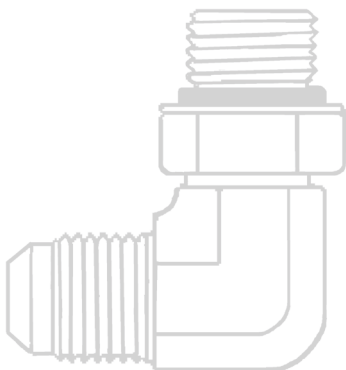




ADAPTER & FITTING POCKET GUIDE



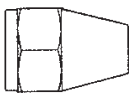
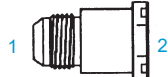
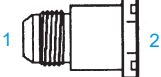
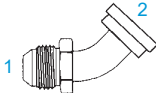
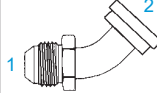
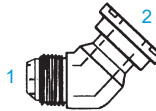
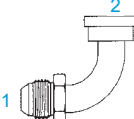
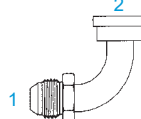
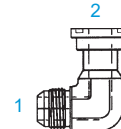
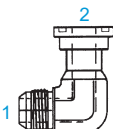
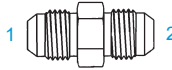
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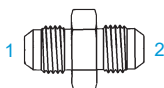
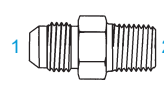
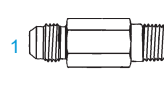
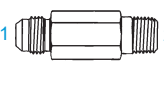
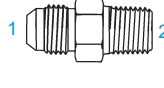
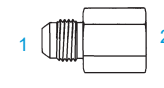
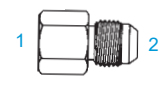
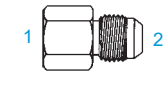
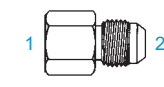
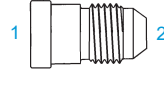
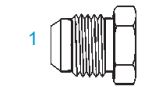
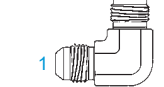
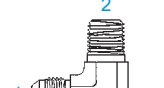
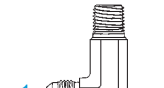
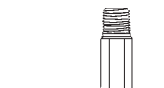
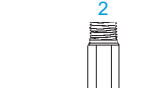
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to maintain and improve our customer satisfaction by
providing hydraulic and pneumatic fittings and
accessories that consistently meet our customer's
specified product and delivery requirements."*

IMPORT STEEL ADAPTERS TUBE FITTINGS, J.I.C. - S.A.E.

 Y-0302 Short Nut	 Y-0304 Standard Nut	 Y-0304-C 37° Cap Nut
070118		070110
 Y-0306 Bulkhead Lock Nut	 Y-0306-N Adjustable Lock Nut	 Y-0318 37° Nut
070115		
 Y-0319 37° Sleeve	 Y-1700-61 - Str. (1) Male 37° (2) O-Ring Flange Code 61	 Y-1700-62 - Str. (1) Male 37° (2) O-Ring Flange Code 62
 Y-1703-61 - 45° (1) Male 37° (2) O-Ring Flange Code 61	 Y-1703-62 - 45° (1) Male 37° (2) O-Ring Flange Code 62	 Y-1703-F-61 - 45° (1) Male 37° (2) O-Ring Flange Code 61
 Y-1703-F-62 - 45° (1) Male 37° (2) O-Ring Flange Code 62	 Y-1704-61 - 90° (1) Male 37° (2) O-Ring Flange Code 61	 Y-1704-62 - 90° (1) Male 37° (2) O-Ring Flange Code 62
 Y-1704-F-61 - 90° (1) Male 37° (2) O-Ring Flange Code 61	 Y-1704-F-62 - 90° (1) Male 37° (2) O-Ring Flange Code 62	070101  Y-2403 - Str. (1)(2) Male 37° Union

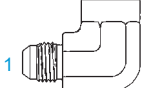
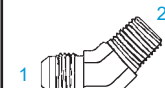
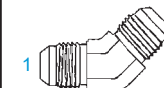
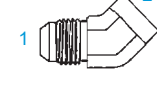
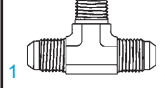
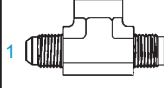
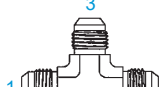
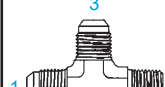
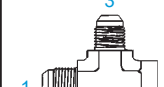
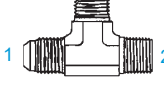
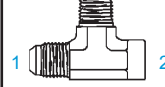
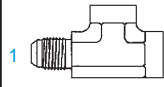
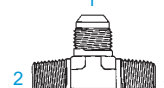
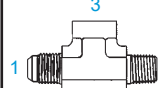
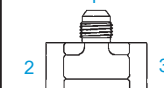
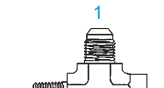
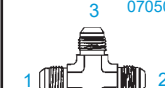
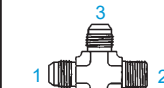
TUBE FITTINGS, J.I.C.- S.A.E.

Continued

 Y-2403-LH - Str. (1)(2) Male 37° Union Large Hex	 Y-2404 - Str. (1) Male 37° (2) Male Pipe	 Y-2404-L - Str. (1) Male 37° (2) Male Pipe-Long
 Y-2404-LL - Str. (1) Male 37° (2) Male Pipe-Ex. Long	 RESTRICTOR Y-2404-R - Str. (1) Male 37° (2) Male Pipe	 Y-2405 - Str. (1) Male 37° (2) Fem. Pipe
 Y-2406 - Str. Reducer & Expander (1) 37° Fem. (2) Male 37°	 BLANK Y-2406-BLK - Str. Reducer & Expander (1) 37° Fem. (2) Male 37°	 RESTRICTOR Y-2406-R - Str. Reducer & Expander (1) 37° Fem. (2) Male 37°
 Y-2407 - Str. Reducer (1) 37° Fem. (2) Male 37°	 Y-2408 (1) Male 37° Plug	 Y-2500-F - 90° (1)(2) Male 37°
 Y-2501-F - 90° (1) Male 37° (2) Male Pipe	 Y-2501-F-L - 90° (1) Male 37° (2) Male Pipe-Long	 Y-2501-F-LL - 90° (1) Male 37° (2) Male Pipe-Ex. Long
 Y-2501-F-LLL - 90° (1) Male 37° (2) Male Pipe-Ex. Ex. Long	 Y-2501-F-S - 90° (1) Male 37° (2) Male Pipe Swivel	 RESTRICTOR Y-2501-F-R - 90° (1) Male 37° (2) Male Pipe

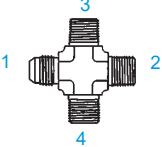
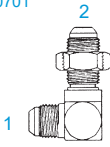
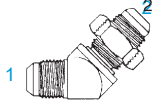
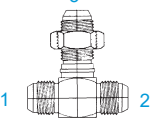
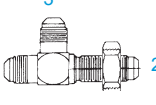
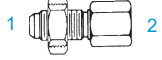
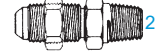
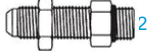
TUBE FITTINGS, J.I.C.- S.A.E.

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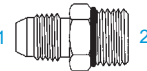
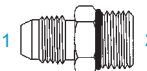
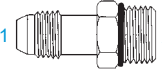
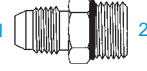
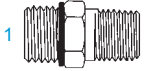
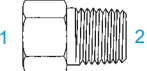
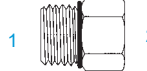
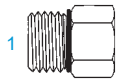
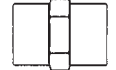
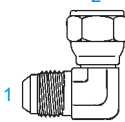
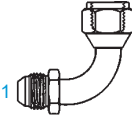
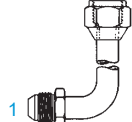
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 Y-2505-F - 45° (1) Male 37° (2) Fem. Pipe	 Y-2601-F - Tee (1)(2) Male 37° (3) Male Pipe	 Y-2602-F - Tee (1)(2) Male 37° (3) Fem. Pipe
 Y-2603-F - Tee (1)(2)(3) Male 37°	 Y-2605-F - Tee (1)(3) Male 37° (2) Male Pipe	 Y-2606-F - Tee (1)(3) Male 37° (2) Fem. Pipe
 Y-2607-F - Tee (1) Male 37° (2)(3) Male Pipe	 Y-2608-F - Tee (1) Male 37° (2) Fem. Pipe (3) Male Pipe	 Y-2609-F - Tee (1) Male 37° (2)(3) Fem. Pipe
 Y-2610-F - Tee (1) Male 37° (2)(3) Male Pipe	 Y-2611-F - Tee (1) Male 37° (2) Male Pipe (3) Fem. Pipe	 Y-2612-F - Tee (1) Male 37° (2)(3) Fem. Pipe
 Y-2613-F - Tee (1) Male 37° (2) Male Pipe (3) Fem. Pipe	 Y-2650-F - Cross (1)(2)(3)(4) Male 37°	 Y-2651-F - Cross (1)(3)(4) Male 37° (2) Male Pipe

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

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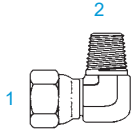
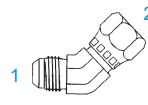
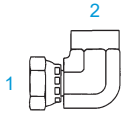
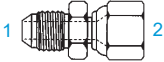
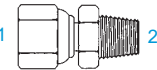
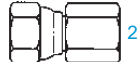
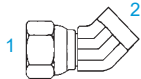
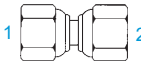
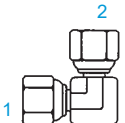
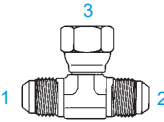
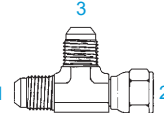
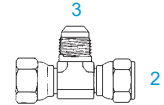
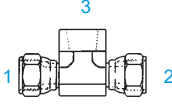
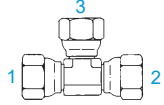
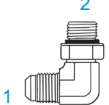
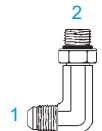
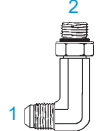
 Y-2655-F - Cross (1) Male 37° (2)(3)(4) Male Pipe	070601  Y-2700-LN - Str. (1) Male 37° (2) Bulkhead 37°	070701  Y-2701-F-LN - 90° (1) Male 37° (2) Bulkhead 37°
070801  Y-2702-F-LN- 45° (1) Male 37° (2) Bulkhead 37°	070959  Y-2703-F-LN- Tee (1)(2) Male 37° (3) Bulkhead 37°	 Y-2704-F-LN - Tee (1)(3) Male 37° (2) Bulkhead 37°
 Y-2705-LN- Str. (1) Bulkhead 37° (2) Fem. Pipe	 Y-2706-LN - Str. (1) Bulkhead 37° (2) Male Pipe	 Y-2711-LN-O - Str. (1) Bulkhead 37° (2) Male O-Ring

ADJUSTABLE & O-RING FITTINGS

 4000 - O-Ring Buna-N 90 Duro	070122  Y-6400-BLK-O- Str. (1) Male 37° (2) Male O-Ring	070122  Y-6400-O - Str. (1) Male 37° (2) Male O-Ring
070120  Y-6400-L-O - Str. (1) Male 37° (2) Male O-Ring - Long	070122  Y-6400-R-O - Str. (1) Male 37° (2) Male O-Ring	 Y-6401-O - Str. (1) Male O-Ring (2) Male Pipe
 Y-6402-O - Str. (1) Male O-Ring (2) 37° Fem. Swivel	 Y-6404 - Str. (1) Fem. O-Ring (2) Male Pipe	 Y-6405-O - Str. (1) Male O-Ring (2) Fem. Pipe
 Y-6408-O - Str. (1) Male O-Ring Plug	 Y-6408-HHP-O (1) Hollow Hex Male O-Ring Plug	 Y-6410-O - Str. (1) Male O-Ring (2) Fem. O-Ring
 Y-6412 - Str. (1) Fem. O-Ring (2) Fem. Pipe	 Y-6413 - Str. (1)(2) Fem. O-Ring	 Y-6464-NWO - Str. (1) Male O-Ring (2) Adj. O-Ring
070221  Y-6500-F - 90° (1) Male 37° (2) 37° Fem. Swivel	 Y-6500-L - 90° (1) Male 37° (2) 37° Fem. Swivel-Long	 Y-6500-LL - 90° (1) Male 37° (2) 37° Fem. Swivel-Ex. Long

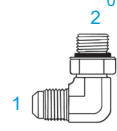
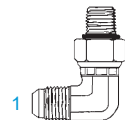
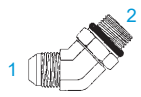
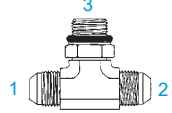
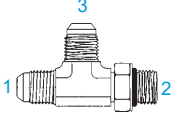
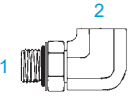
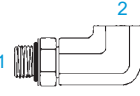
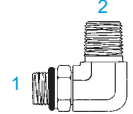
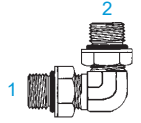
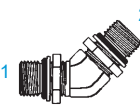
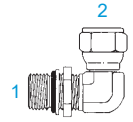
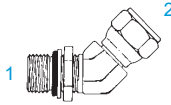
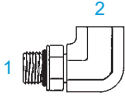
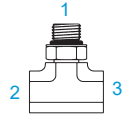
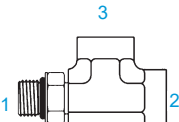
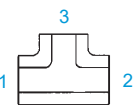
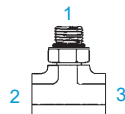
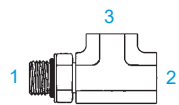
ADJUSTABLE & O-RING FITTINGS

Continued

 Y-6501-F - 90° (1) 37° Fem. Swivel (2) Male Pipe	 Y-6502-F - 45° (1) Male 37° (2) 37° Fem. Swivel	 Y-6503-F - 90° (1) 37° Fem. Swivel (2) Fem. Pipe
 Y-6504 - Str. (1) Male 37° (2) 37° Fem. Swivel	 Y-6505 - Str. (1) 37° Fem. Swivel (2) Male Pipe	 Y-6506 - Str. (1) 37° Fem. Swivel (2) Fem. Pipe
 Y-6507-F - 45° (1) 37° Fem. Swivel (2) Fem. Pipe	 Y-6565 - Str. (1)(2) 37° Fem. Swivel	 Y-6566-F - 90° (1)(2) 37° Fem. Swivel
 Y-6600-F - Tee (1)(2) Male 37° (3) 37° Fem. Swivel	 Y-6602-F - Tee (1)(3) Male 37° (2) 37° Fem. Swivel	 Y-6603-F - Tee (1)(2) 37° Fem. Swivel (3) Male 37°
 Y-6605-F - Tee (1)(2) 37° Fem. Swivel (3) Fem. Pipe	 Y-6606-F - Tee (1)(2)(3) 37° Fem. Swivel	 Y-6801-F-NWO - 90° (1) Male 37° (2) Adj. O-Ring
 Y-6801-F-L-NWO - 90° (1) Male 37° (2) Adj. O-Ring-Long	 Y-6801-F-LL-NWO - 90° (1) Male 37° (2) Adj. O-Ring-Ex. Long	 Y-6801-F-LLL-NWO - 90° (1) Male 37° (2) Adj. O-Ring-Ex. Ex. Long

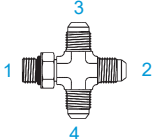
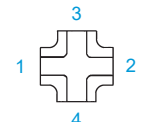
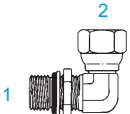
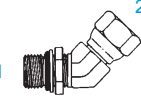
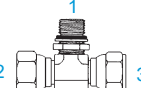
ADJUSTABLE & O-RING FITTINGS

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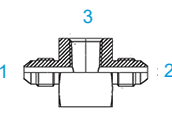
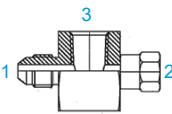
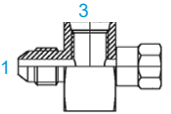
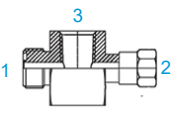
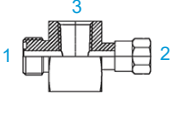
 Y-6801-F-R-NWO - 90° (1) Male 37° (2) Adj. O-Ring	 Y-6801-F-S-O - 90° (1) Male 37° (2) Male O-Ring Swivel	 Y-6802-F-NWO - 45° (1) Male 37° (2) Adj. O-Ring
 Y-6803-F-NWO - Tee (1)(2) Male 37° (3) Adj. O-Ring	 Y-6804-F-NWO - Tee (1)(3) Male 37° (2) Adj. O-Ring	 Y-6805-F-NWO - 90° (1) Adj. O-Ring (2) Fem. Pipe
 Y-6805-F-LL-NWO - 90° (1) Adj. O-Ring (2) Fem. Pipe-Ex. Long	 Y-6806-F-NWO - 90° (1) Adj. O-Ring (2) Male Pipe	 Y-6807-F-NWO - 90° (1)(2) Adj. O-Ring
 Y-6808-F-NWO - 45° (1) (2) Adj. O-Ring	 Y-6809-F-NWO - 90° (1) Adj. O-Ring (2) 37° Fem. Swivel	 Y-6810-F-NWO - 45° (1) Adj. O-Ring (2) 37° Fem. Swivel
 Y-6815-F-NWO - 90° (1) Adj. O-Ring (2) Fem. O-Ring	 Y-6863-F-NWO - Tee (1) Adj. O-Ring (2)(3) Fem. Pipe	 Y-6864-F-NWO - Tee (1) Adj. O-Ring (2) (3) Fem. Pipe
 Y-6868-F - Tee (1)(2)(3) Fem. O-Ring	 Y-6870-F-NWO - Tee (1) Adj. O-Ring (2)(3) Fem. O-Ring	 Y-6871-F-NWO - Tee (1) Adj. O-Ring (2)(3) Fem. O-Ring

ADJUSTABLE & O-RING FITTINGS

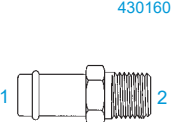
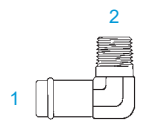
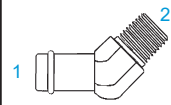
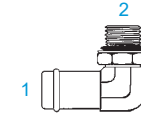
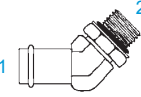
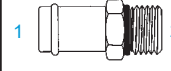
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 Y-6889-F-NWO - Cross (1) Adj. O-Ring (2)(3)(4) Male 37°	 Y-6892-F - Cross (1)(2)(3)(4) Fem. O-Ring	 Y-6900-O - Str. (1) Adj. O-Ring (2) Fem. Pipe Swivel
 Y-6901-F-NWO - 90° (1) Adj. O-Ring (2) Fem. Pipe Swivel	 Y-6902-F-NWO - 45° (1) Adj. O-Ring (2) Fem. Pipe Swivel	 Y-6911-F-NWO - Tee (1) Adj. O-Ring (2)(3) Fem. Pipe Swivel

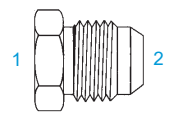
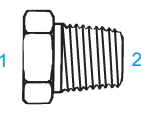
GAUGE PORT ADAPTERS

 Y-GP-2403- Tee (1) (2) Male 37° (3) Fem. Ppe Port	 Y-GP-6504- Tee (1) Male 37° (2) Fem. 37° Swivel (3) Fem. Ppe Port	 Y-GP-6564- Tee (1) Male 37° (2) Fem. 37° Swivel (3) Fem. O-Ring Port
 Y-GP-OFS-6504- Tee (1) Male OFS 37° (2) Fem.OFS 37° Swivel (3) Fem. Ppe Port	 Y-GP-OFS 6564-Tee (1) Male OFS 37° (2) Fem.OFS 37° Swivel (3) Fem. O-Ring Port	

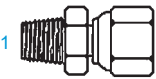
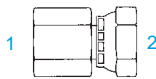
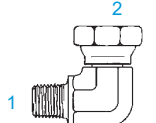
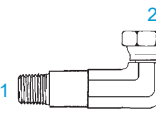
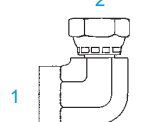
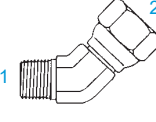
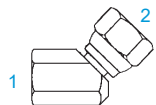
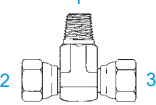
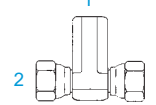
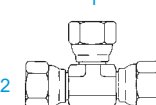
BEADED HOSE ADAPTERS

 Y-4404 - Str. (1) Beaded (2) Male Pipe	 Y-4501-F - 90° (1) Beaded (2) Male Pipe	 Y-4503-F - 45° (1) Beaded (2) Male Pipe
 Y-4601-F-NWO - 90° (1) Beaded (2) Adj. O-Ring	 Y-4603-F-NWO - 45° (1) Beaded (2) Adj. O-Ring	 Y-4604-O - Str. (1) Beaded (2) Male O-Ring

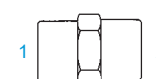
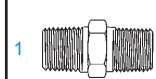
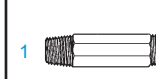
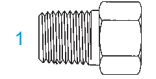
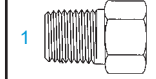
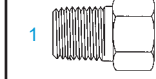
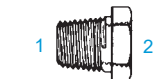
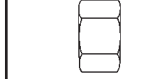
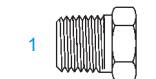
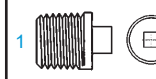
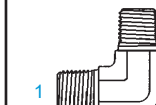
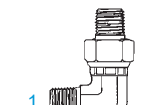
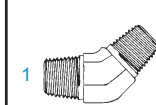
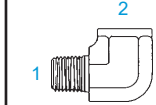
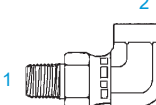
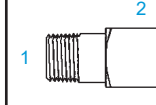
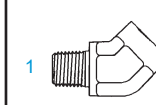
BRAZE FITTINGS FOR TUBING

 Y-0403 (1) Bore (2) Male 37°	 Y-0404 (1) Bore (2) Male Pipe	
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PIPE ADAPTER UNIONS

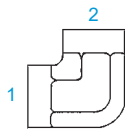
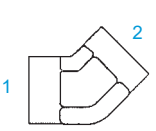
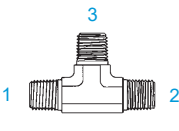
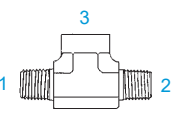
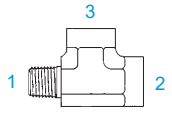
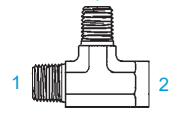
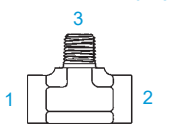
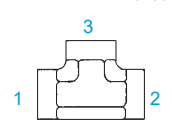
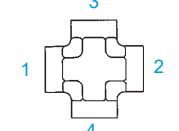
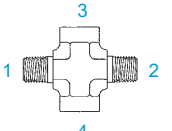
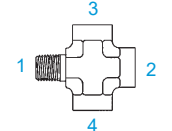
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 Y-1406 - Str. (1) Fem. Pipe Swivel (2) Fem. Pipe Swivel	140230  Y-1501-F - 90° (1) Male Pipe (2) Fem. Pipe Swivel	140230  Y-1501-F-LL - 90° (1) Male Pipe (2) Fem. Pipe Swivel
2  RESTRICTOR Y-1501-F-R - 90° (1) Male Pipe (2) Fem. Pipe Swivel	2  Y-1502-F - 90° (1) Fem. Pipe (2) Fem. Pipe Swivel	140330  Y-1503-F - 45° (1) Male Pipe (2) Fem. Pipe Swivel
1  Y-1504-F - 45° (1) Fem. Pipe (2) Fem. Pipe Swivel	1  Y-1601-F - Tee (1) Male Pipe (2)(3) Fem. Pipe Swivel	1  Y-1602-F - Tee (1) Fem. Pipe (2)(3) Fem. Pipe Swivel
1  Y-1603-F - Tee (1)(2)(3) Fem. Pipe Swivel		

