mm	0.937"	Full
1SN / R1AT	5/8"	J-10	31.00 mm	1.220"	Full
1SN / R1AT	3/4"	J-12	31.75 mm	1.250"	Full
1SN / R1AT	3/4"	2J-12	33.00 mm	1.299"	Full
1SN / R1AT	1"	J-16	41.30 mm	1.626"	Full
1SN / R1AT	1 1/4"	J-20	51.30 mm	2.020"	Full
1SN / R1AT	1 1/2"	J-24	60.00 mm	2.362"	Full
1SN / R1AT	2"	J-32	69.90 mm	2.752"	Full
J Series for 2SN / 100R2AT					
2SN / R2AT	3/8"	J-06	22.80 mm	0.898"	Full
2SN / R2AT	1/2"	J-08	24.90 mm	0.980"	Full
2SN / R2AT	5/8"	J-10	32.20 mm	1.268"	Full
2SN / R2AT	3/4"	J-12	32.60 mm	1.283"	Full
2SN / R2AT	3/4"	2J-12	34.10 mm	1.343"	Full
2SN / R2AT	1"	J-16	42.30 mm	1.665"	Full
2SN / R2AT	1 1/4"	J-20	52.40 mm	2.063"	Full
2SN / R2AT	1 1/2"	J-24	60.90 mm	2.398"	Full
2SN / R2AT	2"	J-32	72.90 mm	2.870"	Full

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
J Series 100R12					
R12	3/8"	J-06	24.20 mm	0.953"	Full
R12	1/2"	J-08	25.40 mm	1.000"	Full
R12	5/8"	J-10	32.60 mm	1.283"	Full
R12	3/4"	J-12	35.20 mm	1.386"	Full
R12	3/4"	2J-12	35.20 mm	1.386"	Full
R12	1"	J-16	41.40 mm	1.630"	Full
R12	1 1/4"	J-20	51.90 mm	2.043"	Full
R12	1 1/2"	J-24	60.30 mm	2.374"	Full
R12	2"	J-32	74.80 mm	2.945"	Full
J Series for 4SH					
4SH	3/4"	J-12	35.50 mm	1.398"	Full
4SH	3/4"	2J-12	35.50 mm	1.398"	Full
4SH	1"	J-16	41.40 mm	1.630"	Full
4SH	H4-20	J-20	50.10 mm	1.972"	Full
4SH	H4-24	J-24	59.20 mm	2.331"	Full
4SH	H4-32	J-32	74.20 mm	2.921"	Full
J Series for 100R13					
R13	3/4"	J-12	34.20 mm	1.346"	Full
R13	1"	J-16	42.00 mm	1.654"	Full
J Series for 100R15					
R15	3/8"	J-06	23.60 mm	0.929"	Full
R15	1/2"	J-08	25.60 mm	1.008"	Full
R15	5/8"	J-10	32.40 mm	1.276"	Full
R15	3/4"	J-12	35.50 mm	1.398"	Full
R16	3/4"	2J-12	35.50 mm	1.398"	Full
R15	1"	J-16	42.00 mm	1.654"	Full

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
H Series for 100R13					
R13	1 1/4"	H-20	57.00 mm	2.244"	Full
R13	1 1/2"	H-24	63.70 mm	2.508"	Full
R13	2"	H-32	78.80 mm	3.102"	Full

Hose	I.D.	Coupling	CRIMP O.D. (MM)	CRIMP O.D. (INCHES)	CRIMP LENGTH
H Series for 100R15					
R15	1 1/4"	H-20	57.00 mm	2.244"	Full
R15	1 1/2"	H-24	63.70 mm	2.508"	Full
R15	2"	H-32	78.80 mm	3.102"	Full