PIPE FITTINGS

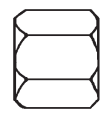
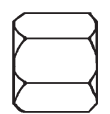
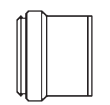
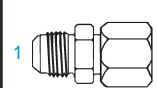
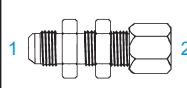
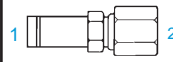
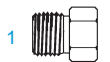
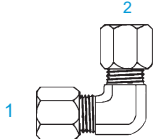
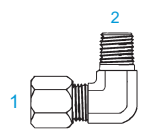
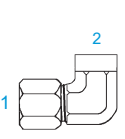
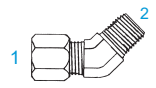
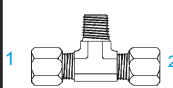
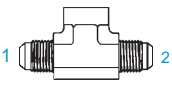
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140139  Y-5405 - Str. (1) Male Pipe (2) Fem. Pipe	140139  BLANK Y-5405-BLK - Str (1) Male Pipe (2) Fem. Pipe	140139  RESTRICTOR Y-5405-R - Str. (1) Male Pipe (2) Fem. Pipe
140140  Y-5406 - Str. Bushing (1) Male Pipe (2) Fem. Pipe	 Y-5406-C Pipe Cap	 Y-5406-HHP (1) Hollow Hex Pipe Plug
130109E  Y-5406-P - Plug (1) Pipe Plug	 Y-5406-SHP (1) Pipe plug Square Head	2  Y-5500-F - 90° (1)(2) Male Pipe
2  Y-5500-F-S - 90° (1) Male Pipe (2) Male Pipe Swivel	2  Y-5501-F - 45° (1)(2) Male Pipe	140239 2  Y-5502-F - 90° (1) Male Pipe (2) Fem. Pipe
2  Y-5502-F-S - 90° (1) Male Pipe Swivel (2) Fem. Pipe	2  Y-5502-F-SB - 90° Short Body (1) Male Pipe (2) Fem. Pipe	140339 2  Y-5503-F - 45° (1) Male Pipe (2) Fem. Pipe

PIPE FITTINGS

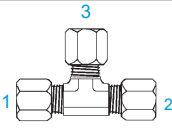
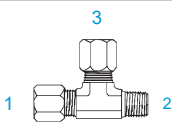
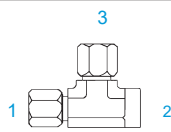
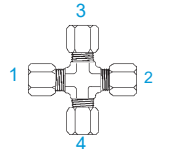
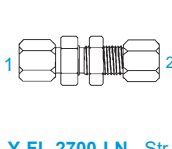
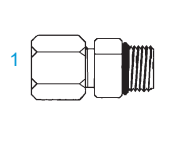
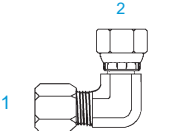
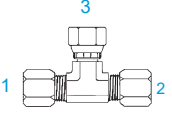
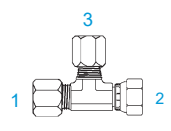
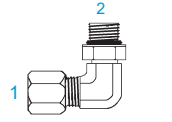
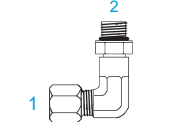
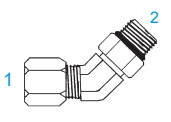
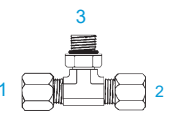
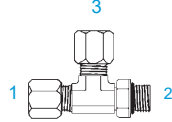
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 Y-5601-F - Tee (1)(2) Male Pipe (3) Fem. Pipe	140424  Y-5602-F - Tee (1) Male Pipe (2)(3) Fem. Pipe	 Y-5603-F - Tee (1)(3) Male Pipe (2) Fem. Pipe
140425  Y-5604-F - Tee (1)(2) Fem. Pipe (3) Male Pipe	140438  Y-5605-F - Tee (1)(2)(3) Fem. Pipe	 Y-5652-F - Cross (1)(2)(3)(4) Fem. Pipe
 Y-5653-F - Cross (1)(2) Male Pipe (3)(4) Fem. Pipe	 Y-5655-F - Cross (1) Male Pipe (2)(3)(4) Fem. Pipe	

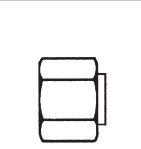
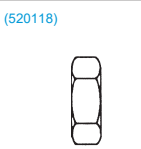
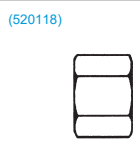
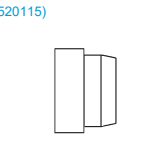
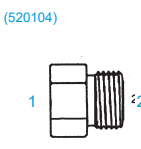
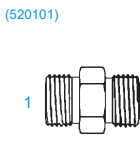
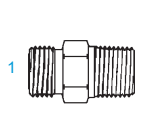
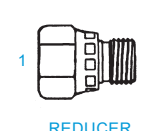
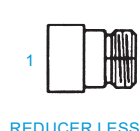
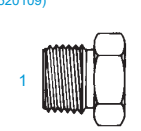
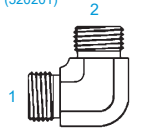
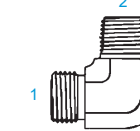
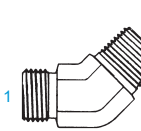
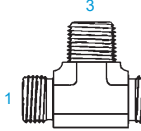
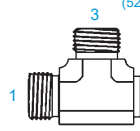
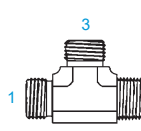
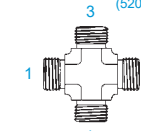
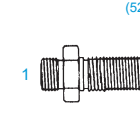
FLARELESS STEEL

 Y-FL-0304-C Cap Nut	 Y-FL-0306 Bulkhead Lock Nut	 Y-FL-0318 Flareless Nut
 Y-FL-0319 Flareless Sleeve	 Y-FL-2000 - Str. (1) Male 37° (2) Male Flareless	 Y-FL-2000-BH - Str. (1) Male 37° (2) Male Flareless Bulkhead w/ locknut
 Y-FL-2403 - Str. (1)(2) Male Flareless Union	 Y-FL-2403-LH - Str. (1)(2) Male Flareless Union Large Hex	 Y-FL-2404 - Str. (1) Male Flareless (2) Male Pipe
 Y-FL-2405 - Str. (1) Male Flareless (2) Fem. Pipe	 Y-FL-2406 - Str. Reducer (1) Fem. Standpipe (2) Male Flareless	 Y-FL-2408 - Str. (1) Male Flareless Plug
 Y-FL-2500 - 90° (1)(2) Male Flareless	 Y-FL-2501 - 90° (1) Male Flareless (2) Male Pipe	 Y-FL-2502 - 90° (1) Male Flareless (2) Fem. Pipe
 Y-FL-2503 - 45° (1) Male Flareless (2) Male Pipe	 Y-FL-2601 - Tee (1)(2) Male Flareless (3) Male Pipe	 Y-FL-2602 - Tee (1)(2) Male Flareless (3) Fem. Pipe

FLARELESS STEEL

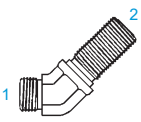
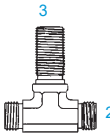
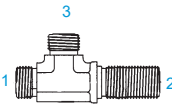
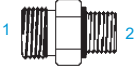
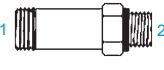
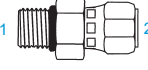
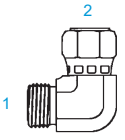
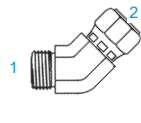
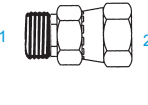
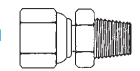
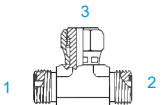
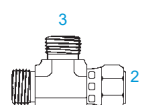
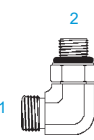
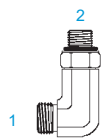
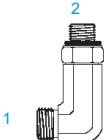
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 Y-FL-2650 - Cross (1)(2)(3)(4) Male Flareless	 Y-FL-2700-LN - Str. (1) Male Flareless (2) Male Flareless Bulkhead with Locknut	 Y-FL-6400-O - Str. (1) Male Flareless (2) Male O-Ring
 Y-FL-6500 - 90° (1) Male Flareless (2) Fem. Flareless Swivel	 Y-FL-6600 - Tee (1)(2) Male Flareless (3) Fem. Flareless Swivel	 Y-FL-6602 - Tee (1)(3) Male Flareless (2) Fem. Flareless Swivel
 Y-FL-6801-NWO - 90° (1) Male Flareless (2) Adj. O-Ring	 Y-FL-6801-L-NWO - 90° (1) Male Flareless (2) Adj. O-Ring-Long	 Y-FL-6802-NWO - 45° (1) Male Flareless (2) Adj. O-Ring
 Y-FL-6803-NWO - Tee (1)(2) Male Flareless (3) Adj. O-Ring	 Y-FL-6804-NWO - Tee (1)(3) Male Flareless (2) Adj. O-Ring	

O-RING FACE SEAL FITTINGS

 Y-OFS-0304-C Cap Nut	(520118)  Y-OFS-0306 Bulkhead Lock Nut	(520118)  Y-OFS-0318 OFS Nut
(520115)  Y-OFS-0319 OFS Braze Shoulder	(520104)  Y-OFS-0403 (1) Bore for Brazing (2) Male OFS	(520101)  Y-OFS-2403 - Str. (1)(2) Male OFS Union
 Y-OFS-2404 - Str. (1) Male OFS (2) Male Pipe	REDUCER  Y-OFS-2406 - Str. (1) Fem. OFS (2) Male OFS	REDUCER LESS NUT  Y-OFS-2407 - Str. (1) Fem. OFS (2) Male OFS
(520109)  Y-OFS-2408 (1) Male OFS Plug	(520201)  Y-OFS-2500-F - 90° (1)(2) Male OFS Union	 Y-OFS-2501-F - 90° (1) Male OFS (2) Male Pipe
 Y-OFS-2503-F - 45° (1) Male OFS (2) Male Pipe	 Y-OFS-2601-F - Tee (1)(2) Male OFS (3) Male Pipe	(520401)  Y-OFS-2603-F - Tee (1)(2)(3) Male OFS Union
 Y-OFS-2605-F - Tee (1)(3) Male OFS (2) Male Pipe	(520501)  Y-OFS-2650-F - Cross (1)(2)(3)(4) Male OFS Union	(520601)  Y-OFS-2700 - Str. (1) Male OFS (2) OFS Bulkhead

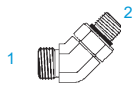
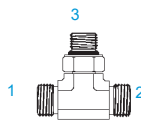
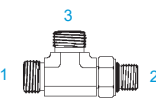
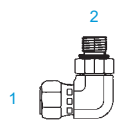
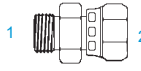
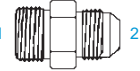
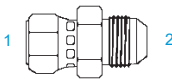
O-RING FACE SEAL FITTING

Continued

 Y-OFS-2701-F - 90° (1) Male OFS (2) OFS Bulkhead	 Y-OFS-2702-F - 45° (1) Male OFS (2) OFS Bulkhead	 Y-OFS-2703-F - Tee (1)(2) Male OFS (3) OFS Bulkhead
 Y-OFS-2704-F - Tee (1)(3) Male OFS (2) OFS Bulkhead	 Y-OFS-4000 Buna N90 Duro O-Ring	 Y-OFS-4000-V Viton O-Ring Brown
 Y-OFS-6400-O - Str. (1) Male OFS (2) Male O-Ring	 Y-OFS-6400-L-O - Str. (1) Male OFS (2) Male O-Ring-Long	 OFS-6402-O - Str. (1) Fem. OFS Swivel (2) Male O-Ring
 Y-OFS-6500-F - 90° (1) Male OFS (2) Fem. OFS Swivel	 Y-OFS-6502-F - 45° (1) Male OFS (2) Fem. OFS Swivel	 Y-OFS-6504 - Str. (1) Male OFS (2) Fem. OFS Swivel
 Y-OFS-6505 - Str. (1) Fem. OFS Swivel (2) Male Pipe	 Y-OFS-6600-F - Tee (1)(2) Male OFS (3) Fem. OFS Swivel	 Y-OFS-6602-F - Tee (1)(3) Male OFS (2) Fem. OFS Swivel
 Y-OFS-6801-F-NWO - 90° (1) Male OFS (2) Adj. O-Ring	 Y-OFS-6801-F-L-NWO - 90° (1) Male OFS (2) Adj. O-Ring-Long	 Y-OFS-6801-F-LL-NWO - 90° (1) Male OFS (2) Adj. O-Ring-Ex. Long

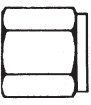
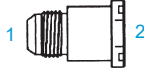
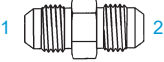
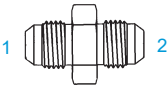
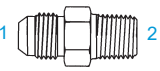
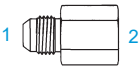
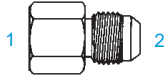
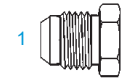
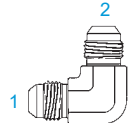
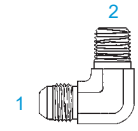
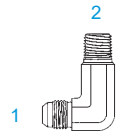
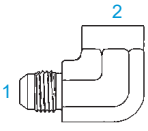
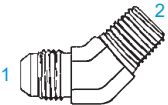
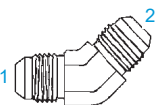
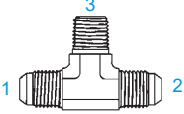
O-RING FACE SEAL FITTINGS

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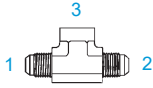
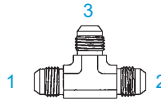
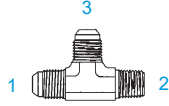
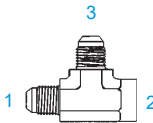
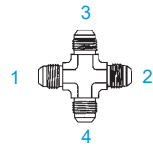
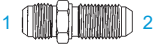
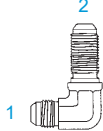
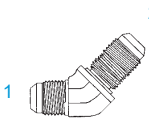
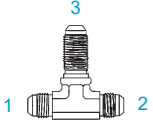
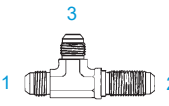
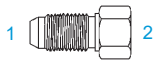
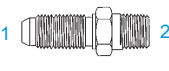
 Y-OFS-6802-F-NWO - 45° (1) Male OFS (2) Adj. O-Ring	 Y-OFS-6803-F-NWO-Tee (1)(2) Male OFS (3) Adj. O-Ring	 Y-OFS-6804-F-NWO - Tee (1)(3) Male OFS (2) Adj. O-Ring
 Y-OFS-6809-F-NWO - 90° (1) Fem. OFS Swivel (2) Adj. O-Ring	 Y-OFS-FJIC-6504 - Str. (1) Male OFS (2) Fem. 37° Swivel	 Y-OFS-MJIC-2403 - Str. (1) Male OFS (2) Male 37°
 Y-OFS-MJIC-6504 - Str. (1) Fem. OFS Swivel (2) Male 37°		

IMPORT STAINLESS STEEL TUBE FITTINGS, J.I.C. - S.A.E.

STAINLESS STEEL

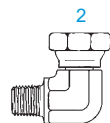
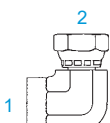
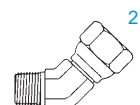
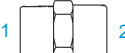
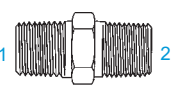
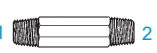
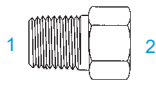
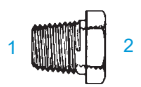
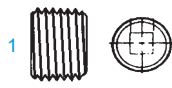
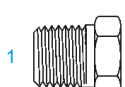
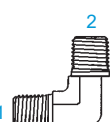
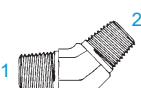
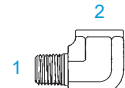
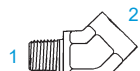
		
Y-SS-0304-C Cap Nut	Y-SS-0306 Bulkhead Lock Nut	Y-SS-0318 37° Nut
		
Y-SS-0319 37° Sleeve	Y-SS-1700-61 - Str. (1) Male 37° (2) O-Ring Flange	Y-SS-2403 - Str. (1)(2) Male 37° Union
		
Y-SS-2403-LH - Str. (1)(2) Male 37° Union Large Hex	Y-SS-2404 - Str. (1) Male 37° (2) Male Pipe	Y-SS-2405 - Str. (1) Male 37° (2) Female Pipe
		
Y-SS-2406 - Str. Reducer & Expander (1) Female 37° (2) Male 37°	Y-SS-2408 (1) Male 37° Plug	Y-SS-2500 - 90° (1)(2) Male 37°
		
Y-SS-2501 - 90° (1) Male 37° (2) Male Pipe	Y-SS-2501-L - 90° (1) Male 37° (2) Male Pipe - Long	Y-SS-2502 - 90° (1) Male 37° (2) Female Pipe
		
Y-SS-2503 - 45° (1) Male 37° (2) Male Pipe	Y-SS-2504 - 45° (1)(2) Male 37°	Y-SS-2601 - Tee (1)(2) Male 37° (3) Male Pipe

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

		
Y-SS-2602 - Tee (1)(2) Male 37° (3) Female Pipe	Y-SS-2603 - Tee (1)(2)(3) Male 37°	Y-SS-2605 - Tee (1)(3) Male 37° (2) Male Pipe
		
Y-SS-2606 - Tee (1)(3) Male 37° (2) Female Pipe	Y-SS-2650 - Cross (1)(2)(3)(4) Male 37°	Y-SS-2700 - Str. (1) Male 37° (2) Male 37° Bulkhead
		
Y-SS-2701 - 90° (1) Male 37° (2) Male 37° Bulkhead	Y-SS-2702 - 45° (1) Male 37° (2) Male 37° Bulkhead	Y-SS-2703 - Tee (1)(2) Male 37° (3) Male 37° Bulkhead
		
Y-SS-2704 - Tee (1)(3) Male 37° (2) Male 37° Bulkhead	Y-SS-2705 - Str. (1) Male 37° Bulkhead (2) Female Pipe	Y-SS-2706 - Str. (1) Male 37° Bulkhead (2) Male Pipe
Bulkheads also available with locknut. Add LN to base number "Y-SS-2700-LN"		

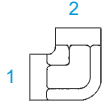
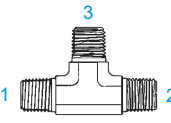
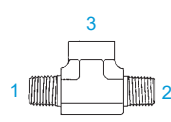
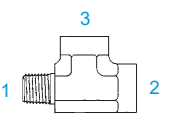
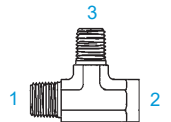
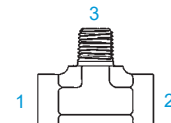
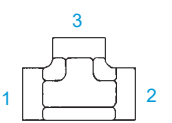
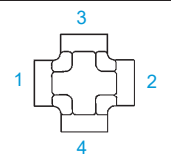
STAINLESS STEEL

PIPE FITTINGS

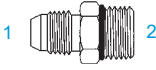
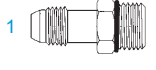
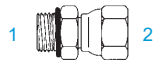
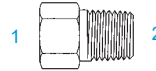
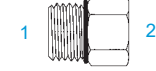
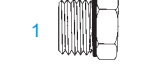
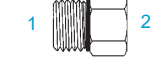
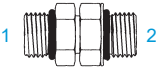
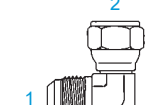
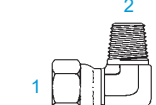
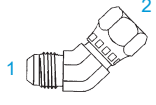
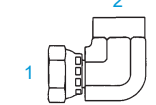
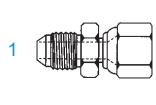
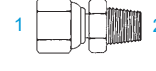
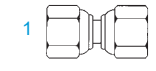
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 Y-SS-1502 - 90° (1) Female Pipe (2) Female Pipe Swivel	 Y-SS-1503 - 45° (1) Male Pipe (2) Female Pipe Swivel	 Y-SS-5000 - Str. (1)(2) Female Pipe
 Y-SS-5404 - Str. (1)(2) Male Pipe	 Y-SS-5404-N - Str. Nipple (1)(2) Male Pipe	 Y-SS-5405 - Str. Reducer & Expander (1) Male Pipe (2) Female Pipe
 Y-SS-5406 - Str. Bushing (1) Male Pipe (2) Female Pipe	 Y-SS-5406-C (1) Pipe Cap	 Y-SS-5406-HHP (1) Hollow Hex Pipe Plug
 Y-SS-5406-P Plug (1) Pipe Plug	 Y-SS-5406-SHP (1) Square Head Plug	 Y-SS-5500 - 90° (1)(2) Male Pipe
 Y-SS-5501 - 45° (1)(2) Male Pipe	 Y-SS-5502 - 90° (1) Male Pipe (2) Female Pipe	 Y-SS-5503 - 45° (1) Male Pipe (2) Female Pipe

PIPE FITTINGS

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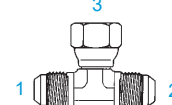
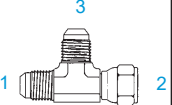
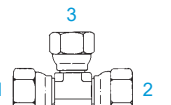
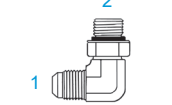
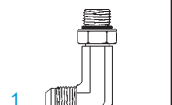
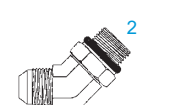
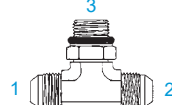
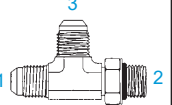
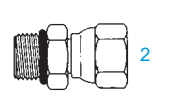
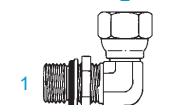
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 Y-SS-5604 - Tee (1)(2) Female Pipe (3) Male Pipe	 Y-SS-5605 - Tee (1)(2)(3) Female Pipe	 Y-SS-5652 - Cross (1)(2)(3)(4) Female Pipe

ADJUSTABLE & O-RING FITTINGS

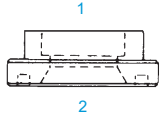
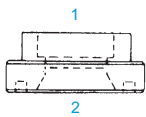
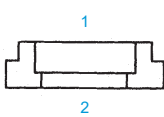
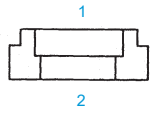
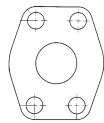
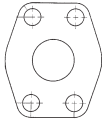
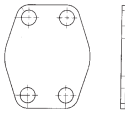
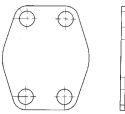
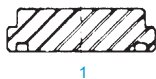
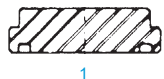
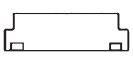
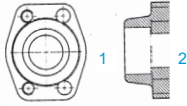
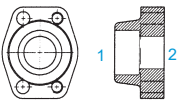
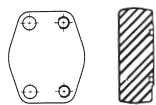
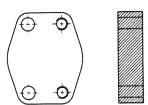
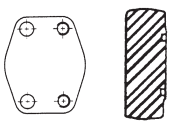
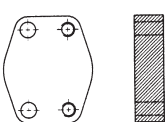
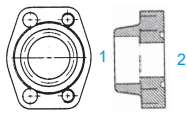
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 Y-SS-6402-O - Str. (1) Male O-Ring (2) 37° Female Swivel	 Y-SS-6404 - Str. (1) Female O-Ring (2) Male Pipe	 Y-SS-6405-O - Str. (1) Male O-Ring (2) Female Pipe
 Y-SS-6408-O - Str. (1) Male O-Ring Plug	 Y-SS-6408-HHP-O Hollow Hex O-Ring Plug	 Y-SS-6410-O - Str. (1) Male O-Ring (2) Female O-Ring
 Y-SS-6464-NWO - Str. (1) Male O-Ring (2) Adj. O-Ring	 Y-SS-6500 - 90° (1) Male 37° (2) 37° Female Swivel	 Y-SS-6501 - 90° (1) 37° Female Swivel (2) Male Pipe
 Y-SS-6502 - 45° (1) Male 37° (2) 37° Female Swivel	 Y-SS-6503 - 90° (1) 37° Female Swivel (2) Female Pipe	 Y-SS-6504 - Str. (1) Male 37° (2) 37° Female Swivel
 Y-SS-6505 - Str. (1) 37° Female Swivel (2) Male Pipe	 Y-SS-6506 - Str. (1) 37° Female Swivel (2) Female Pipe	 Y-SS-6565 - Str. (1)(2) 37° Female Swivel

ADJUSTABLE & O-RING FITTINGS

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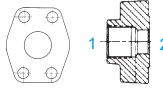
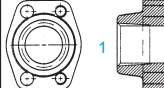
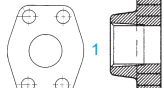
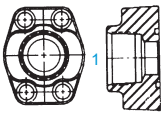
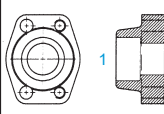
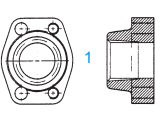
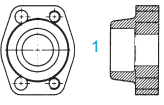
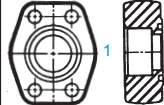
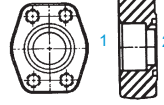
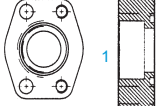
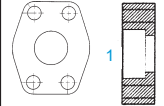
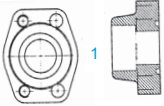
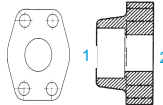
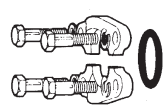
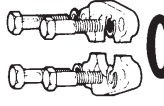
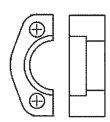
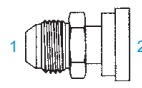
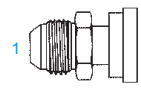
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 Y-SS-6801-NWO - 90° (1) Male 37° (2) Adj. O-Ring	 Y-SS-6801-L-NWO - 90° (1) Male 37° (2) Adj. O-Ring - Long	 Y-SS-6802-NWO - 45° (1) Male 37° (2) Adj. O-Ring
 Y-SS-6803-NWO - Tee (1)(2) Male 37° (3) Adj. O-Ring	 Y-SS-6804-NWO - Tee (1)(3) Male 37° (2) Adj. O-Ring	 Y-SS-6900-O - Str. (1) Male O-Ring (2) Female Pipe Swivel
 Y-SS-6901-NWO - 90° (1) Adj. O-Ring (2) Female Pipe Swivel		

FLANGE ADAPTERS

 Y-SF-3300-61 (1)(2) Braze Flange Code 61	 Y-SF-3300-62 (1)(2) Braze Flange Code 62	 Y-SF-3301-61 (1) Braze (2) Flat Face Flange Code 61
 Y-SF-3301-62 (1) Braze (2) Flat Face Flange Code 62	 Y-SF-61-CP Connector Plate Code 61	 Y-SF-62-CP Connector Plate Code 62
 Y-SF-61-SP Shipping Plate Code 61	 Y-SF-62-SP Shipping Plate Code 62	 Y-SF-P61 (1) Flange Plug
 Y-SF-P62 (1) Flange Plug	 Y-SF-PCAT (1) Caterpillar Flange Plug	 Y-SF-W31K (1) Deep Socket Weld Pipe (2) Flange - with O-Ring Kit Drilled Holes Code 61
 Y-SF-W3 (1) Deep Socket Weld Pipe (2) Flange - Tapped Holes Companion to Y-SF-W31K Code 61	 Y-SF-W36K Blanking Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 61	 Y-SF-W37 Blanking Flange - Tapped Holes Flat Face Code 61
 Y-SF-W38K Blanking Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 62	 Y-SF-W39 Blanking Flange - Tapped Holes Flat Face Code 62	 Y-SF-W43K (1) Fem. Pipe (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 61

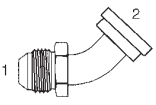
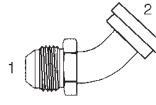
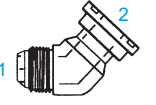
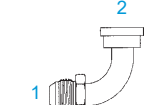
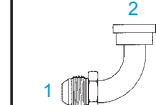
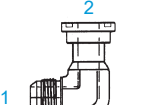
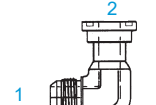
FLANGE ADAPTERS

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 Y-SF-W104 (1) Fem. NPTF Thread (2) Flange - Tapped Holes Companion to Y-SF-W43K Code 61	 Y-SF-W44K (1) Fem. Pipe (2) Flange - w/ O-ring Groove Drilled Holes - O-Ring Kit Code 62	 Y-SF-W45 (1) Fem. Pipe (2) Flange - Tapped Holes Companion to Y-SF-W44K Code 62
 Y-SF-W46K (1) SAE Internal Straight Thread (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 61	 Y-SF-W106 (1) SAE Internal Straight Thread (2) Flange - Tapped Holes Companion to Y-SF-W46K Code 61	 Y-SF-W48K (1) SAE Internal Straight Thread (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 62
 Y-SF-W49 (1) SAE Internal Straight Thread (2) Flange - Tapped Holes Companion to Y-SF-W48K Code 62	 Y-SF-W4K (1) Flat Socket Weld Pipe (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 61	 Y-SF-W61 (1) Flat Socket Weld Pipe (2) Flange - Tapped Holes Companion to Y-SF-W4K Code 61
 Y-SF-W6K (1) Flat Socket Weld Tube (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 61	 Y-SF-W62 (1) Flat Socket Weld Tube (2) Flange - Tapped Holes Companion to Y-SF-W6K Code 61	 Y-SF-W81K (1) Deep Socket Weld Pipe (2) Flange - with O-ring Groove Drilled Holes - O-Ring Kit Code 62
 Y-SF-W80 (1) Deep Socket Weld Pipe (2) Flange - Tapped Holes Companion to Y-SF-W81K Code 62	 Y-SFK-61 Split Flange Kit Code 61	 Y-SFK-62 Split Flange Kit Code 62
 Y-SFK-62-CAT Caterpillar Flange Kit Comes with bolts and O-Ring Code 62	 Y-1700-61 - Str. (1) Male Tube (2) O-Ring Flange Code 61	 Y-1700-62 - Str. (1) Male Tube (2) O-Ring Flange Code 62

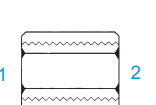
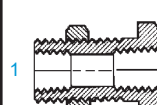
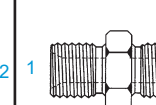
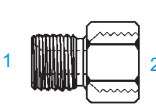
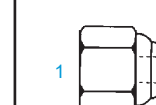
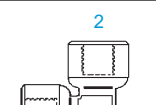
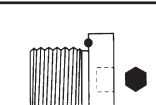
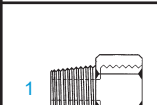
FLANGE ADAPTERS

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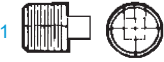
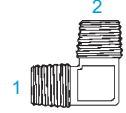
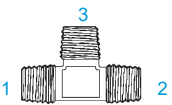
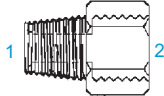
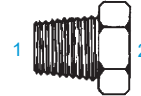
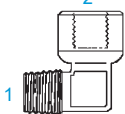
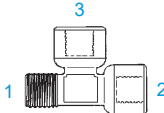
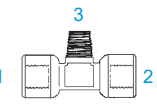
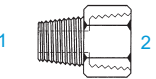
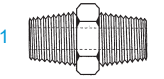
 Y-1703-61 - 45° Bent Tube (1) Male 37° (2) O-Ring Flange Code 61	 Y-1703-62 - 45° Bent Tube (1) Male 37° (2) O-Ring Flange Code 62	 Y-1703-F-61 - 45° Forged (1) Male 37° (2) O-Ring Flange Code 61
 Y-1703-F-62 - 45° Forged (1) Male 37° (2) O-Ring Flange Code 62	 Y-1704-61 - 90° Bent Tube (1) Male 37° (2) O-Ring Flange Code 61	 Y-1704-62 - 90° Bent Tube (1) Male 37° (2) O-Ring Flange Code 62
 Y-1704-F-61 - 90° Forged (1) Male 37° (2) O-Ring Flange Code 61	 Y-1704-F-62 - 90° Forged (1) Male 37° (2) O-Ring Flange Code 62	

BRASS FITTINGS & ACCESSORIES

BRASS BRITISH PARALLEL PIPE FITTINGS

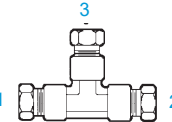
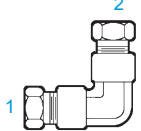
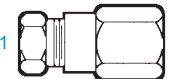
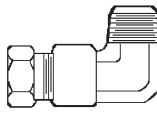
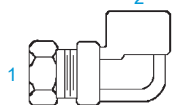
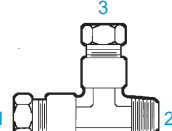
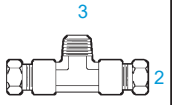
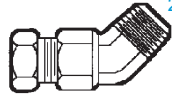
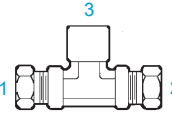
 B-BPP-5000 - Str. (1)(2) Fem. BPP	 B-BPP-5000-BH - Str. (1)(2) Fem. BPP w/ Lock Nut	 B-BPP-5404 - Str. (1)(2) Male BPP
 B-BPP-5405 - Str. (1) Male BPP (2) Fem. BPP	 B-BPP-5406 - Bushing (1) Male BPP (2) Fem. BPP	 B-BPP-5406-C (1) BPP Cap
 B-BPP-5504 - 90° (1)(2) Fem. BPP	 B-BPP-5605 - Tee (1)(2)(3) Fem. BPP	 B-BPP-5652 - Cross (1)(2)(3)(4) Fem. BPP
 B-BPP-6408-HHP-EO (1) BPP Hollow Hex Plug	 B-BPP-MP-5405 - Str. (1) Male NPT Pipe (2) Fem. BPP	

BRASS BRITISH STANDARD TAPER FITTINGS

 B-BST-5404 - Str. (1)(2) Male BST	 B-BST-5406-HHP (1) BST Hollow Hex Plug	 B-BST-5406-P (1) BST Plug
 B-BST-5406-SHP (1) BST Square Head Plug	 B-BST-5500-90° (1)(2) Male BST	 B-BST-5600 - Tee (1)(2)(3) Male BST
 B-BST-FBPP-5405 - Str. (1) Male BST (2) Fem. BPP	 B-BST-FBPP-5406 - Str. Bushing (1) Male BST (2) Fem. BPP	 B-BST-FBPP-5502-90° (1) Male BST (2) Fem. BPP
 B-BST-FBPP-5602 - Tee (1) Male BPP (2)(3) Fem. BPP	 B-BST-FBPP-5604-Tee (1)(2) Fem. BPP (3) Male BST	 B-BST-FP-5405 - Str. (1) Male BST (2) Fem. Pipe
 B-BST-MP-5404 -Str. (1) Male BST (2) Male Pipe		

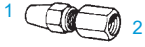
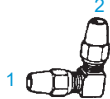
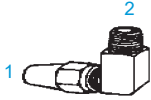
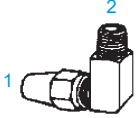
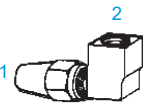
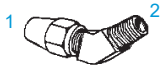
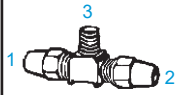
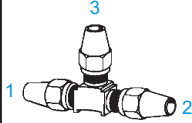
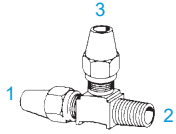
BRASS FITTINGS

BRASS IMPERIAL HIGH DUTY FITTINGS

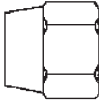
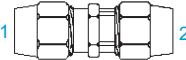
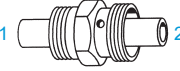
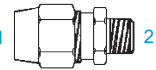
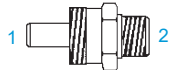
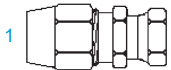
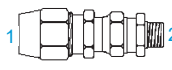
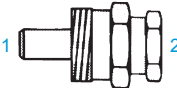
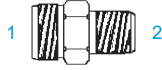
 B-IE-72-LB Bulkhead Union (1)(2) Tube	 B-IE-81-LB Nut	 B-IE-82-LB - Union (1)(2) Tube
 B-IE-84-LB - Union Tee (1)(2)(3) Tube	 B-IE-85-LB - Union Elbow (1)(2) Tube	 B-IE-86-LB - Str. (1) Tube (2) Fem. Pipe
 B-IE-88-LB - Connector (1) Tube (2) Male Pipe	 B-IE-89-LB - 90° (1) Tube (2) Male Pipe	 B-IE-90-LB - 90° (1) Tube (2) Fem. Pipe
 B-IE-91-LB - Tee (1)(3) Tube (2) Male Pipe	 B-IE-92-LB - Tee (1)(2) Tube (3) Male Pipe	 B-IE-94-LB - 45° (1) Tube (2) Male Pipe
 B-IE-95-LB - Tee (1)(2) Tube (3) Fem. Pipe	 B-IE-99-LB (1) Plug	

BRASS FITTINGS

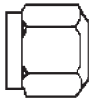
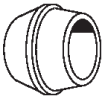
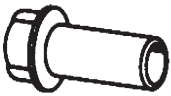
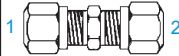
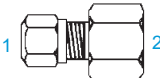
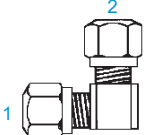
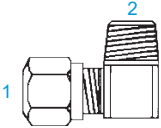
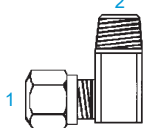
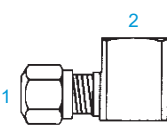
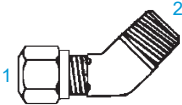
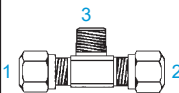
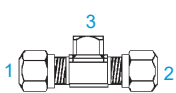
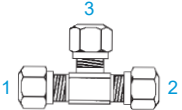
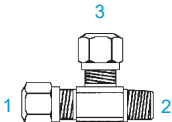
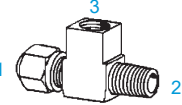
BRASS AIR BRAKE - COPPER TUBING

		
BAB-C-0318 - Nut	BAB-C-0319 - Sleeve	BAB-C-2403 - Str. (1)(2) Air Brake Union
		
BAB-C-2404 - Str (1) Air Brake (2) Male Pipe	BAB-C-2405 - Str. (1) Air Brake (2) Fem. Pipe	BAB-C-2500 - 90° (1)(2) Air Brake
		
BAB-C-2501 - 90° (1) Air Brake (3) Male Pipe	BAB-C-2501-L - 90° (1) Air Brake (2) Male Pipe - Long	BAB-C-2502 - 90° (1) Air Brake (2) Fem. Pipe
		
BAB-C-2503 - 45° (1) Air Brake (2) Male Pipe	BAB-C-2601 - Tee (1)(2) Air Brake (3) Male Pipe	BAB-C-2603 - Tee (1)(2)(3) Air Brake
		
BAB-C-2605 - Tee (1)(3) Air Brake (2) Male Pipe	BAB-C-2700-LN - Str. (1) Air Brake (2) Bulkhead Air Brake	

BRASS AIR BRAKE - HOSE END

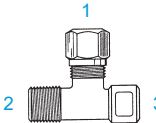
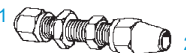
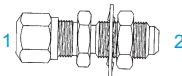
		
BAB-HE-0318 - Nut	BAB-HE-0319 - Sleeve	BAB-HE-2403 - Str. (1) (2) Hose End Union
		
BAB-HE-2403-BO - Str. Body Only (1)(2) Hose End Union	BAB-HE-2404 - Str. (1) Hose End (2) Male Pipe	BAB-HE-2404-BO - Str. (1) Hose End (2) Male Pipe
		
BAB-HE-2405 - Str. (1) Hose End (2) Fem. Air Brake Swivel	BAB-HE-2405-A - Str. (1) Hose End (2) Fem. Air Brake Swivel w/ Adapter	BAB-HE-2405-BO - Str. Body Only (1) Hose End (2) Fem. Air Brake Swivel
		
BAB-HE-2411 - Str. (1) Male Air Brake (2) Male Pipe	BAB-HE-SG-0318 - Nut for Spring Guard	BAB-HE-SG-0318A Nut w/ Spring Guard
		
BAB-HE-SG - Spring Guard	BAB-HE-SG-2404 - Str. (1) Hose End w/Spring Guard (2) Male Pipe	

BRASS AIR BRAKE - NYLON TUBING

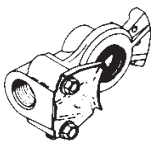
		
BAB-N-0318 - Nut	BAB-N-0319 - Sleeve	BAB-N-0363 - Insert
		
BAB-N-0370 Gauge Ring	BAB-N-2403 - Str. (1) (2) Air Brake Union	BAB-N-2404 - Str. (1) Air Brake (2) Male Pipe
		
BAB-N-2405 - Str. (1) Air Brake (2) Fem. Pipe	BAB-N-2405-BH - Str. (1) Air Brake (2) Bulkhead (3) Fem. Pipe	BAB-N-2500 - 90° (1)(2) Air Brake
		
BAB-N-2501 - 90° (1) Air Brake (2) Male Pipe	BAB-N-2501-L - 90° (1) Air Brake (2) Male Pipe Long	BAB-N-2502 - 90° (1) Air Brake (2) Fem. Pipe
		
BAB-N-2503 - 45° (1) Air Brake (2) Male Pipe	BAB-N-2601 - Tee (1)(2) Air Brake (3) Male Pipe	BAB-N-2602 - Tee (1)(2) Air Brake (3) Fem. Pipe
		
BAB-N-2603 - Tee (1)(2)(3) Air Brake Union	BAB-N-2605 - Tee (1)(3) Air Brake (2) Male Pipe	BAB-N-2611 - Tee (1) Air Brake (2) Male Pipe (3) Fem. Pipe

BRASS AIR BRAKE - NYLON TUBING

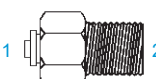
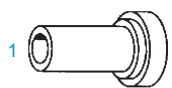
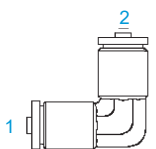
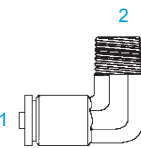
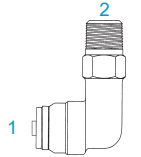
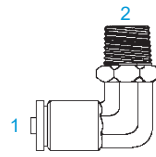
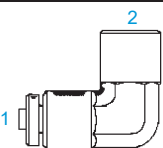
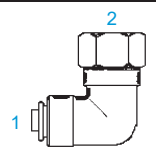
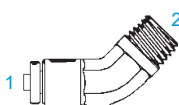
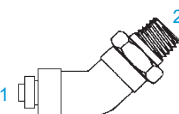
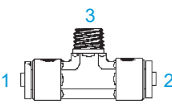
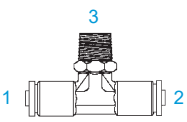
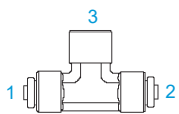
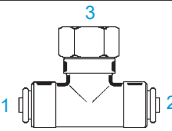
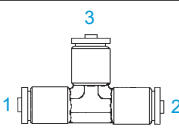
Continued

		
BAB-N-2613 (1) Air Brake (2) Male Pipe (3) Fem. Pipe	BAB-N-2700-LN - Str. (1) Air Brake (2) Bulkhead Air Brake	BAB-N-C-2700-LN - Str. (1) Air Brake (Nylon) (2) Air Brake (Copper)
		
BAB-N-BF-2700-LN -Str. (1) Air Brake (2) Bulkhead Male 45°		

BRASS AIR BRAKE ACCESSORIES

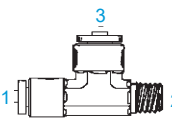
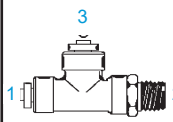
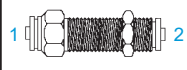
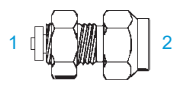
		
BAB-GLADHAND COUPLER Universal Meets MS35746-1	BAB-GLADHAND SEAL Universal	

BRASS PUSH CONNECT - DOT APPROVED

 BPC-DOT-2161 - Encapsulated Cartridge (1) Tube	 BPC-DOT-2403 - Union (1)(2) Union	 BPC-DOT-2404 - Str. (1) Tube (2) Male Pipe
 BPC-DOT-2405 - Str. (1) Tube (2) Fem. Pipe	 BPC-DOT-2408 - Str. (1) Plug	 BPC-DOT-2500 - 90° (1)(2) Tube Union
 BPC-DOT-2501 - 90° (1) Tube (2) Male Pipe	 BPC-DOT-2501-L - 90° (1) Tube (2) Male Pipe - Long	 BPC-DOT-2501-S - 90° (1) Tube (2) Male Pipe Swivel
 BPC-DOT-2502 - 90° (1) Tube (2) Fem. Pipe	 BPC-DOT-2502-S - 90° (1) Tube (2) Fem. Pipe Swivel	 BPC-DOT-2503 - 45° (1) Male Tube (2) Male Pipe
 BPC-DOT-2503-S - 45° (1) Male Tube (2) Male Pipe Swivel	 BPC-DOT-2601 - Tee (1)(2) Tube (3) Male Pipe	 BPC-DOT-2601-S - Tee (1)(2) Tube (3) Male Pipe Swivel
 BPC-DOT-2602 - Tee (1)(2) Tube (3) Fem. Pipe	 BPC-DOT-2602-S - Tee (1)(2) Tube (3) Fem. Pipe Swivel	 BPC-DOT-2603 - Tee (1)(2)(3) Tube Union

BRASS FITTINGS

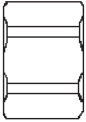
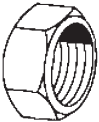
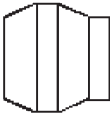
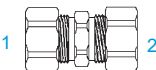
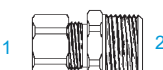
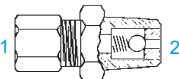
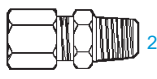
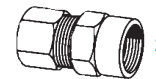
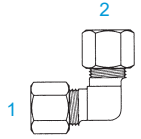
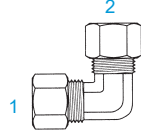
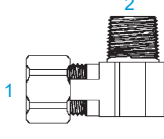
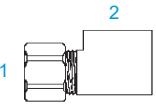
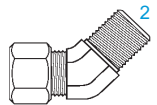
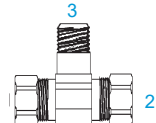
BRASS PUSH CONNECT - DOT APPROVED Continued

 BPC-DOT-2605 - Tee (1)(3) Tube (3) Male Pipe	 BPC-DOT-2605-S - Tee (1)(3) Tube (3) Male Pipe Swivel	 BPC-DOT-2700-LN - Str. (1) Tube (2) Bulkhead Tube
 BPC-DOT-2705-LN - Str. (1) Bulkhead Tube (2) Fem. Pipe		

***Note:** Any Brass Push Connect - DOT fitting less than 1/4" (* designation) is designed for use in pressure protected air accessory lines that are isolated from the air brake system.

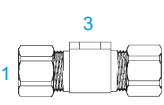
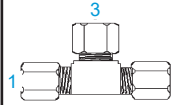
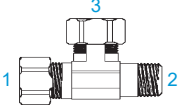
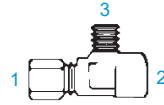
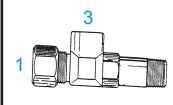
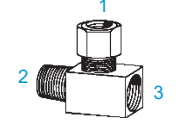
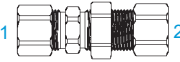
BRASS FITTINGS

BRASS COMPRESSION

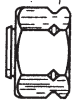
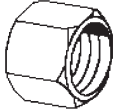
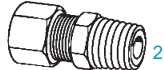
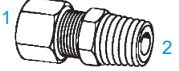
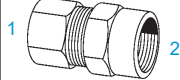
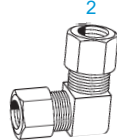
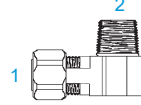
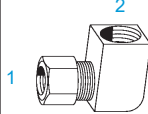
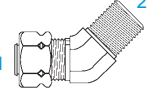
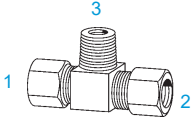
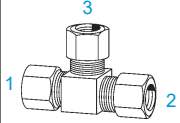
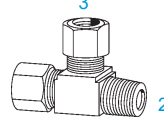
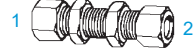
		
BC-0304 - C Cap	BC-0306 Bulkhead Lock Nut	BC-0318 Compression Nut
		
BC-0319 Compression Sleeve	BC-0319-DELRIN Compression Sleeve	BC-0320 Compression Plug
		
BC-0363 Brass Insert	BC-2403 - Str. (1)(2) Compression Union	BC-2404 - Str. (1) Compression (2) Male Pipe
		
BC-2404-CV - Str. (1) Compression (2) Male Pipe Check Valve	BC-2404-TC - Str. (1) Compression (2) Male Pipe-Drilled thru Tank Connector	BC-2405 - Str. (1) Compression (2) Fern. Pipe
		
BC-2500 - 90° (1)(2) Compression Union	BC-2500-F - 90° Forged (1)(2) Compression Union	BC-2501 - 90° (1) Compression (2) Male Pipe
		
BC-2502 - 90° (1) Compression (2) Fern. Pipe	BC-2503 - 45° (1) Compression (2) Male Pipe	BC-2601 - Tee (1)(2) Compression (3) Male Pipe

BRASS COMPRESSION

Continued

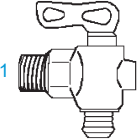
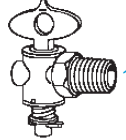
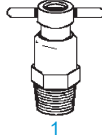
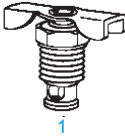
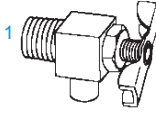
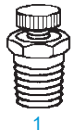
		
BC-2602 - Tee (1)(2) Male Compression (3) Fern. Pipe	BC-2603 - Tee (1)(2)(3) Compression	BC-2605 - Tee (1)(3) Compression (2) Male Pipe
		
BC-2608- Tee (1) Compression (2) Fern. Pipe (3) Male Pipe	BC-2611 (1) Compression (2) Male Pipe (3) Fern. Pipe	BC-2613 - Tee (1) Compression (2) Male Pipe (3) Fern. Pipe
		
BC-2700-LN - Str. (1) Compression (2) Bulkhead Compression		

BRASS COMPRESSION SELF ALIGN

 BC-SA-0304 - C Cap Nut	 BC-SA-0318 Self Align Nut	 BC-SA-0319 Self Align Sleeve
 BC-SA-0320 - Self Align Captive Nut and Sleeve	 BC-SA-2403 - Str. (1)(2) Compression Union	 BC-SA-2404 - Str. (1) Compression (2) Male Pipe
 BC-SA-2404-CV - Str. (1) Compression (2) Male Check Valve	 BC-SA-2405 - Str. (1) Compression (2) Fem. Pipe	 BC-SA-2500 - 90° (1)(2) Compression Union
 BC-SA-2501 - 90° (1) Compression (2) Male Pipe	 BC-SA-2502 - 90° (1) Compression (2) Fem. Pipe	 BC-SA-2503 - 45° (1) Compression (2) Male Pipe
 BC-SA-2601- Tee (1)(2) Compression (3) Male Pipe	 BC-SA-2603 - Tee (1)(2)(3) Compression Union	 BC-SA-2605 - Tee (1)(3) Compression (2) Male Pipe
 BC-SA-2700-LN - Str. (1) Compression (2) Bulkhead Compression		

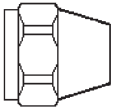
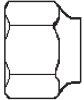
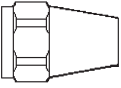
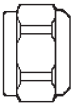
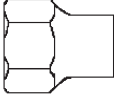
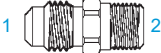
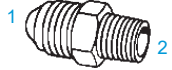
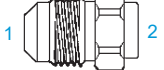
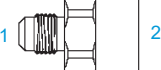
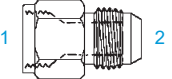
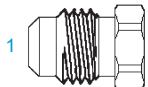
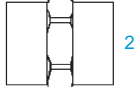
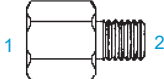
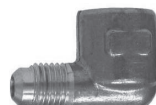
BRASS FITTINGS

BRASS DRAIN COCKS

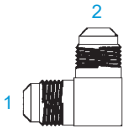
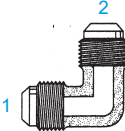
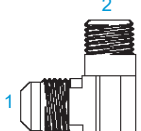
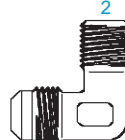
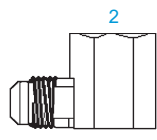
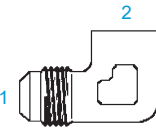
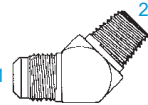
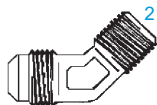
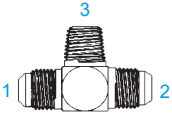
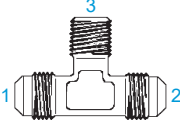
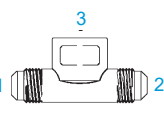
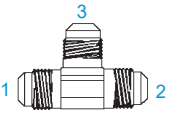
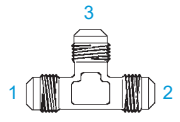
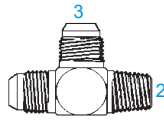
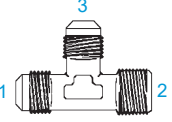
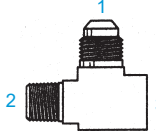
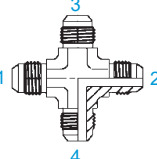
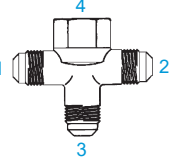
 BDC-601 - Str. (30 PSI) (1) Male Pipe	 BDC-601-HP - Str. (150 PSI) (1) Male Pipe	 BDC-603 - Internal Seat (1) Male Pipe
 BDC-604 - External Seat (1) Male Pipe	 BDC-606 - External Seat (1) Male Pipe	 BDC-607 - Bib Drain (1) Male Pipe
 BDC-612 - Air Vent (1) Male Pipe		

BRASS FITTINGS

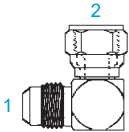
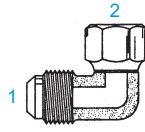
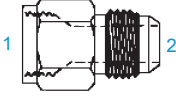
BRASS 45° FLARE

		
BF-0302 Short Nut	BF-0302-F Forged Short Nut	BF-0304 Standard Nut
		
BF-0304-C Cap Nut	BF-0304-F Forged Standard Nut	BF-0463 Copper Gasket
		
BF-0464 Copper Bonnet	BF-2403 - Str. (1)(2) Male 45° Union	BF-2404 - Str. (1) Male 45° (2) Male Pipe
		
BF-2404-CV - Ball Check Valve (1) Male 45° (2) Male Pipe	BF-2404-SW -Sweat On (1) Male 45° (2) Sweat On	BF-2405 - Str. (1) Male 45° (2) Fem. Pipe
		
BF-2406 - Str. Reducer & Expander (1) Fem. 45° (2) Male 45°	BF-2408 - Str. (1) Male 45° Plug	BF-2424 - Str. (1)(2) Fem. 45° Union
		
BF-2424-S - Str. (1)(2) Fem. 45° Swivel Union	BF-2465 - Str. (1) Fem. 45° (2) Male Pipe	BF-2496 - 90° (1) Male 45° (2) Fem. 45°

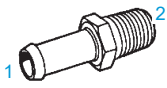
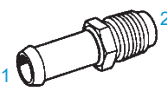
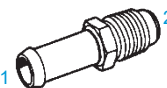
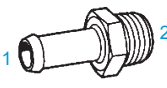
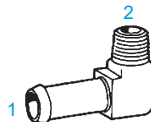
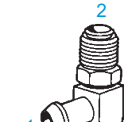
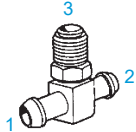
BRASS 45° FLARE

		
BF-2500 - 90° (1)(2) Male 45° Union	BF-2500-F - 90° (Forged) (1)(2) Male 45° Union	BF-2501 - 90° (1) Male 45° (2) Male Pipe
		
BF-2501-F - 90° (Forged) (1) Male 45° (2) Male Pipe	BF-2502 - 90° (1) Male 45° (2) Fem. Pipe	BF-2502-F - 90° (Forged) (1) Male 45° (2) Fem. Pipe
		
BF-2503 - 45° (1) Male 45° (2) Male Pipe	BF-2503-F - 45° (Forged) (1) Male 45° (2) Male Pipe	BF-2601 - Tee (1)(2) Male 45° (3) Male Pipe
		
BF-2601-F - Tee (Forged) (1)(2) Male 45° (3) Male Pipe	BF-2602-F - Tee (Forged) (1)(2) Male 45° (3) Fem. Pipe	BF-2603 - Tee (1)(2)(3) Male 45° Union
		
BF-2603-F - Tee (Forged) (1)(2)(3) Male 45° Union	BF-2605 - Tee (1)(3) Male 45° (2) Male Pipe	BF-2605-F - Tee (Forged) (1)(3) Male 45° (2) Male Pipe
		
BF-2613 - Tee (1) Male 45° (2) Male Pipe (3) Fem. Pipe	BF-2650-F - Cross (Forged) (1)(2)(3)(4) Male 45°	BF-2652-F - Cross (Forged) (1)(2)(3) Male 45° (4) Fem. Pipe

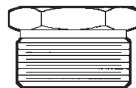
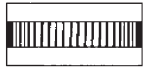
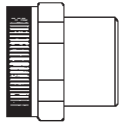
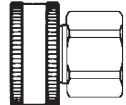
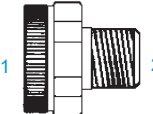
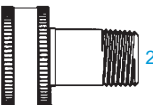
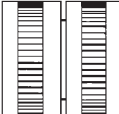
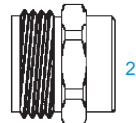
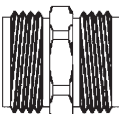
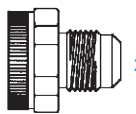
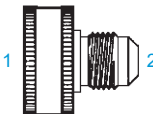
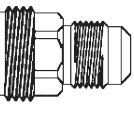
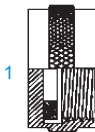
BRASS 45° FLARE, Continued

 BF-6500 - 90° (1) Male 45° (2) 45° Fem. Swivel	 BF-6500-F - 90° (Forged) (1) Male 45° (2) 45° Fem. Swivel	 BF-MJ-2406 - Str. (1) Fem. 45° SAE (5/8-18) (2) Male 37° (9/16-18)
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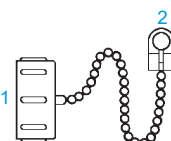
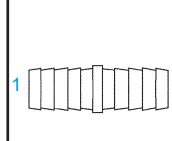
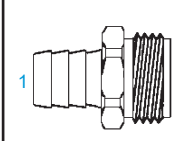
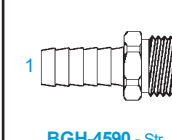
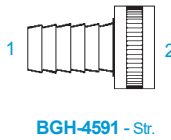
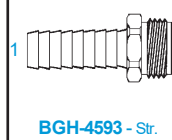
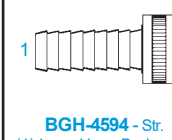
BRASS FUEL LINE

 BFL-800 - Str. (1) Hose Bead (2) Male Pipe	 BFL-801 - Str. (1) Hose Bead (2) Male Inv. Flare	 BFL-802 - Str. (1) Hose Bead (2) Male 45° Flare
 BFL-803 - Str. (1) Hose Bead (2) Straight Thread w/Gasket	 BFL-804 - 90° (1) Hose Bead (2) Male Pipe	 BFL-805 - 90° (1) Hose Bead (2) Male Inv. Flare Swivel
 BFL-806 - Tee (1)(2) Hose Barb (3) Male Inv. Flare Swivel		

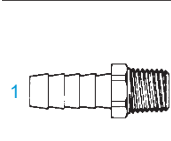
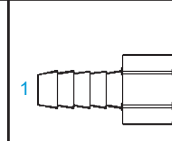
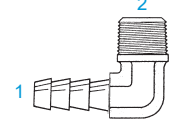
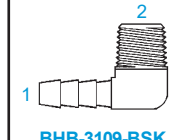
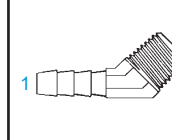
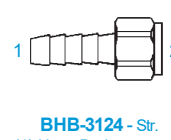
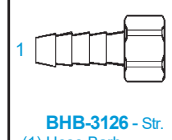
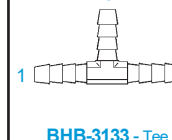
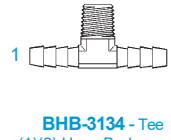
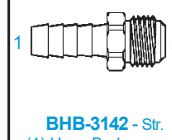
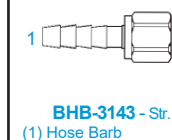
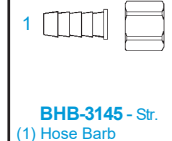
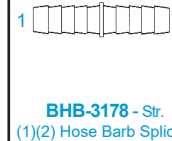
BRASS GARDEN HOSE

 BGH-4106-P - Str. (1) Male Garden Hose Plug	 BGH-4166 Garden Hose Washer	 BGH-4318-H Garden Hose Hex Nut
 BGH-4318-K Garden Hose Nut-Knurled	 BGH-4501 - Str. (1) Fem. Garden Hose Rigid (2) Fem. Pipe	 BGH-4502 - Str. (1) Fem. Garden Hose Swivel (2) Fem. Pipe
 BGH-4503 - Str. (1) Fem. Garden Hose Rigid (2) Male Pipe	 BGH-4503-L - Str. (1) Fem. Garden Hose Rigid (2) Male Pipe	 BGH-4504 - Str. (1) Fem. Garden Hose Swivel (2) Male Pipe
 BGH-4505 - Str. (1)(2) Fem. Garden Hose Rigid	 BGH-4506 - Str. (1)(2) Fem. Garden Hose Swivel	 BGH-4507 - Str. (1) Male Garden Hose (2) Fem. Pipe
 BGH-4508 - Str. (1) Male Garden Hose (2) Male Pipe	 BGH-4509 - Str. (1)(2) Male Garden Hose Union	 BGH-4510 - Str. (1) Fem. Garden Hose Rigid (2) Male 45° Flare
 BGH-4511 - Str. (1) Fem. Garden Hose Swivel (2) Male 45° Flare	 BGH-4512 - Str. (1) Male Garden Hose (2) Male 45° Flare	 BGH-4513 - Str. (1) Fem. Garden Hose Cap

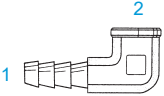
BRASS GARDEN HOSE, Continued

 BGH-4514 (1) Garden Hose Cap (2) 8 Inch Chain	 BGH-4578 (1)(2) Garden Hose Mender	 BGH-4585 - Str. (1) Short Hose Barb (2) Male Garden Hose
 BGH-4586 - Str. (1) Short Hose Barb (2) Fem. Garden Hose Swivel-Round Nut	 BGH-4588 - Str. (1) Short Hose Barb (2) Fem. Garden Hose Swivel-Hex Nut	 BGH-4590 - Str. (1) Hose Barb (2) Male Garden Hose
 BGH-4591 - Str. (1) Hose Barb (2) Fem. Garden Hose Swivel	 BGH-4593 - Str. (1) Long Hose Barb (2) Male Garden Hose	 BGH-4594 - Str. (1) Long Hose Barb (2) Fem. Garden Hose Swivel

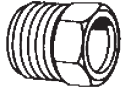
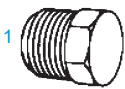
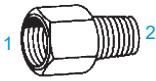
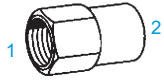
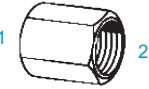
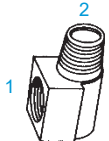
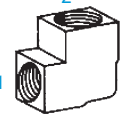
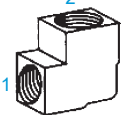
BRASS HOSE BARB

 BHB-3102 - Str. (1) Hose Barb (2) Male Pipe	 BHB-3103 - Str. (1) Hose Barb (2) Male Pipe Swivel	 BHB-3104 - Str. (1) Hose Barb (2) Fem. Pipe Rigid
 BHB-3109 - 90° (1) Hose Barb (2) Male Pipe	 BHB-3109-BSK Bar Stock (1) Hose Barb (2) Male Pipe	 BHB-3110 - 45° (1) Hose Barb (2) Male Pipe
 BHB-3124 - Str. (1) Hose Barb (2) Fem. Pipe Swivel Ball Seat	 BHB-3126 - Str. (1) Hose Barb (2) Fem. Pipe Swivel Gasket Seat	 BHB-3133 - Tee (1)(2)(3) Hose Barb
 BHB-3134 - Tee (1)(2) Hose Barb (3) Male Pipe	 BHB-3142 - Str. (1) Hose Barb (2) Male 45° Flare	 BHB-3143 - Str. (1) Hose Barb (2) Fem. Dual Seat Swivel (45°/37°)
 BHB-3144 - Str. (1) Hose Barb (2) Fem. 45° Swivel	 BHB-3145 - Str. (1) Hose Barb (2) Fem. 37° Swivel	 BHB-3146 - Str. (1) Hose Barb (2) Male 37° Flare
 BHB-3177 - 90° (1)(2) Hose Barb	 BHB-3178 - Str. (1)(2) Hose Barb Splicer	 BHB-3193 - 90° (1) Hose Barb (2) Male Pipe Swivel

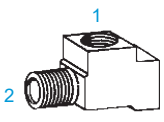
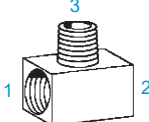
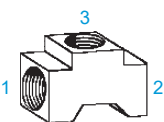
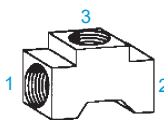
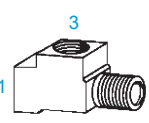
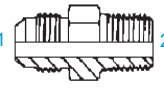
BRASS HOSE BARB, Continued

 BHB-3194 - 90° (1) Hose Barb (2) Female Pipe	 BHB-3290 - Str. (1) Hose Barb (2) Male Inverted Flare Swivel	
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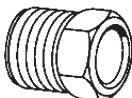
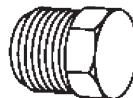
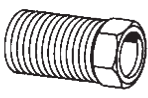
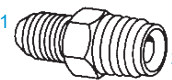
BRASS INVERTED FLARE

 BIF-100 - Str. Brass Inv. Flare Nut	 BIF-131 - Str. (1) Brass Inv. Flare Plug	 BIF-202 - Str. (1) Fem. Inv. Flare (2) Male Pipe
 BIF-252 - Str. (1) Fem. Inv. Flare (2) Fem. Pipe	 BIF-302 - Str. (1)(2) Fem. Inv. Flare Union	 BIF-352 - 45° (1) Fem. Inv. Flare (2) Male Pipe
 BIF-402 - 90° (1) Fem. Inv. Flare (2) Male Pipe	 BIF-452 - 90° (1) Fem. Inv. Flare (2) Fem. Pipe	 BIF-502 - 90° (1)(2) Fem. Inv. Flare Union

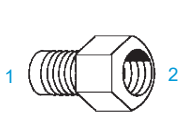
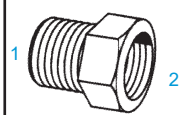
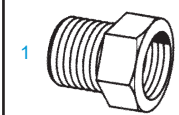
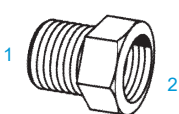
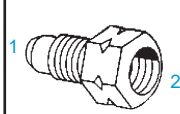
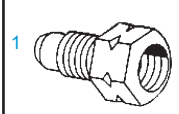
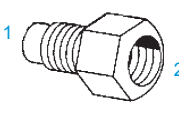
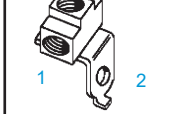
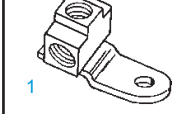
BRASS INVERTED FLARE Continued

 BIF-552 - Tee (1) Fem. Inv. Flare (2) Male Pipe (3) Fem. Pipe	 BIF-602 - Tee (1)(2) Fem. Inv. Flare (3) Male Pipe	 BIF-652 - Tee (1)(2) Fem. Inv. Flare (3) Fem. Pipe
 BIF-702 - Tee (1)(2)(3) Fem. Inv. Flare Union	 BIF-752 - Tee (1)(3) Fem. Inv. Flare (2) Male Pipe	 BIF-2404 - Str. (1) Male 45° Flare (2) Male Inv. Flare

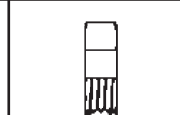
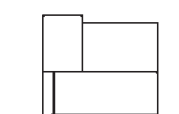
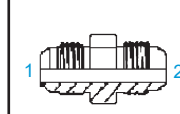
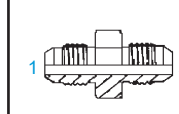
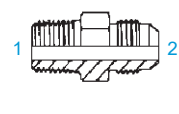
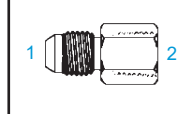
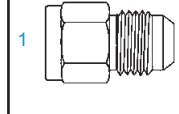
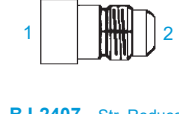
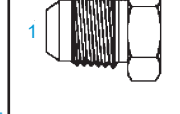
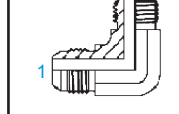
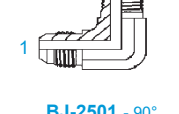
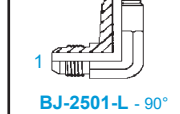
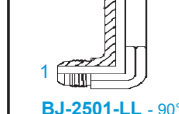
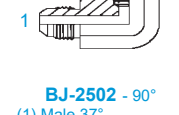
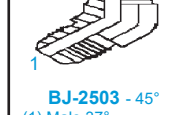
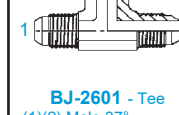
STEEL INVERTED FLARE

 SIF-105 - Str. Steel Inv. Flare Nut	 SIF-131 - Str. Steel Inv. Flare Plug	 SIF-7896 - Str. Steel Inverted Long Flare Nut
 SIF-2404 - Str. (1) Male 37° Flare (2) Male Inv. Flare		

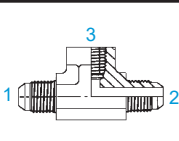
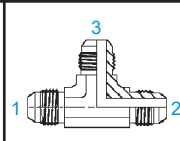
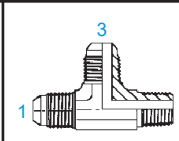
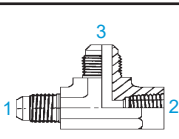
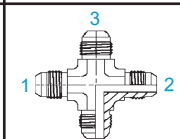
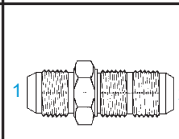
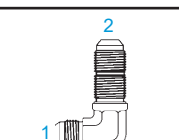
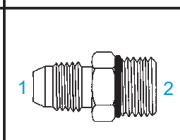
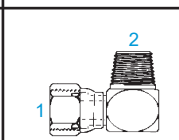
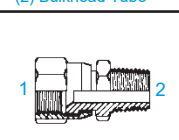
BRASS INVERTED FLARE BRAKE

 Dual Master Cylinder Adapter Type 1 (1) Male Inv. Flare (2) Fem. Inv. Flare	 Dual Master Cylinder Adapter Type 2 (1) Male Inv. Flare (2) Fem. Inv. Flare	 Dual Master Cylinder Adapter Type 3 (1) Male Straight Thread (2) Fem. Inv. Flare
 Dual Master Cylinder Adapter Type 4 (1) Male Pipe (2) Fem. Inv. Flare	 Dual Master Cylinder Adapter Type 5 (1) Male Bubble Thread (2) Fem. Inv. Flare	 Metric Adapter Type 1 (1) Male Bubble Thread (2) Tube O.D./ Fem. Thread
 Metric Adapter Type 2 (1) Male Inv. Flare (2) Tube O.D./ Fem. Thread	 Strap Tee Assembly Type 1 (1) Fem. Inverted Seat (2) Bolt Hole	 Strap Tee Assembly Type 2 (1) Fem. Inverted Seat (2) Bolt Hole
 Brake Adapter (1) Inverted Seat (2) Bolt Hole	 Rear Axle Tee (1) (2) Inverted Seat (3) Bolt Hole (4) Hose End Port	 Adapter Standard to Metric Bubble Type 1 (1) Male Inch Size Bubble Flare Thread (2) Fem. Inverted Seat
 Adapter Standard to Metric Bubble Type 2 (1) Male Metric Size Bubble Flare Metric Thread (2) Fem. Inverted Seat	 Metric Towed Trailer Brake Tee (1) Fem. Bubble Flare (2) Fem. Inverted Flare (3) Male Bubble Flare	 Towed Trailer Brake Tee (1) (2) Fem. Inv. Flare (3) Male Inv. Flare
 Metric Power Steering Adapter (1) Fem. Inv. Bump Tube (2) Male Metric	 BIF-7975 - Metric Union (1) (2) Fem. Bubble Flare	

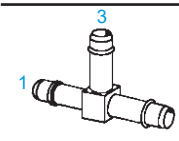
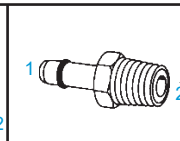
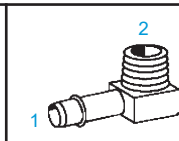
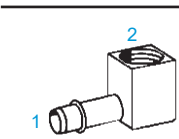
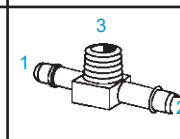
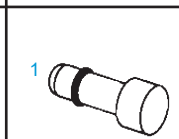
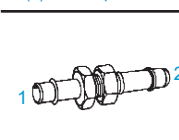
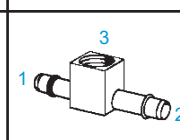
BRASS JIC

 BJ-0304-C Cap Nut	 BJ-0306 Bulkhead Lock Nut	 BJ-0318 37° Nut
 BJ-0319 37° Sleeve	 BJ-2403 - Str. (1)(2) Male 37° Union	 BJ-2403-LH - Str. (1)(2) Male 37° Union Large Hex
 BJ-2404 - Str. (1) Male 37° (2) Male Pipe	 BJ-2405 - Str. (1) Male 37° (2) Fem. Pipe	 BJ-2406 - Str. (1) Fem. 37° (2) Male 37°
 BJ-2407 - Str. Reducer Less Nut (1) 37° Fem. (2) Male 37°	 BJ-2408 - Str. (1) Male 37° Plug	 BJ-2500 - 90° (1)(2) Male 37° Union
 BJ-2501 - 90° (1) Male 37° (2) Male Pipe	 BJ-2501-L - 90° Long Male Pipe (1) Male 37° (2) Male Pipe	 BJ-2501-LL - 90° Extra Long Male Pipe (1) Male 37° (2) Male Pipe
 BJ-2502 - 90° (1) Male 37° (2) Fem. Pipe	 BJ-2503 - 45° (1) Male 37° (2) Male Pipe	 BJ-2601 - Tee (1)(2) Male 37° (3) Male Pipe

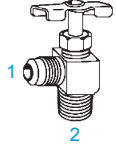
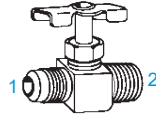
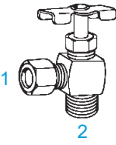
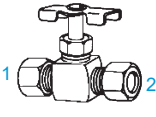
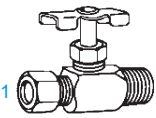
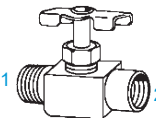
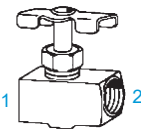
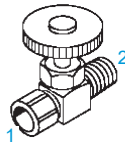
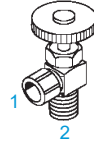
BRASS JIC, Continued

 BJ-2602 - Tee (1)(2) Male 37° (3) Fem. Pipe	 BJ-2603 - Tee (1)(2)(3) Male 37° Union	 BJ-2605 - Tee (1)(3) Male 37° (2) Male Pipe
 BJ-2606 - Tee (1)(3) Male 37° (2) Fem. Pipe	 BJ-2650 - Cross (1)(2)(3)(4) Male 37°	 BJ-2700 - Str. (1) Male 37° (2) Bulkhead
 BJ-2701 - 90° (1) Male 37° (2) Bulkhead Tube	 BJ-6400-O - Str. (1) Male 37° (2) Male O-Ring	 BJ-6501 - 90° (1) 37° Fem. Swivel (2) Male Pipe
 BJ-6505 - Str. (1) 37° Fem. Swivel (2) Male Pipe		

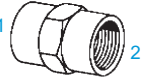
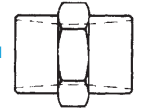
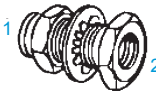
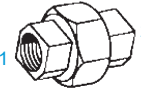
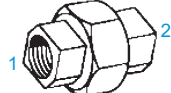
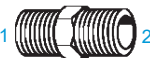
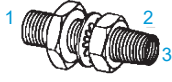
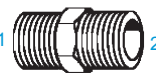
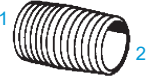
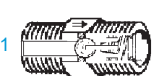
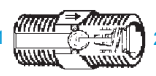
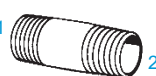
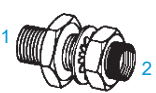
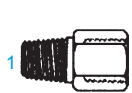
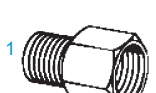
BRASS MINI BARB

 BMB-1064 - Tee (1)(2)(3) Mini Barb Union	 BMB-1068 - Str. (1) Mini Barb (2) Male Pipe	 BMB-1069 - 90° (1) Mini Barb (2) Male Pipe
 BMB-1070 - 90° (1) Mini Barb (2) Fem. Pipe	 BMB-1072 - Tee (1)(2) Mini Barb (3) Male Pipe	 BMB-1073 - Str. (1) Mini Barb Plug
 BMB-1074 - Str. (1) Mini Barb (2) Bulkhead Mini Barb	 BMB-1077 - Tee (1)(2) Mini Barb (3) Fem. Pipe	

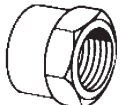
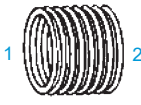
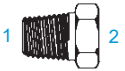
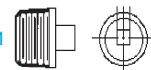
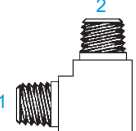
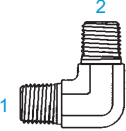
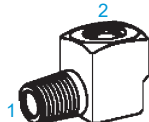
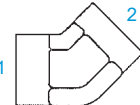
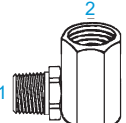
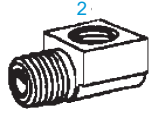
BRASS NEEDLE VALVE

 BNV-101F - 90° (1) Male 45° Flare (2) Male Pipe	 BNV-102F - Str. (1)(2) Male 45° Flare	 BNV-103F - Str. (1) Male 45° Flare (2) Male Pipe
 BNV-104C - 90° (1) Compression (2) Male Pipe	 BNV-105C - Str. (1)(2) Compression	 BNV-106C - Str. (1) Compression (2) Male Pipe
 BNV-106IF - Str. (1) Inv. Flare w/ Nut (2) Male Pipe	 BNV-107P - Str. (1)(2) Male Pipe	 BNV-108P - Str. (1) Male Pipe (2) Fem. Pipe
 BNV-109P - Str. (1)(2) Fem. Pipe	 BNV-311P - Str. (1) Poly Flow (2) Male Pipe	 BNV-312P - 90° (1) Poly Flow (2) Male Pipe

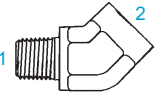
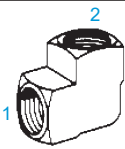
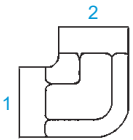
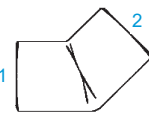
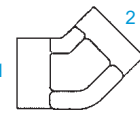
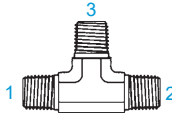
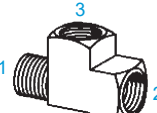
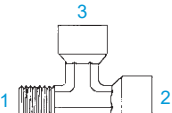
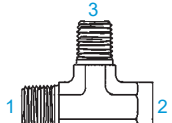
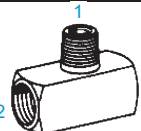
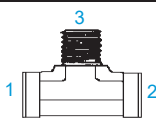
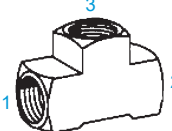
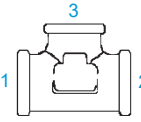
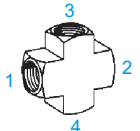
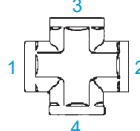
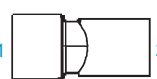
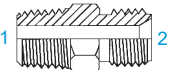
BRASS PIPE

 BP-0306 Bulkhead Lock Nut	 BP-5000 - Str. (1)(2) Fem. Pipe	 BP-5000-CV - Str. Check Valve (1)(2) Fem. Pipe
 BP-5000-BH - Str. (1)(2) Fem. Pipe Bulkhead	 BP-5000-U - Str. (Union) (1)(2) Fem. Pipe	 BP-5000-F-U - Str. (Forged Union) (1)(2) Fem. Pipe
 BP-5404 - Str. (1)(2) Male Pipe	 BP-5404-BH - Str. (1)(2) Male Pipe (3) Fem. Pipe	 BP-5404-BV40 - Str. (1)(2) Male Pipe w/ 40 Micron Filter
 BP-5404-BV90 - Str. (1)(2) Male Pipe w/ 90 Micron Filter	 BP-5404-CL - Str. (1)(2) Close Male Pipe	 BP-5404-CV-M - Str. Check Valve w/ Metal to Metal Seat (1)(2) Male Pipe
 BP-5404-CV-O - Str. Check Valve w/ O-Ring (1)(2) Male Pipe	 BP-5404-N - Str. Nipple (1)(2) Male Pipe	 BP-5405 - Str. (1) Male Pipe (2) Fem. Pipe
 BP-5405-BH - Str. (1) Male Pipe (2) Fem. Pipe Bulkhead	 BP-5405-R - Str. Restrictor (1) Male Pipe (2) Fem. Pipe	 BP-5405-S - Str. Swivel Adapters (1) Male Pipe (2) Fem. Pipe Swivel

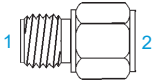
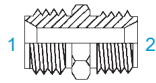
BRASS PIPE, Continued

 BP-5406 - Str. Bushing (1) Male Pipe (2) Fem. Pipe	 BP-5406-BM40 Conical Muffler (40 Micron) Filtration	 BP-5406-BV40 - Str. w/ 40 Micron Filter (1) Fem. Pipe (2) Male Pipe
 BP-5406-C Pipe Cap	 BP-5406-FB - (Face Bushing) (1) Male Pipe (2) Fem. Pipe	 BP-5406-FS-HHP 7/8 Taper Hex Socket Plug
 BP-5406-HHP Hex Socket Plug	 BP-5406-P-DRIL Drilled Plug (1) Pipe Plug	 BP-5406-P-SLD Solid Plug (1) Pipe Plug
 BP-5406-SHP Square Head Plug (1) Pipe Plug	 BP-5406-SPP Slot Head Pipe Plug (1) Pipe Plug	 BP-5406-SSP Square Socket Plug (1) Pipe Plug
 BP-5500 - 90° (1)(2) Male Pipe	 BP-5500-F - 90° (Forged) (1)(2) Male Pipe	 BP-5502 - 90° (1) Male Pipe (2) Fem. Pipe
 BP-5505-F - 45° (Forged) (1)(2) Fem. Pipe	 BP-5502-S - 90° Swivel (1) Male Pipe (2) Fem. Pipe	 BP-5502-SB - 90° Short Body (1) Male Pipe (2) Fem. Pipe

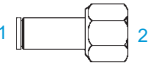
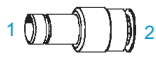
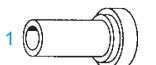
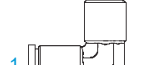
BRASS PIPE, Continued

 BP-5503 - 45° (1) Male Pipe (2) Fem. Pipe	 BP-5503-F - 45° (Forged) (1) Male Pipe (2) Fem. Pipe	 BP-5504 - 90° (1)(2) Fem. Pipe
 BP-5504-F - 90° (Forged) (1)(2) Fem. Pipe	 BP-5505 - 45° (1)(2) Fem. Pipe	 BP-5505-F - 45° (Forged) (1)(2) Fem. Pipe
 BP-5600-F - Tee (Forged) (1)(2)(3) Male Pipe	 BP-5602 - Tee (1) Male Pipe (2)(3) Fem. Pipe	 BP-5602-F - Tee (Forged) (1) Male Pipe (2)(3) Fem. Pipe
 BP-5603-F - Tee (Forged) (1)(3) Male Pipe (2) Fem. Pipe	 BP-5604 - Tee (1) Male Pipe (2)(3) Fem. Pipe	 BP-5604-F - Tee (Forged) (1)(2) Fem. Pipe (3) Male Pipe
 BP-5605 - Tee (1)(2)(3) Fem. Pipe	 BP-5605-F - Tee (Forged) (1)(2)(3) Fem. Pipe	 BP-5652 - Cross (1)(2)(3)(4) Fem. Pipe
 BP-5652-F - Cross (Forged) (1)(2)(3)(4) Fem. Pipe	 BP-BJO-8050-BO - 90° Body Only (1) Fem. Pipe (2) Banjo Body	 BP-BS-5172 - Str. (1) Male Pipe (2) Male Ball Seat

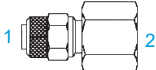
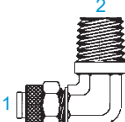
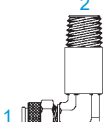
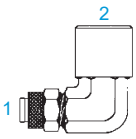
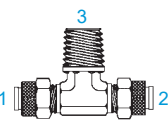
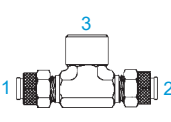
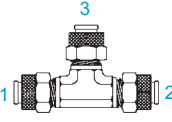
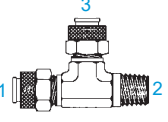
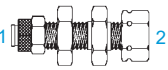
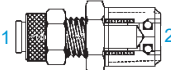
BRASS PIPE, Continued

		
BP-BS-5174 - Str. (1) Male NPSM Ball Seat (2) Fem. NPTF Taper	BP-BS-5176 - Str. (1)(2) Male Ball Seat	

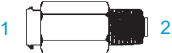
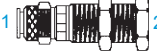
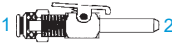
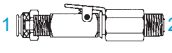
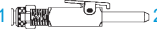
BRASS PUSH CONNECT

		
BPC-2161 - Cartridge (1) Tube	BPC-2323 - Str. (1)(2) Stem Union	BPC-2403 - Str. (1)(2) Tube Union
		
BPC-2404 - Str. (1) Tube (2) Male Pipe	BPC-2405 - Str. (1) Tube (2) Fem. Pipe	BPC-2406 - Str. Reducer/Expander (1) Stem (2) Tube
		
BPC-2408 - Str. (1) Tube Plug	BPC-2500 - 90° (1)(2) Tube Union	BPC-2501 - 90° (1) Tube (2) Male Pipe
		
BPC-2501-S - 90° (1) Tube (2) Male Pipe Swivel	BPC-2502 - 90° (1) Tube (2) Fem. Pipe	BPC-2502-S - 90° (1) Tube (2) Fem. Pipe Swivel
		
BPC-2503 - 45° (1) Tube (2) Male Pipe	BPC-2601 - Tee (1)(2) Tube (3) Male Pipe	BPC-2601-S - Tee (1)(2) Tube (3) Male Pipe Swivel
		
BPC-2602 - Tee (1)(2) Tube (3) Fem. Pipe	BPC-2603 - Tee (1)(2)(3) Tube Union	BPC-2605 - Tee (1)(3) Tube (2) Male Pipe

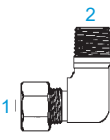
BRASS POLY FITTINGS

		
BPF-0318 Brass Nut	BPF-0319-P Plastic Sleeve	BPF-0320-B Brass Nut w/ Brass Sleeve Assm.
		
BPF-0320-P Brass Nut w/ Plastic Sleeve Assm.	BPF-2403 - Str. (1)(2) Poly Flow Union	BPF-2404 - Str. (1) Poly Flow (2) Male Pipe
		
BPF-2405 - Str. (1) Poly Flow (2) Fem. Pipe	BPF-2501 - 90° (1) Poly Flow (2) Male Pipe	BPF-2501-L - 90° (1) Poly Flow (2) Male Pipe Long
		
BPF-2502 - 90° (1) Poly Flow (2) Fem. Pipe	BPF-2601 - Tee (1)(2) Poly Flow (3) Male Pipe	BPF-2602 - Tee (1)(2) Poly Flow (3) Fem. Pipe
		
BPF-2603 - Tee (1)(2)(3) Poly Flow Union	BPF-2605 - Tee (1)(3) Poly Flow (2) Male Pipe	BPF-2700-LN - Str. (1) Poly Flow (2) Bulkhead Poly Flow
		
BPF-BC-2403 - Str. (1) Poly Flow (2) Brass Compression	BPF-BC-2700-LN - Str. (1) Poly Flow (2) Bulkhead Compression	BPF-SO-2404 - Str. (1) Poly Flow (2) Male Pipe w/ Shut Off Valve

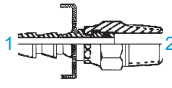
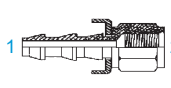
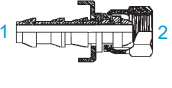
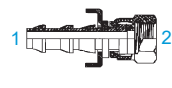
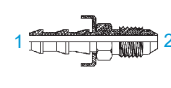
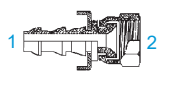
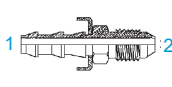
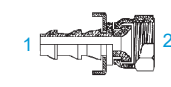
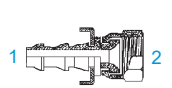
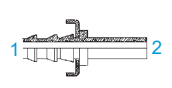
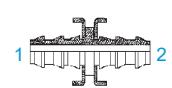
BRASS POLY FITTINGS KWIK CONNECT

		
BPF-KC-BO-2404 (1) Insert End (2) Male Pipe	BPF-KC-BO-2700-LN (1) Bulkhead Poly Flow (2) Insert End	BPF-KCS-BO-2000 Insert Single End Shut Off (1) Poly Flow (2) Insert - Non Valved
		
BPF-KCS-A-2404 Single Shut Off (1) Poly Flow Kwik Connect (2) Male Pipe	BPF-KCS-A-2700-LN Single Shut Off (1) Poly Flow Kwik Connect (2) Bulkhead Poly Flow	BPF-KCD-A-2404 Double Shut Off (1) Poly Flow Kwik Connect (2) Male Pipe
		
BPF-KCD-A-2700-LN Double Shut Off (1) Poly Flow Kwik Connect (2) Bulkhead Poly Flow	BPF-KCD-BO-2000 Insert Double End Shut Off (1) Poly Flow (2) Insert - Valved	

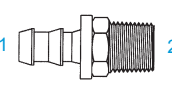
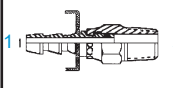
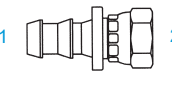
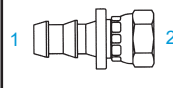
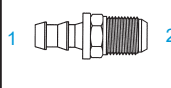
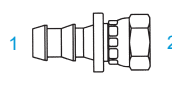
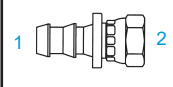
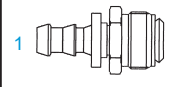
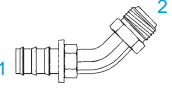
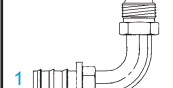
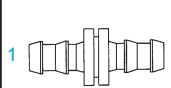
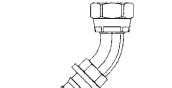
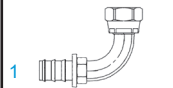
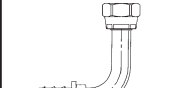
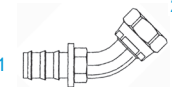
BRASS PRECISION GRIP TRANSMISSION FITTINGS

		
BPG-0318 - Nut	BPG-0319 - Sleeve	BPG-0363 Brass Insert
		
BPG-2403 - Str. (1)(2) Precision Grip Union	BPG-2404 - Str. (1) Precision Grip (2) Male Pipe	BPG-2501 - 90° (1) Precision Grip (2) Male Pipe

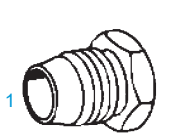
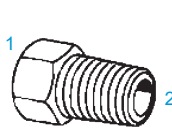
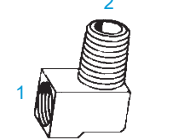
BRASS PUSH ON

 BPO-2272 - Str. (1) Push On (2) Male Pipe	 BPO-2273 - Str. (1) Push On (2) Male Pipe Swivel	 BPO-2274 - Str. (1) Push On (2) Fem. Pipe Rigid
 BPO-2278 - Str. (1) Push On (2) Fem. Pipe Swivel Ball Seat	 BPO-2280 - Str. (1) Push On (2) Fem. Pipe Swivel Gasket Seat	 BPO-2282 - Str. (1) Push On (2) Male 45° Flare
 BPO-2284 - Str. (1) Push On (2) Fem. 45° Swivel	 BPO-2286 - Str. (1) Push On (2) Male 37° Flare	 BPO-2287 - Str. (1) Push On (2) Fem. Dual Seat Swivel (45° / 37°)
 BPO-2288 - Str. (1) Push On (2) Fem. 37° Swivel	 BPO-2290 - Str. (1) Push On (2) Male Inv. Flare Swivel	 BPO-2292 - Str. (1) Push On (2) Fem. Inv. Flare Rigid
 BPO-2294 - Str. (1) Push On (2) Tube Shank	 BPO-2296 - Str. (1)(2) Hose Splicer	 BPO-2299 - 90° (1) Push On (2) Male Pipe

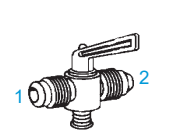
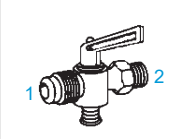
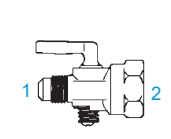
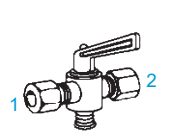
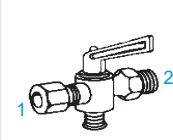
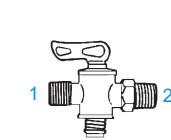
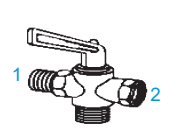
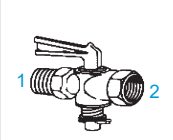
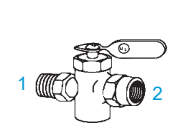
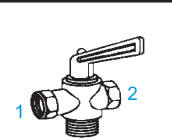
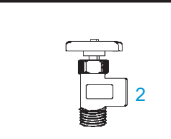
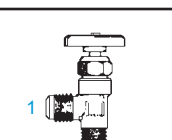
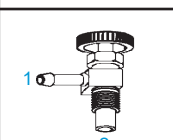
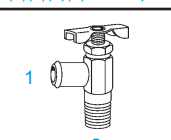
STEEL PUSH ON

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 SPO-2280 - Str. (1) Push On (2) Fem. Pipe Swivel Gasket Seat	 SPO-2284 - Str. (1) Push On (2) Fem. 45° Swivel	 SPO-2286 - Str. (1) Push On (2) Male 37°
 SPO-2287 - Str. (1) Push On (2) Fem. Dual Seat Swivel (45° / 37°)	 SPO-2288 - Str. (1) Push On (2) Fem. 37° Swivel	 SPO-2290 - Str. (1) Push On (2) Male Inv. Flare Swivel
 SPO-2291 - Str. (1) Push On (2) Male Inv. Flare Swivel	 SPO-2293 - Str. (1) Push On (2) Male Inv. Flare Swivel	 SPO-2296 - Str. (1) (2) Hose Splicer
 SPO-2305 - 45° (1) Push On (2) Fem. 37° Swivel	 SPO-2306 - 90° (1) Push On (2) Fem. 37° Swivel	 SPO-2306-L - 90° (1) Push On (2) Fem. 37° Swivel - long
 SPO-2345 - 45° (1) Push On (2) Fem. 45° SAE Swivel	 SPO-2346 - 90° (1) Push On (2) Fem. 45° SAE Swivel	

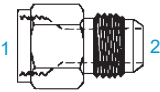
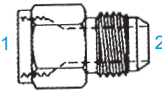
BRASS THREADED SLEEVE

 BTS-6100 - Str. (1) Brass Threaded Sleeve Nut	 BTS-6200 - Str. (1) Fem. Threaded Sleeve (2) Male Pipe	 BTS-6400 - 90° (1) Fem. Threaded Sleeve (2) Male Pipe

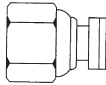
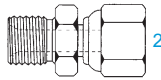
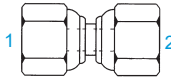
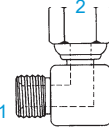
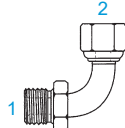
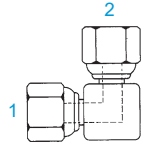
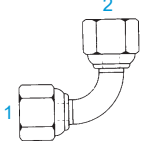
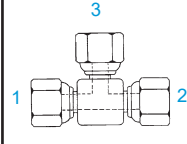
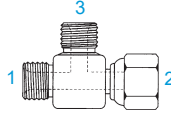
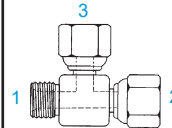
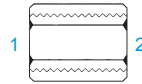
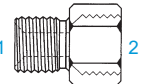
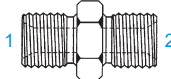
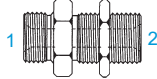
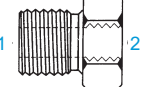
BRASS VALVE

 BV-203F - Str. (1)(2) Male 45° Flare	 BV-204F - Str. (1) Male 45° Flare (2) Male Pipe	 BV-209F - Str. (1) Male 45° Flare (2) Fem. Pipe
 BV-303C - Str. (1)(2) Compression	 BV-304C - Str. (1) Compression (2) Male Pipe	 BV-401P - Str. (1)(2) Male Pipe
 BV-402P - Str. (1) Male Pipe (2) Fem. Pipe	 BV-402P-HP - Str. (125 PSI) (1) Male Pipe (2) Fem. Pipe	 BV-402P-UL - Str. (Marine) (1) Male Pipe (2) Fem. Pipe
 BV-403P - Str. (1)(2) Fem. Pipe	 BV-404P - 90° (150 PSI) (1) Hose (2) Male Pipe	 BV-405P - 90° (150 PSI) (1) Male Pipe (2) Fem. Pipe
 BV-406P - 3 Way (1)(2)(3) Fem. Pipe	 BV-407P - 4 Way (1)(2)(3)(4) Fem. Pipe	 BV-407P-L - 4 Way w/ Long Stem (1)(2)(3)(4) Fem. Pipe
 BV-409F - 90° (1) Male 45° Flare (2) Male Pipe	 BV-6600 - Gasoline Shut-Off w/ Screen Filter (1) Hose (2) Male Pipe	 SV-404P - 90° (150 PSI) (1) Hose (2) Male Pipe

BRASS MISC. ADAPTERS

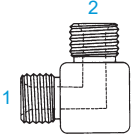
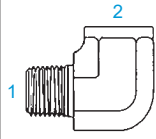
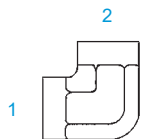
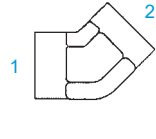
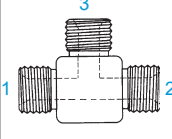
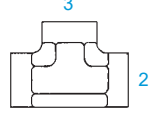
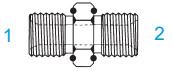
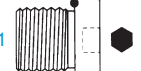
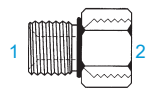
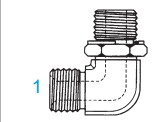
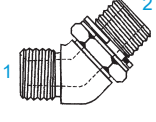
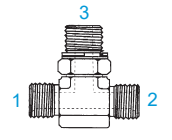
 BF-MJ-2406 - Str. (1) Fem. 45° SAE (5/8-18) (2) Male 37° (9/16-18)	 SF-FJ-2406 - Str. (1) Fem. 37° (9/16-18) (2) Male 45° SAE (5/8-18)	
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INTERNATIONAL &
CONVERSION ADAPTERS
BRITISH PARALLEL PIPE

 BPP-0304-C Fem. BPP Swivel Cap	 BPP-0306 Bulkhead Lock Nut	 BPP-1404 - Str. (1) Male BPP (2) Fem. BPP Swivel
 BPP-1406 - Str. (1)(2) Fem. BPP Swivel	 BPP-1501 - 90° (1) Male BPP (2) Fem. BPP Swivel	 BPP-1501-L - 90° (1) Male BPP (2) Fem. BPP Swivel - Long
 BPP-1506 - 90° (1)(2) Fem. BPP Swivel	 BPP-1506-L - 90° (1)(2) Fem. BPP Swivel - Long	 BPP-1603 - Tee (1)(2)(3) Fem. BPP Swivel
 BPP-1662 - Tee (1)(3) Male BPP (2) Fem. BPP Swivel	 BPP-1663 - Tee (1) Male BPP (2)(3) Fem. BPP Swivel	 BPP-4000 O-Ring (use w/ retainer washer)
 BPP-4000 - EO Peflex Seal	 BPP-5000 - Str. (1)(2) Fem. BPP	 BPP-5405 - Str. (1) Male BPP (2) Fem. BPP
 BPP-5404 - Str. (1)(2) Male BPP	 BPP-5404-BH-LN - Str. (1) Male BPP (2) Male BPP Bulkhead w/ locknut	 BPP-5406 - Str. Bushing (1) Male BPP (2) Fem. BPP

BRITISH PARALLEL PIPE

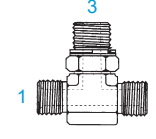
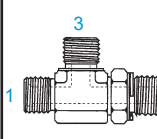
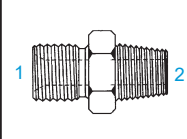
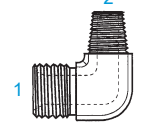
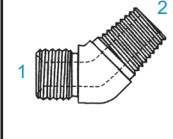
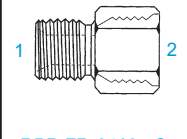
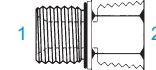
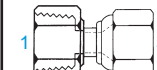
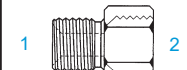
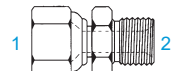
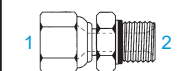
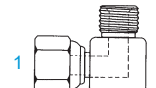
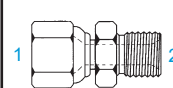
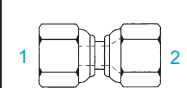
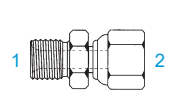
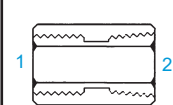
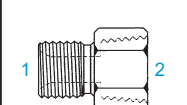
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 BPP-5505 - 45° (1)(2) Fem. BPP	 BPP-5600 - Tee (1)(2)(3) Male BPP	 BPP-5605 - Tee (1)(2)(3) Fem. BPP
 BPP-6000 BPP Retainer Washer	 BPP-6000 - C Copper Crush Washer	 BPP-6001 BPP Bonded Seal
 BPP-6403-EO - Str. (1) Male BPP (2) Male BPP	 BPP-6408 (1) Male BPP Plug	 BPP-6408-HHP-EO (1) Male BPP Hollow Hex Plug w/ Peflex Seal
 BPP-6410-EO - Str. (1) Male BPP w/ Peflex Seal (2) Fem. BPP	 BPP-7801-NW0-90° (1) Male BPP (2) Male BPP Adj. O-Ring	 BPP-7802-NW0 - 45° (1) Male BPP (2) Male BPP Adj. O-Ring
 BPP-7803-NW0 - Tee (1)(2) Male BPP (3) Male BPP Adj. O-Ring		

* Some BPP may not be Chamfer

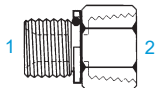
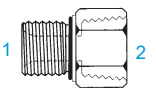
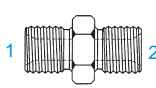
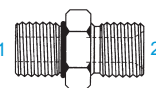
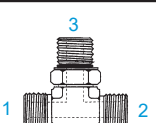
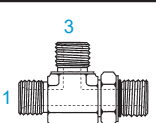
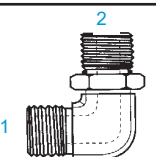
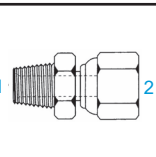
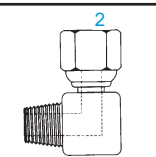
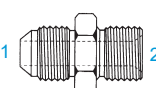
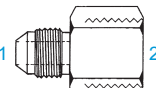
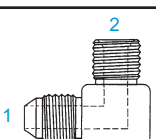
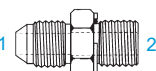
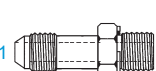
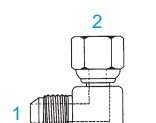
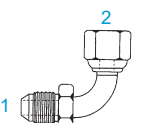
BRITISH PARALLEL PIPE

Continued

 BPP-7803-NW0 - Tee (1)(2) Male BPP (3) Male BPP Adj. O-Ring	 BPP-7804-NW0 - Tee (1)(3) Male BPP (2) Male BPP Adj. O-Ring	 BPP-BST-5404 - Str. (1) Male BPP (2) Male BSPT
 BPP-BST-5500 - 90° (1) Male BPP (2) Male BSPT	 BPP-BST-5501 - 45° (1) Male BPP (2) Male BSPT	 BPP-FB-6410 - Str. (1) Male BPP (2) Fem. O-Ring
 BPP-FB-6410-WO - Str. (1) Male BPP w/ Washer O-Ring (2) Fem. O-Ring	 BPP-FBST-1405 - Str. (1) Fem. BSPT (2) Fem. BPP Swivel	 BPP-FBST-5405 - Str. (1) Male BPP (2) Fem. BSPT
 BPP-FJX-6402-DS - Str. (1) 37° Fem. Swivel (2) Male BPP w/ Bonded Seal	 BPP-FJX-6402-EO - Str. (1) 37° Fem. Swivel (2) Male BPP w/ Peflex Seal	 BPP-FJX-6402-WO - Str. (1) 37° Fem. Swivel (2) Male BPP w/ Washer O-Ring
 BPP-FJX-6501 - 90° (1) 37° Fem. Swivel (2) Male BPP	 BPP-FJX-6505 - Str. (1) 37° Fem. Swivel (2) Male BPP	 BPP-FJX-6565 - Str. (1) 37° Fem. Swivel (2) Fem. BPP Swivel
 BPP-FOFS-6510 - Str. (1) Male BPP (2) Fem. O-Ring Face Seal Swivel (SAE)	 BPP-FP-5000 - Str. (1) Fem. BPP (2) Fem. Pipe	 BPP-FP-5405 - Str. (1) Male BPP (2) Fem. Pipe

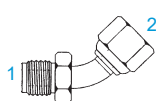
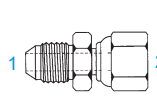
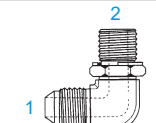
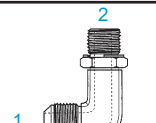
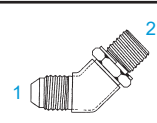
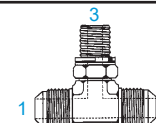
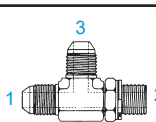
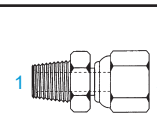
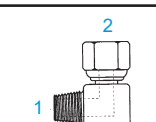
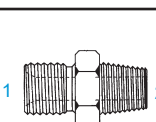
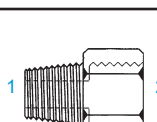
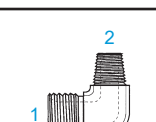
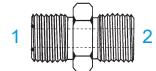
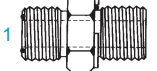
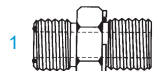
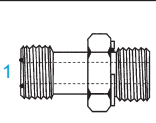
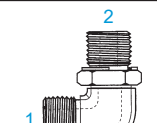
BRITISH PARALLEL PIPE

Continued

 BPP-FP-6405-DS - Str. (1) Male BPP w/ Bonded Seal (2) Fem. Pipe	 BPP-FP-6405-WO - Str. (1) Male BPP w/ Washer O-Ring (2) Fem. Pipe	 BPP-M-5404 - Str. (1) Male BPP (2) Male Metric
 BPP-MB-6401-O - Str. (1) Male O-Ring (SAE) (2) Male BPP	 BPP-MB-6803-NWO - Tee (1)(2) Male BPP (3) Male Adj. O-Ring (SAE)	 BPP-MB-6804-NWO - Tee (1)(3) Male BPP (2) Male Adj. O-Ring (SAE)
 BPP-MB-6806-NWO - Tee (1) Male BPP (2) Male Adj. O-Ring (SAE)	 BPP-MBST-1404 - Str. (1) Male BSPT (2) Fem. BPP Swivel	 BPP-MBST-1501 - 90° (1) Male BSPT (2) Fem. BPP Swivel
 BPP-MJ-2404 - Str. (1) Male 37° (2) Male BPP 30° Seat	 BPP-MJ-2405 - Str. (1) Male 37° (2) Fem. BPP (Rigid)	 BPP-MJ-2501 - 90° (1) Male 37° (2) Male BPP 30° Seat
 BPP-MJ-6400-DS - Str. (1) Male 37° (2) Male BPP w/ Bonded Seal	 BPP-MJ-6400-WO - Str. (1) Male 37° (2) Male BPP w/ Washer O-Ring	 BPP-MJ-6400-L-WO - Str. (1) Male 37° Long (2) Male BPP - w/ Washer & O-Ring
 BPP-MJ-6500 - 90° (1) Male 37° (2) Fem. BPP Swivel	 BPP-MJ-6500-L - 90° (1) Male 37° (2) Fem. BPP Swivel - Long	

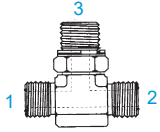
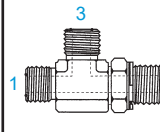
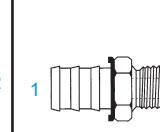
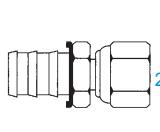
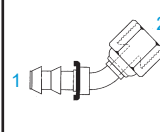
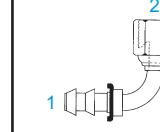
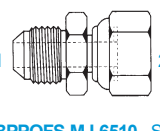
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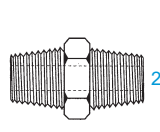
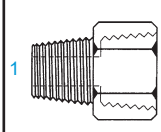
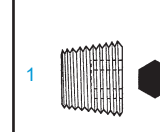
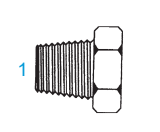
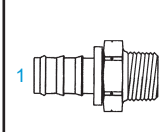
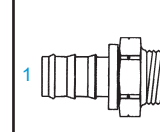
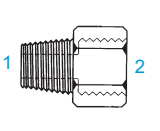
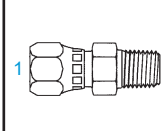
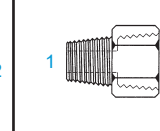
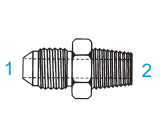
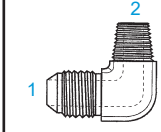
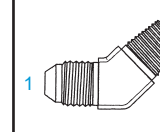
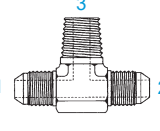
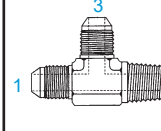
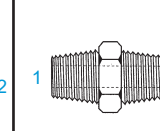
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 BPP-MJ-6801-L-NWO - 90° (1) Male 37° (2) Male BPP Adj. O-Ring w/ Retainer Washer-Long	 BPP-MJ-6802-NWO - 45° (1) Male 37° (2) Male BPP Adj. O-Ring w/ Retainer Washer	 BPP-MJ-6803-NWO - Tee (1)(2) Male 37° (3) Male BPP Adj. O-Ring w/ Retainer Washer
 BPP-MJ-6804-NWO - Tee (1)(3) Male 37° (2) Male BPP Adj. O-Ring w/ Retainer Washer	 BPP-MP-1404 - Str. (1) Male NPT Pipe (2) Fem. BPP Swivel	 BPP-MP-1501 - 90° (1) Male NPT Pipe (2) Fem. BPP Swivel
 BPP-MP-5404 - Str. (1) Male BPP 30° (2) Male NPT Pipe	 BPP-MP-5405 - Str. (1) Male NPT Pipe (2) Fem. BPP (Rigid)	 BPP-MP-5500 - 90° (1) Male BPP 30° (2) Male NPT Pipe
 BPP-OFS-2404 - Str. (1) Male O-Ring Face Seal (SAE) (2) Male BPP 30°	 BPP-OFS-6400-EO - Str. (1) Male BPP w/ Pexflex Seal (2) Male BPP w/ Washer O-Ring	 BPP-OFS-6400-WO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male BPP w/ Washer O-Ring
 BPP-OFS-6400-L-WO - Str. (1) Male O-Ring Face Seal - Long (SAE) (2) Male BPP w/ Washer O-Ring	 BPP-OFS-6801-NWO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male BPP Adj. O-Ring w/ Retainer Washer	 BPP-OFS-6802-NWO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male BPP Adj. O-Ring w/ Retainer Washer

BRITISH PARALLEL PIPE

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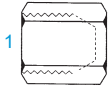
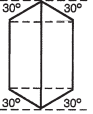
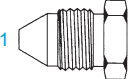
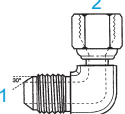
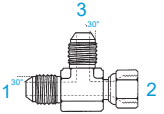
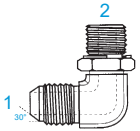
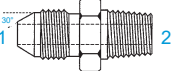
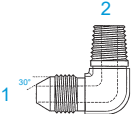
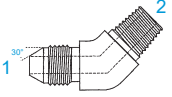
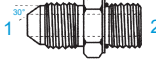
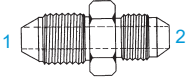
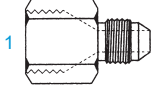
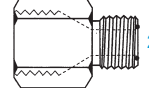
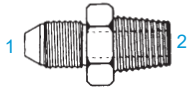
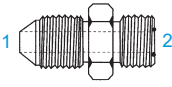
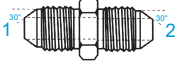
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 BPP-SPO-2278 - Str. (1) Steel Push On (2) Fem. BPP Swivel	 BPP-SPO-2305 - 45° (1) Steel Push On (2) Fem. BPP (30° Cone) Bent Tube Swivel	 BPP-SPO-2306 - 90° (1) Steel Push On (2) Fem. BPP (30° Cone) Bent Tube Swivel
 BPPOFS-MJ-6510 - Str. (1) Male 37° (2) Fem. BPP O-Ring Face Seal Swivel		

BRITISH STANDARD TAPER

 BST-5404 - Str. (1)(2) Male BSPT	 BST-5406 - Str. (1) Male BSPT (2) Fem. BSPT	 BST-5406-HHP (1) BSPT Hollow Hex Plug
 BST-5406-P (1) Male BSPT Plug	 BST-BPO-2272 - Str. (1) Brass Push On (2) Male BSPT	 BST-SPO-2272 - Str. (1) Steel Push On (2) Male BSPT
 BST-FBPP-5405 - Str. (1) Male BSPT (2) Fem. BPP	 BST-FJX-6505 - Str. (1) Fem. 37° Swivel (2) Male BSPT	 BST-FP-5405 - Str. (1) Male BSPT (2) Fem. NPT Pipe
 BST-MJ-2404 - Str. (1) Male 37° (2) Male BSPT	 BST-MJ-2501 - 90° (1) Male 37° (2) Male BSPT	 BST-MJ-2503 - 45° (1) Male 37° (2) Male BSPT
 BST-MJ-2601 - Tee (1)(2) Male 37° (3) Male BSPT	 BST-MJ-2605 - Tee (1)(3) Male 37° (2) Male BSPT	 BST-MP-5404 - Str. (1) Male BSPT (2) Male NPT Pipe

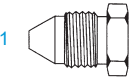
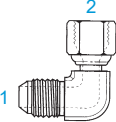
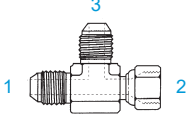
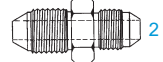
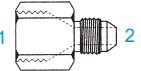
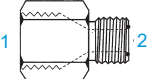
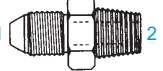
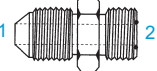
JAPANESE INDUSTRIAL STANDARD

All JISM - Komatsu 1.5mm thread

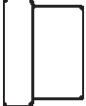
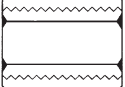
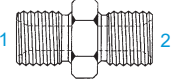
 JISBP-0304-C (1) Fem. 30° BPP (Flare) Cap	 JISBP-0321 JIS Sealing Seat (Converts Male 30° BPP Coneseat To 30° JIS Flare)	 JISBP-2403 - Str. (1)(2) Male 30° BPP (Flare)
 JISBP-2408 (1) Male 30° BPP (Flare) Plug	 JISBP-6500 - 90° (1) Male 30° BPP (Flare) (2) Fem. 30° BPP (Flare) Swivel	 JISBP-6602 - Tee (1)(3) Male 30° BPP (Flare) (2) Fem. 30° BPP (Flare) Swivel
 JISBP-BPP-6801-NWO - 90° (1) Male 30° BPP (Flare) (2) Male BPP Adj. O-Ring	 JISBP-BST-2404 - Str. (1) Male 30° BPP (Flare) (2) Male BSPT	 JISBP-BST-2501 - 90° (1) Male 30° BPP (Flare) (2) Male BSPT
 JISBP-BST-2503 - 90° (1) Male 30° BPP (Flare) (2) Male BSPT	 JISBP-MB-6400-O - Str. (1) Male 30° BPP (Flare) (2) Male O-Ring (SAE)	 JISBP-MJ-2403 - Str. (1) Male 30° BPP (Flare) (2) Male 37°
 JISBP-MJ-2406 - Str. (1) Fem. 30° BPP (Flare) (2) Male 37°	 JISBP-MOFS-2406 - Str. (1) Fem. 30° BPP (Flare) (2) Male O-Ring Face Seal (SAE)	 JISBP-MP-2404 - Str. (1) Male 30° BPP (Flare) (2) Male NPT Pipe
 JISBP-OFS-2403 - Str. (1) Male 30° BPP (Flare) (2) Male O-Ring Face Seal (SAE)	 JISM-0304-C (1) Fem. 30° Metric Cap Komatsu	 JISM-2403 - Str. (1)(2) Male 30° Metric Komatsu Union

JAPANESE INDUSTRIAL STANDARD

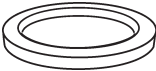
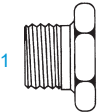
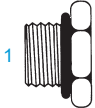
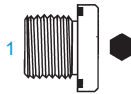
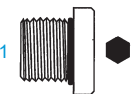
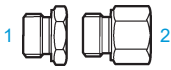
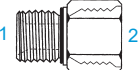
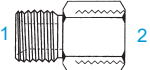
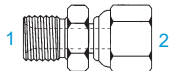
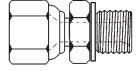
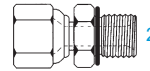
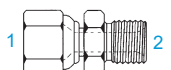
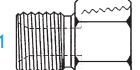
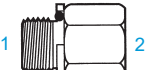
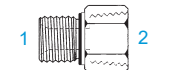
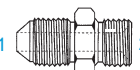
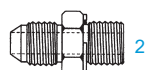
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 JISM-2408 (1) Male 30° Metric Komatsu Plug	 JISM-6500 - 90° (1) Male 30° Metric Komatsu (2) Fem. 30° Metric Komatsu Swivel	 JISM-6602 - Tee (1) Male 30° Metric Komatsu (2) Fem. 30° Metric Komatsu Swivel
 JISM-MJ-2403 - Str. (1) Male 30° Metric Komatsu (2) Male 37°	 JISM-MJ-2406 - Str. (1) Fem. 30° Metric Komatsu (2) Male 37°	 JISM-MOFS-2406 - Str. (1) Fem. 30° Metric Komatsu (2) Male O-Ring Face Seal (SAE)
 JISM-MP-2404 - Str. (1) Male 30° Metric Komatsu (2) Male NPT Pipe	 JISM-OFS-2403 - Str. (1) Male 30° Metric Komatsu (2) Male O-Ring Face Seal (SAE)	

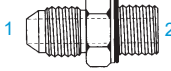
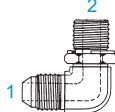
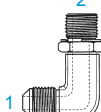
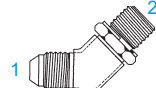
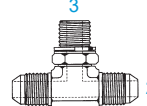
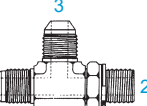
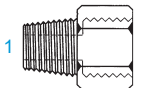
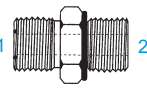
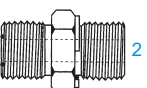
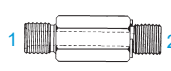
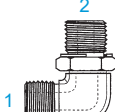
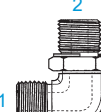
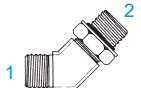
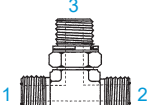
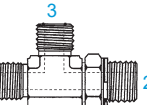
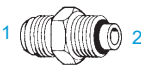
METRIC

 M-0319 37° Tube Sleeve (SAE) for Metric Tubing	 M-4000 Metric Buna-N 90 Duro O-Ring (for use w/ M-6000)	 M-4000-EO Metric Peflex Seal
 M-4000-ISO Metric ISO O-Ring (6149)	 M-5000 - Str. (1)(2) Fem. Metric (Rigid, Parallel)	 M-5404 - Str. (1)(2) Male Metric (Parallel)

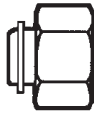
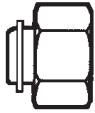
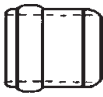
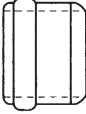
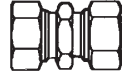
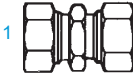
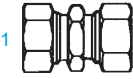
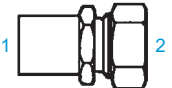
METRIC Continued

		
M-6000 Metric Steel Retaining Ring (use w/ M-4000)	M-6001 Metric Bonded Seal	M-6408 - Str. (1) Metric Hex Plug (Parallel, use w/ M-6001)
		
M-6408-ISO - Str. (1) Metric Hex Plug (Parallel) w/ ISO O-Ring	M-6408-HHP-EO - Str. (1) Metric Countersunk Hollow Hex Plug w/ Peflex Seal	M-6408-HHP-ISO - Str. (1) Metric Countersunk Hollow Hex Plug w/ ISO O-Ring 6149
		
M-6410 - Str. (1) Male Metric (Parallel) (2) Fem. Metric (Parallel) (Length of Hex may vary)	M-FB-6410-WO - Str. (1) Male Metric w/ Washer O-Ring (2) Fem. O-Ring (SAE)	M-FBPP-5405 - Str. (1) Male Metric (Parallel) (2) Fem. BPP (Rigid)
		
M-FBPP-6510 - Str. (1) Male Metric (Parallel) (2) Fem. BPP Pipe Swivel	M-FJX-6402-DS - Str. (1) Fem. 37° Swivel (2) Male Metric w/ Dowty Seal (Parallel)	M-FJX-6402-WO - Str. (1) Fem. 37° Swivel (2) Male Metric w/ Washer & O-Ring (Parallel)
		
M-FJX-6505 - Str. (1) Fem. 37° Swivel (2) Male Metric (Parallel)	M-FP-5405 - Str. (1) Male Metric (Parallel) (2) Fem. NPT Pipe	M-FP-6405-DS - Str. (1) Male Metric w/ Bonded Seal (2) Fem. NPT Pipe
		
M-FP-6405-WO - Str. (1) Male Metric w/ Washer & O-Ring (2) Fem. NPT Pipe	M-MJ-2404 - Str. (1) Male 37° (2) Male Metric (Parallel) (some w/ 30°, some w/ 24° seat)	M-MJ-6400-DS - Str. (1) Male 37° (2) Male Metric w/ Bonded Seal

METRIC Continued

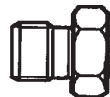
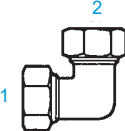
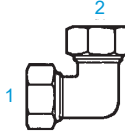
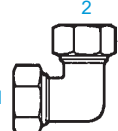
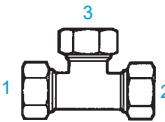
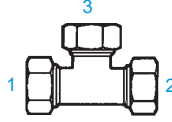
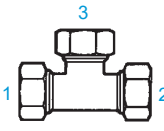
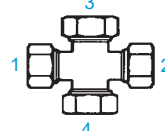
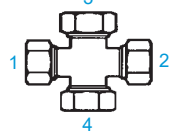
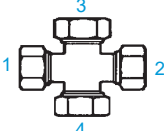
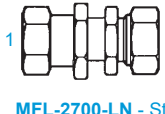
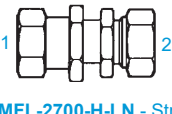
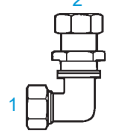
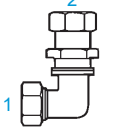
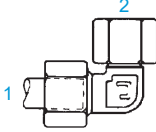
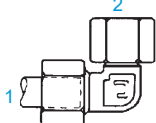
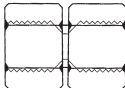
		
M-MJ-6400-WO - Str. (1) Male 37° (2) Male Metric w/ Washer & O-Ring	M-MJ-6801-NWO - 90° (1) Male 37° (2) Male Metric Adj. w/ Washer & O-Ring	M-MJ-6801-L-NWO - 90° (1) Male 37° (2) Male Metric Adj. w/ Washer & O-Ring - Long
		
M-MJ-6802-NWO - 45° (1) Male 37° (2) Male Metric Adj. w/ Washer & O-Ring	M-MJ-6803-NWO - Tee (1)(2) Male 37° (3) Male Metric Adj. w/ Washer & O-Ring	M-MJ-6804-NWO - Tee (1)(3) Male 37° (2) Male Metric Adj. w/ Washer & O-Ring
		
M-MP-5405 - Str. (1) Male NPT Pipe (2) Fem. Metric (Parallel)	M-OFS-6400-EO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male Metric w/ Peflex Seal	M-OFS-6400-WO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male Metric w/ Washer & O-Ring
		
M-OFS-6400-L-WO - Str. (1) Male O-Ring Face Seal (SAE) (2) Male Metric w/ Washer & O-Ring - Long	M-OFS-6801-NWO - 90° (1) Male O-Ring Face Seal (SAE) (2) Male Metric Adj. w/ Washer O-Ring	M-OFS-6801-NWO-ISO - 90° (1) Male O-Ring Face Seal (SAE) (2) Male Metric Adj. w/ Washer ISO O-Ring 6149
		
M-OFS-6802-NWO-ISO - 45° (1) Male O-Ring Face Seal (SAE) (2) Male Metric Adj. w/ Washer ISO O-Ring 6149	M-OFS-6803-NWO-ISO - Tee (1)(2) Male O-Ring Face Seal (SAE) (3) Male Metric Adj. w/ Washer ISO O-Ring 6149	M-OFS-6804-NWO - Tee (1)(3) Male O-Ring Face Seal (SAE) (2) Male Metric Adj. w/ Washer O-Ring
		
M-SBT-2404 - Str. (1) Male 37° (2) Metric O-Ring Bump Tube Port Adapter		

METRIC FLARELESS

		
MFL-0304-C Cap Nut Light	MFL-0304-C-H Cap Nut Heavy	MFL-0306 Bulkhead Lock Nut Light
		
MFL-0306-H Bulkhead Lock Nut Heavy	MFL-0318-LL Flareless Nut Extra Light	MFL-0318 Flareless Nut Light
		
MFL-0318-H Flareless Nut Heavy	MFL-0319-LL Flareless Sleeve Extra Light	MFL-0319 Flareless Sleeve Light
		
MFL-0319-H Flareless Sleeve Heavy	MFL-0320 Blanking Plug w/ O-Ring Light	MFL-0320-H Blanking Plug w/ O-Ring Heavy
		
MFL-2403-LL - Str. (1)(2) Male Flareless Union Extra Light	MFL-2403 - Str. (1)(2) Male Flareless Union Light	MFL-2403-H - Str. (1)(2) Male Flareless Union Heavy
		
MFL-2406 - Str. - Reducer (1) Metric Standpipe (2) Male Flareless Light	MFL-2406-H - Str. - Reducer (1) Metric Standpipe (2) Male Flareless Heavy	MFL-2408 - Str. (1) Male Flareless Plug Light

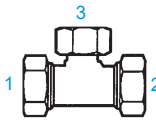
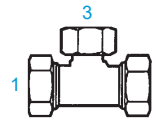
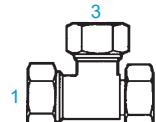
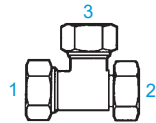
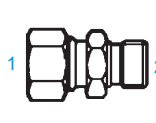
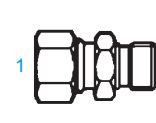
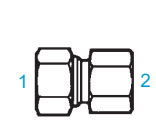
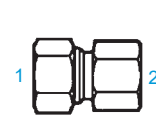
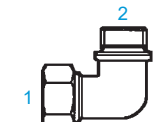
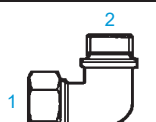
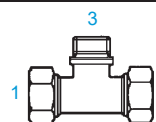
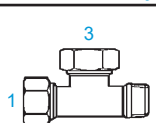
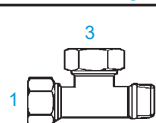
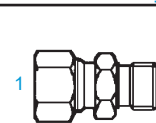
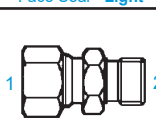
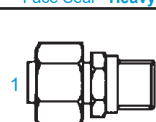
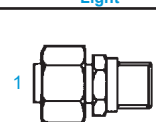
METRIC FLARELESS

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MFL-2408-H - Str. (1) Male Flareless Plug Heavy	MFL-2500-LL - 90° (1)(2) Male Flareless Extra Light	MFL-2500 - 90° (1)(2) Male Flareless Light
		
MFL-2500-H - 90° (1)(2) Male Flareless Heavy	MFL-2603-LL-Tee (1)(2)(3) Male Flareless Extra Light	MFL-2603-Tee (1)(2)(3) Male Flareless Light
		
MFL-2603-H-Tee (1)(2)(3) Male Flareless Heavy	MFL-2650-LL - Cross (1)(2)(3)(4) Male Flareless Extra Light	MFL-2650 - Cross (1)(2)(3)(4) Male Flareless Light
		
MFL-2650-H - Cross (1)(2)(3)(4) Male Flareless Heavy	MFL-2700-LN - Str. (1) Male Flareless (2) Male Flareless Bulkhead w/ Lock Nut Light	MFL-2700-H-LN - Str. (1) Male Flareless (2) Male Flareless Bulkhead w/ Lock Nut Heavy
		
MFL-2701-LN - 90° (1) Male Flareless (2) Male Flareless Bulkhead w/ Lock Nut - Light	MFL-2701-H-LN - 90° (1) Male Flareless (2) Male Flareless Bulkhead w/ Lock Nut - Heavy	MFL-6500 - 90° (1) Male Flareless (2) Fem. Flareless Swivel Light
		
MFL-6500-H - 90° (1) Male Flareless (2) Fem. Flareless Swivel Heavy	MFL-6565 - Str. (1)(2) Fem. Flareless Swivel Light	MFL-6565-H - Str. (1)(2) Fem. Flareless Swivel Heavy

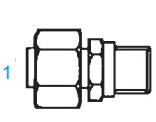
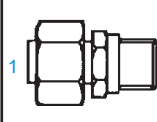
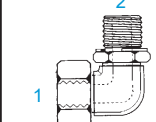
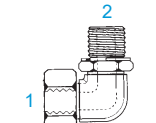
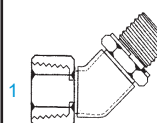
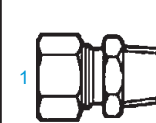
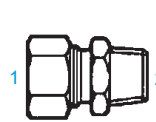
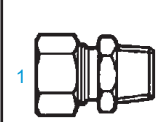
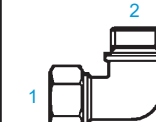
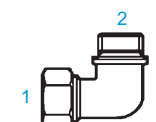
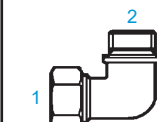
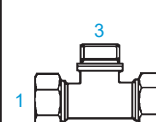
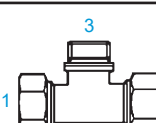
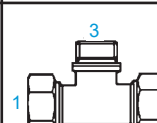
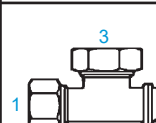
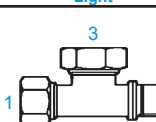
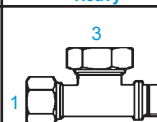
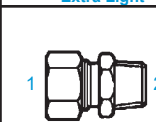
METRIC FLARELESS

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 MFL-6600 - Tee (1)(2) Male Flareless (3) Fem. Flareless Swivel Light	 MFL-6600-H - Tee (1)(2) Male Flareless (3) Fem. Flareless Swivel Heavy	 MFL-6602 - Tee (1)(3) Male Flareless (2) Fem. Flareless Swivel Light
 MFL-6602-H - Tee (1)(3) Male Flareless (2) Fem. Flareless Swivel Heavy	 MFL-BPP-2404 - Str. (1) Male Flareless (2) Male BPP w/ Cutting Face Seal - Light	 MFL-BPP-2404-H - Str. (1) Male Flareless (2) Male BPP w/ Cutting Face Seal - Heavy
 MFL-BPP-2405 - Str. (1) Male Flareless (2) Fem. BPP - Rigid Light	 MFL-BPP-2405-H - Str. (1) Male Flareless (2) Fem. BPP - Rigid Heavy	 MFL-BPP-2501 - 90° (1) Male Flareless (2) Male BPP w/ Cutting Face Seal - Light
 MFL-BPP-2501-H - 90° (1) Male Flareless (2) Male BPP w/ Cutting Face Seal - Heavy	 MFL-BPP-2601 - Tee (1)(2) Male Flareless (3) Male BPP w/ Cutting Face Seal - Light	 MFL-BPP-2601-H - Tee (1)(3) Male Flareless (2) Male BPP w/ Cutting Face Seal - Heavy
 MFL-BPP-2605 - Tee (1)(3) Male Flareless (2) Male BPP w/ Cutting Face Seal - Light	 MFL-BPP-2605-H - Tee (1)(3) Male Flareless (2) Male BPP w/ Cutting Face Seal - Heavy	 MFL-BPP-6400-EO - Str. (1) Male Flareless (2) Male BPP w/ Peflex Seal Light
 MFL-BPP-6400-H-EO - Str. (1) Male Flareless (2) Male BPP w/ Peflex Seal Heavy	 MFL-BPP-6510 - Str. (1) Fem. Flareless Swivel (2) Male BPP w/ Cutting Face Seal - Light	 MFL-BPP-6510-H - Str. (1) Fem. Flareless Swivel (2) Male BPP - Cutting Face Seal - Heavy

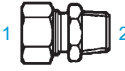
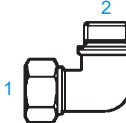
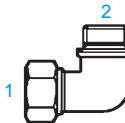
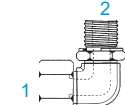
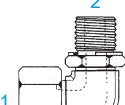
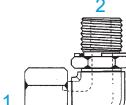
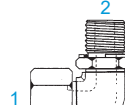
METRIC FLARELESS

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 MFL-BPP-6510-EO - Str. (1) Fem. Flareless Swivel (2) Male BPP - w/ Peflex Seal Light	 MFL-BPP-6510-H-EO - Str. (1) Fem. Flareless Swivel (2) Male BPP - w/ Peflex Seal Heavy	 MFL-BPP-6801-NWO - 90° (1) Male Flareless (2) Male BPP w/ Washer O-Ring Light
 MFL-BPP-6801-H-NWO - 90° (1) Male Flareless (2) Male BPP w/ Washer O-Ring Heavy	 MFL-BPP-6810-NWO - 45° (1) Male Flareless (2) Male BPP w/ Washer O-Ring Light	 MFL-BST-2404-LL - Str. (1) Male Flareless (2) Male BSPT Extra Light
 MFL-BST-2404 - Str. (1) Male Flareless (2) Male BSPT Light	 MFL-BST-2404-H - Str. (1) Male Flareless (2) Male BSPT Heavy	 MFL-BST-2501-LL - 90° (1) Male Flareless (2) Male BSPT Extra Light
 MFL-BST-2501-LL - 90° (1) Male Flareless (2) Male BSPT Light	 MFL-BST-2501-H - 90° (1) Male Flareless (2) Male BSPT Heavy	 MFL-BST-2601-LL - Tee (1)(2) Male Flareless (3) Male BSPT Extra Light
 MFL-BST-2601 - Tee (1)(2) Male Flareless (3) Male BSPT Light	 MFL-BST-2601-H - Tee (1)(2) Male Flareless (3) Male BSPT Heavy	 MFL-BST-2605-LL - Tee (1)(3) Male Flareless (2) Male BSPT Extra Light
 MFL-BST-2605 - Tee (1)(3) Male Flareless (2) Male BSPT Light	 MFL-BST-2605-H - Tee (1)(3) Male Flareless (2) Male BSPT Heavy	 MFL-M-2404-LL - Str. (1) Male Flareless (2) Male Metric Parallel w/ Cutting Face Seal Extra Light

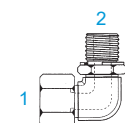
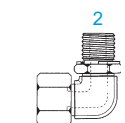
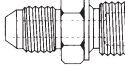
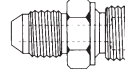
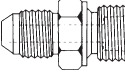
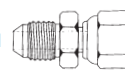
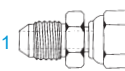
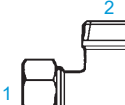
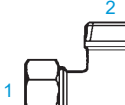
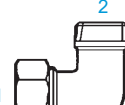
METRIC FLARELESS

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 MFL-M-2404 - Str. (1) Male Flareless (2) Male Metric Parallel w/ Cutting Face Seal Light	 MFL-M-2404-H - Str. (1) Male Flareless (2) Male Metric Parallel w/ Cutting Face Seal Heavy	 MFL-M-2405 - Str. (1) Male Flareless (2) Fem. Metric Parallel-Rigid Light
 MFL-M-2405-H - Str. (1) Male Flareless (2) Fem. Metric Parallel-Rigid Heavy	 MFL-M-2501 - 90° (1) Male Flareless (2) Male Metric Parallel w/ Cutting Face Seal Light	 MFL-M-2501-H - 90° (1) Male Flareless (2) Male Metric Parallel w/ Cutting Face Seal Heavy
 MFL-M-6400-EO - Str. (1) Male Flareless (2) Male Metric w/ Peflex Seal Light	 MFL-M-6400-H-EO - Str. (1) Male Flareless (2) Male Metric w/ Peflex Seal Heavy	 MFL-M-6400-ISO - Str. (1) Male Flareless (2) Male Metric w/ ISO O-Ring 6149 Light
 MFL-M-6400-H-ISO - Str. (1) Male Flareless (2) Male Metric w/ ISO O-Ring 6149 Heavy	 MFL-M-6510 - Str. (1) Fem. Flareless Swivel (2) Male Metric Parallel w/ Cutting Face Seal Light	 MFL-M-6510-H - Str. (1) Fem. Flareless Swivel (2) Male Metric Parallel w/ Cutting Face Seal Heavy
 MFL-M-6510-EO - Str. (1) Fem. Flareless Swivel (2) Male Metric Parallel w/ Peflex Seal Light	 MFL-M-6510-H-EO - Str. (1) Fem. Flareless Swivel (2) Male Metric Parallel w/ Peflex Seal Heavy	 MFL-M-6801-NWO - 90° (1) Male Flareless (2) Male Metric w/ Washer O-Ring Light
 MFL-M-6801-H-NWO - 90° (1) Male Flareless (2) Male Metric w/ Washer O-Ring Heavy	 MFL-M-6801-NWO-ISO - 90° (1) Male Flareless (2) Male Metric w/ ISO O-Ring 6149-Light	 MFL-M-6801-H-NWO-ISO - 90° (1) Male Flareless (2) Male Metric w/ ISO O-Ring 6149 - Heavy

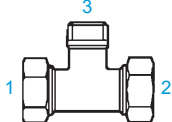
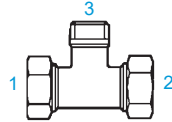
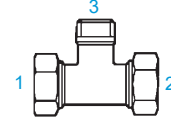
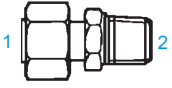
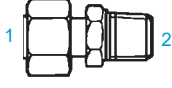
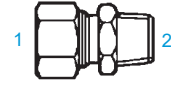
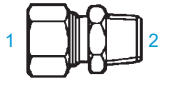
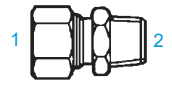
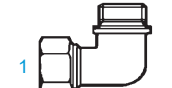
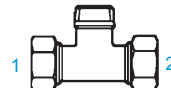
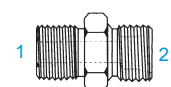
METRIC FLARELESS

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 MFL-MB-6400-O - Str. (1) Male Flareless (2) Male O-Ring Boss Light	 MFL-MB-6400-H-O - Str. (1) Male Flareless (2) Male O-Ring Boss Heavy	 MFL-MB-6510-O - Str. (1) Fem. Flareless Swivel (2) Male O-Ring Boss Light
 MFL-MB-6510-H-O - Str. (1) Fem. Flareless Swivel (2) Male O-Ring Boss Heavy	 MFL-MB-6801-NWO - 90° (1) Male Flareless (2) Male O-Ring Boss Light	 MFL-MB-6801-H-NWO - 90° (1) Male Flareless (2) Male O-Ring Boss Heavy
 MFL-MJ-3901-LL - Str. (1) Male 37° (2) Male Metric Dual Purpose (Port or Tube) Extra Light	 MFL-MJ-3901 - Str. (1) Male 37° (2) Male Metric Dual Purpose (Port or Tube) Light	 MFL-MJ-3901-H - Str. (1) Male 37° (2) Male Metric Dual Purpose (Port or Tube) Heavy
 MFL-MJ-6510 - Str. (1) Male 37° (2) Fem. Flareless Swivel Light	 MFL-MJ-6510-H - Str. (1) Male 37° (2) Fem. Flareless Swivel Heavy	 MFL-MJ-6511 - Str. (1) Male 37° (2) Metric Standpipe Light
 MFL-MP-2404-LL - Str. (1) Male Flareless (2) Male NPT Extra Light	 MFL-MP-2404 - Str. (1) Male Flareless (2) Male NPT Light	 MFL-MP-2404-H - Str. (1) Male Flareless (2) Male NPT Heavy
 MFL-MP-2501-LL - 90° (1) Male Flareless (2) Male NPT Extra Light	 MFL-MP-2501 - 90° (1) Male Flareless (2) Male NPT Light	 MFL-MP-2501-H - 90° (1) Male Flareless (2) Male NPT Heavy

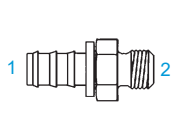
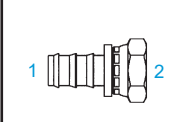
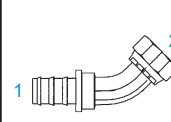
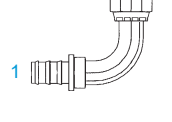
METRIC FLARELESS

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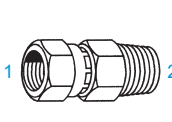
 MFL-MP-2601-LL - Tee (1)(2) Male Flareless (3) Male NPT Extra Light	 MFL-MP-2601 - Tee (1)(2) Male Flareless (3) Male NPT Light	 MFL-MP-2601-H - Tee (1) (2) Male Flareless (3) Male NPT Heavy
 MFL-MP-6510 - Str. (1) Fem. Flareless Swivel (2) Male NPT Light	 MFL-MP-6510-H - Str. (1) Fem. Flareless Swivel (2) Male NPT Heavy	 MFL-MT-2404-LL - Str. (1) Male Flareless (2) Male Metric Taper Extra Light
 MFL-MT-2404 - Str. (1) Male Flareless (2) Male Metric Taper Light	 MFL-MT-2404-H - Str. (1) Male Flareless (2) Male Metric Taper Heavy	 MFL-MT-2501-LL - 90° (1) Male Flareless (2) Male Metric Taper Extra Light
 MFL-MT-2501 - 90° (1) Male Flareless (2) Male Metric Taper Light	 MFL-MT-2501-H - 90° (1) Male Flareless (2) Male Metric Taper Heavy	 MFL-MT-2601-LL - Tee (1)(2) Male Flareless (3) Male Metric Taper Extra Light
 MFL-MT-2601 - Tee (1)(2) Male Flareless (3) Male Metric Taper Light	 MFL-MT-2601-H - Tee (1)(2) Male Flareless (3) Male Metric Taper Heavy	 MFL-MT-2605-LL - Tee (1)(3) Male Flareless (2) Male Metric Taper Extra Light
 MFL-MT-2605 - Tee (1)(3) Male Flareless (2) Male Metric Taper Light	 MFL-MT-2605-H - Tee (1)(3) Male Flareless (2) Male Metric Taper Heavy	 MFL-OFS-3901 - Str. (1) Male O-Ring Face Seal (2) Male Metric Dual Purpose (Port or Tube)

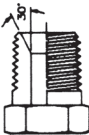
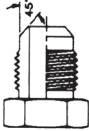
METRIC FLARELESS

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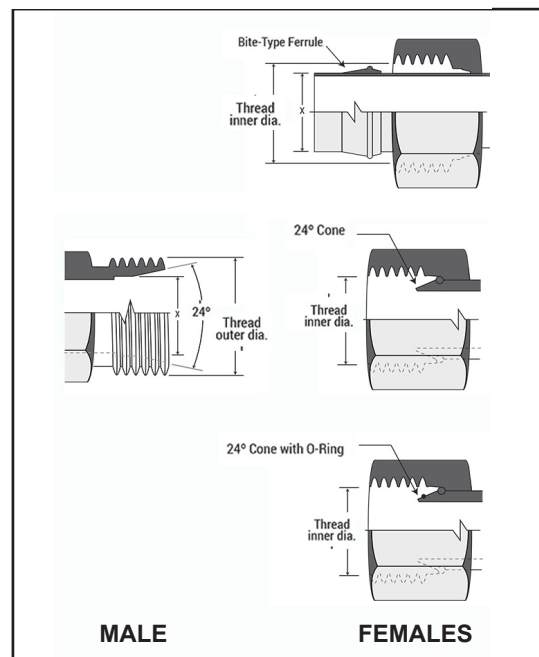
 MFL-SPO-2272 - Str. (1) Male Push On (2) Male Metric 24°	 MFL-SPO-2278 - Str. (1) Male Push On (2) Fem. Metric 24° Swivel	 MFL-SPO-2305 - 45° (1) Male Push On (2) Fem. Metric 24° Swivel
 MFL-SPO-2306 - 90° (1) Male Push On (2) Fem. Metric 24° Swivel		

MISCELLANEOUS

 MT-FJX-6505 - Str. (1) Fem. 37° Swivel (2) Male Metric Taper		

									
Dash #	Size	Pipe Size	O-Ring Face Seal	37° Flare (JIC)	Flareless	Straight Thread O-Ring SAE	45° Flare	Inverted Flare	Compression
2	1/8	1/8-27	—	5/16-24	5/16-24	5/16-24	5/16-24	5/16-28	5/16-24
3	3/16	—	—	3/8-24	3/8-24	3/8-24	3/8-24	3/8-24	3/8-24
4	1/4	1/4-18	9/16-18	7/16-20	7/16-20	7/16-20	7/16-20	7/16-24	7/16-24
5	5/16	—	—	1/2-20	1/2-20	1/2-20	1/2-20	1/2-20	1/2-24
6	3/8	3/8-18	1 1/16-16	9/16-18	9/16-18	9/16-18	5/8-18	5/8-18	9/16-24
7	7/16	—	—	—	—	—	1 1/16-16	1 1/16-18	5/8-24
8	1/2	1/2-14	1 3/16-16	3/4-16	3/4-16	3/4-16	3/4-16	3/4-18	1 1/16-20
10	5/8	—	1-14	7/8-14	7/8-14	7/8-14	7/8-14	7/8-18	1 3/16-18
12	3/4	3/4-14	1 3/16-12	1 1/16-12	1 1/16-12	1 1/16-12	1 1/16-14	1 1/16-16	1-18
14	7/8	—	1 3/16-12	1 3/16-12	1 3/16-12	1 3/16-12	—	1 3/16-16	—
16	1	1-11/1/2	1 7/16-12	1 5/16-12	1 5/16-12	1 5/16-12	—	1 5/16-16	1 1/4-18
20	1 1/4	1 1/4-11 1/2	1 11/16-12	1 5/8-12	1 5/8-12	1 5/8-12	—	—	—
24	1 1/2	1 1/2-11 1/2	2-12	1 7/8-12	1 7/8-12	1 7/8-12	—	—	—
32	2	2-11 1/2	—	2 1/2-12	2 1/2-12	2 1/2-12	—	—	—

DIN 2353-24° MALE AND MATING FEMALES



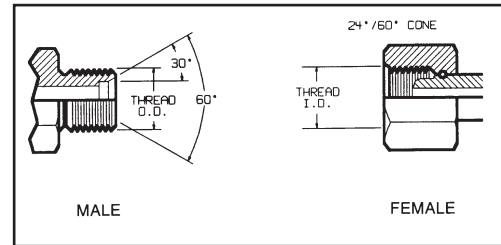
Thread Size	Male Thread O.D.		Female Thread I.D.		Tube O.D. "T" Dim.			
	mm	in	mm	in	Light Duty		Heavy Duty	
M12 x 1.5	12	.47	10.5	.41	6	.24	-	-
M14 x 1.5	14	.55	12.5	.49	8	.32	6	.24
M16 x 1.5	16	.63	14.5	.57	10	.39	8	.32
M18 x 1.5	18	.71	16.5	.65	12	.47	10	.39
M20 x 1.5	20	.78	18.5	.73	-	-	12	.47
M22 x 1.5	22	.87	20.5	.81	15	.59	14	.55
M24 x 1.5	24	.94	22.5	.89	-	-	16	.63
M26 x 1.5	26	1.02	24.5	.96	18	.71	-	-
M30 x 2	30	1.18	28	1.11	22	.87	20	.78
M36 x 2	36	1.41	34	1.34	28	1.10	25	.98
M42 x 2	42	1.65	40	1.57	-	-	30	1.18
M45 x 2	45	1.77	43	1.70	35	1.38	-	-
M52 x 2	52	2.04	50	1.97	42	1.65	38	1.50

This connector system consists of one male and three styles of female, all of which have straight metric threads. Sealing takes place between the 24° seat in the male end and the respective sealing areas in the female ends. DIN 2353 includes both a light and heavy duty series which can be identified by measuring the tube O.D.

GERMAN DIN COMPRESSION

Series	Oper. Press. (bar)	Tube O.D.	Thread Size
LL	100	4	M 8x1
LL	100	6	M 10x1
LL	100	8	M 12x1
L	250	6	M 12A.5
L	250	8	M 14x1.5
L	250	10	M 16x1.5
L	250	12	M 18x1.5
L	250	15	M 22x1.5
L	160	18	M 26x1.5
L	160	22	M 30x2
L	100	28	M 36x2
L	100	35	M 45x2
L	100	42	M 52x2
S	630	6	M 14x1.5
S	630	8	M 16x1.5
S	630	10	M 18x1.5
S	630	12	M 20x1.5
S	630	14	M 22x1.5
S	400	16	M 24x1.5
S	400	20	M 30x2
S	400	25	M 36x2
S	250	30	M 42x2
S	250	38	M 52x2

DIN 7611-60° SERIES



This German standard consists of a single male and female end with straight metric threads. The female has a 60° or a universal 24°/60° cone which seals on the 60° seat in the male end.

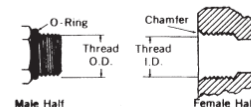
Thread Size	Male Thread O.D.		Female Thread I.D.		Tube O.D.	
	mm	in	mm	in	mm	in
M12 x 1.5	12	.47	10.5	.41	6	.24
M14 x 1.5	14	.55	12.5	.49	8	.32
M16 x 1.5	16	.63	14.5	.57	10	.39
M18 x 1.5	18	.71	16.5	.65	12	.47
M22 x 1.5	22	.87	20.5	.81	15	.59
M26 x 1.5	26	1.02	24.5	.96	18	.71
M30 x 1.5	30	1.18	28.5	1.12	22	.87
M38 x 1.5	38	1.50	36.5	1.44	28	1.10
M45 x 1.5	45	1.77	43.5	1.71	35	1.38
M52 x 1.5	52	2.04	50.5	1.99	42	1.65

ISO CONNECTION

ISO Connection

ISO 6149 Port and Stud Ends with ISO 261 Threads and O-Ring Seal

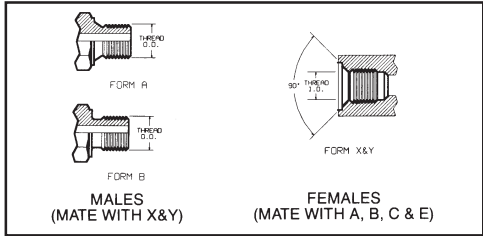
This port connection is similar to the SAE J514 Straight Thread O-Ring Boss (ORB). The major difference is that this connection uses metric threads. The male connector has a straight thread and an O-Ring. The female port has a straight thread, a machined surface (minimum spotface) and a chamfer to accept the O-Ring. The seal takes place by compressing the O-Ring into the chamfer. The threads hold the connection mechanically.



*M14 x 1.5: Recommended for diagnostic port application.

METRIC THREADS	MALE THREAD O.D. MM	FEMALE THREAD I.D. MM
M8 x 1	8	7
M10 x 1	10	9
M12 x 1.5	12	10.5
M14 x 1.5*	14	12.5
M16 x 1.5	16	14.5
M18 x 1.5	18	16.5
M22 x 1.5	22	20.5
M27 x 2	27	25
M33 x 2	33	31
M42 x 2	42	40
M48 x 2	48	46
M60 x 2	60	58

DIN 3852-PARALLEL THREADS METRIC & WHITWORTH, SHEETS 1 & 2



This large and somewhat complicated thread standard is divided into two sections. Sheet 1 covers metric threads and Sheet 2, Whitworth (BSP) pipe threads. Both thread styles are available in parallel or tapered configurations.

Male thread forms A,B,C or E (E is not shown here) will mate with form X or form Y female ports while tapered male form C mates with female form Z.

The parallel threads seal using various sealing rings or washers such as O-Rings, bonded seals or metal to metal seals. Form E is used by agreement between the supplier and user and also incorporates numerous sealing rings.

Form X and Y parts will always have a machined or spotfaced surface to accommodate the required seals.

Metric Parallel Threads - Sheet 1

Thread	Male Thread O.D.		Female Thread I.D.	
	mm	in	mm	in
M12 x 1.5	12	.47	10.5	.41
M14 x 1.5	14	.55	12.5	.49
M16 x 1.5	16	.63	14.5	.57
M18 x 1.5	18	.71	16.5	.65
M20 x 1.5	20	.78	18.5	.73
M22 x 1.5	22	.87	20.5	.81
M24 x 1.5	24	.94	22.5	.89
M26 x 1.5	26	1.02	24.5	.96
M27 x 2	27	1.06	25.5	1.00
M30 x 1.5	30	1.18	28	1.11
M30 x 2	30	1.18	28	1.11
M33 x 2	33	1.30	31.5	1.24
M36 x 2	36	1.41	34	1.34
M38 x 2	38	1.50	36	1.41
M42 x 2	42	1.65	40	1.57
M45 x 2	45	1.77	43	1.70
M48 x 2	48	1.89	46	1.81
M52 x 2	52	2.04	50	1.97

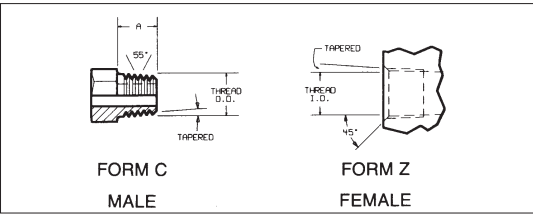
DIN 3852-PARALLEL THREADS METRIC & WHITWORTH, SHEETS 1 & 2

Continued

Metric Parallel Threads - Sheet 2

Thread Size	Male Thread O.D.		Female Thread I.D.		Tube O.D.'s Series			
					L. Light		S. Heavy	
	mm	in	mm	in	mm	in	mm	in
1/8-28	10.3	.41	9.4	.37	6	.24	-	-
1/4-19	13.7	.54	12.4	.49	8	.31	6	.24
					10	.39	8	.31
3/8-19	17.3	.68	15.7	.62	12	.47	10	.39
					14	.55	12	.47
1/2-14	21.3	.84	19.3	.76	15	.59	14	.55
					18	.71	16	.63
3/4-14	26.9	1.06	24.9	.98	22	.87	20	.79
1-11	33.3	1.31	31.5	1.24	28	1.10	25	.98
1 1/4-11	42.2	1.66	40.1	1.58	35	1.38	30	1.18
1 1/2-11	48.3	1.90	46.2	1.82	42	1.65	38	1.50

DIN 3852-TAPERED THREADS METRIC & WHITWORTH, SHEETS 1 & 2



The DIN 3852 form C male mates with a form Z female port and seals on the threads as they are crushed together.

Both male and female have tapered threads and are available in metric or Whitworth styles.

Metric Tapered Threads - Sheet 1

Thread	Male Thread O.D.		Female Thread I.D.		A	
	mm	in	mm	in	mm	in
M10 x 1	10	.39	8.5	.33	8	.32
M12 x 1.5	12	.47	10.5	.41	12	.47
M14 x 1.5	14	.55	12.5	.49	12	.47
M16 x 1.5	16	.63	14.5	.57	12	.47
M18 x 1.5	18	.71	16.5	.65	12	.47
M20 x 1.5	20	.78	18.5	.73	14	.55
M22 x 1.5	22	.87	20.5	.81	14	.55
M24 x 1.5	24	.94	22.5	.89	14	.55
M27 x 2	27	1.06	25.5	1.00	16	.63

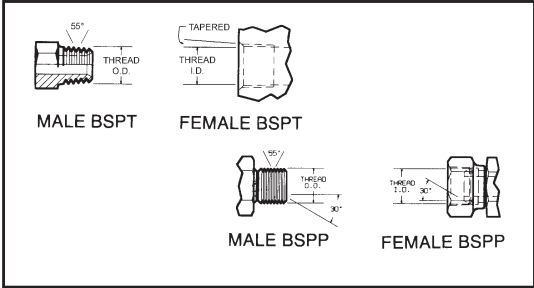
DIN 3852-TAPERED THREADS METRIC & WHITWORTH, SHEETS 1 & 2

Continued

Whitworth Tapered Threads - Sheet 2

Thread Size	Male Thread O.D.		Female Thread O.D.		A Series		O.D.'s	Tube	
	mm	in	mm	in	mm	in		mm	in
1/8-28	10.3	.41	9.4	.37	8	.31	LL Extra Light	4	.16
								5	.20
								6	.24
								8	.31
1/8-28	10.3	.41	9.4	.37	8	.31	L Light	6	.24
1/4-19	13.7	.54	12.4	.49	12	.47		8	.31
3/8-19	17.3	.68	15.7	.62	12	.47		10	.39
								12	.47
								14	.55
1/2-14	21.3	.84	19.3	.76	14	.55		15	.59
								16	.63
								18	.71
1/4-19	13.7	.54	12.4	.49	12	.47		S Heavy	6
3/8-19	17.3	.68	15.7	.62	12	.47	8		.31
							10		.39
							12		.47
1/2-14	21.3	.84	19.3	.76	14	.55	14		.55
							16		.63

BRITISH STANDARD PIPE-BSP (BSPP PARALLEL & BSPT TAPERED)



The British BSP connections include two types of threads, BSPP which are straight (or parallel) and BSPT which are tapered.

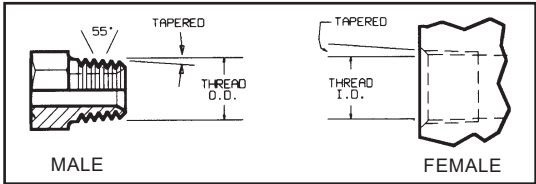
The BSPT tapered male will mate with a BSPT tapered female (usually a port) and seals on the threads.

The BSPP parallel male has a 30° chamfered seat which seals with a BSPP swivel female on it's 30° cone seat. (Similar to the American NPSM-NPTF connection, however, the BSPP swivel female end is commonly found on couplings).

The BSP threads are similar to, but not interchangeable with, American NPTF pipe threads.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			mm	in	mm	in
-2	1/8	1/8 - 28	10.3	.41	9.4	.37
-4	1/4	1/4 - 19	13.7	.54	12.4	.49
-6	3/8	3/8 - 19	17.3	.68	15.7	.62
-8	1/2	1/2 - 14	21.3	.84	19.3	.76
-10	5/8	5/8 - 14	22.9	.90	21.1	.83
-12	3/4	3/4 - 14	26.9	1.06	24.9	.98
-16	1	1 - 11	33.3	1.31	31.5	1.24
-20	1 1/4	1 1/4 - 11	42.2	1.66	40.1	1.58
-24	1 1/2	1 1/2 - 11	48.3	1.90	46.2	1.82
-32	2	2 - 11	60.4	2.38	57.9	2.28

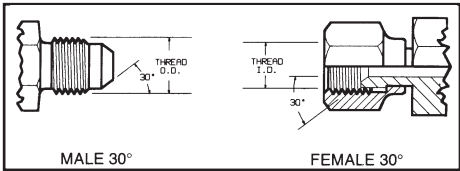
JIS TAPERED PIPE THREAD (PT)



The JIS tapered pipe thread (PT) is identical to and interchangeable with the British BSPT tapered pipe thread. However, the male end does not have a 60° chamfer and will only seal when the threads are crushed together in an appropriate JIS or BSP port.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			mm	in	mm	in
-2	1/8	1/8-28	9.4	.37	8.1	.32
-4	1/4	1/4-19	13.7	.53	12.4	.49
-6	3/8	3/8-19	17.2	.68	16.0	.62
-8	1/2	1/2-14	21.5	.84	19.8	.77
-10	5/8	5/8-14	23.1	.91	20.6	.81
-12	3/4	3/4-14	26.9	1.06	25.4	1.00
-16	1	1-11	34.0	1.34	31.8	1.25
-20	1 1/4	1 1/4-11	42.6	1.68	40.4	1.59
-24	1 1/2	1 1/2-11	48.5	1.90	46.2	1.81
-32	2	2	60.4	2.37	58.2	2.29

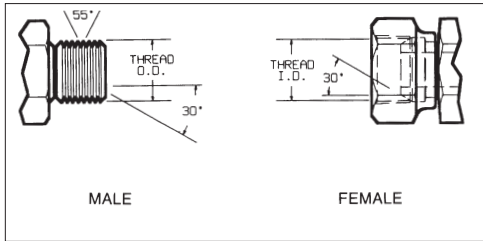
JIS 30° FLARE WITH PARALLEL PIPE THREADS (PF)



This Japanese connector is similar to the American 37° JIC flare except for the 30° seat angle. The straight (parallel) pipe threads are the same as BSPP.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			mm	in	mm	in
-2	1/8	1/8-28	9.4	.37	8.1	.32
-4	1/4	1/4-19	13.7	.53	12.4	.49
-6	3/8	3/8-19	17.2	.68	16.0	.62
-8	1/2	1/2-14	21.5	.84	19.8	.77
-10	5/8	5/8-14	23.1	.91	20.6	.81
-12	3/4	3/4-14	26.9	1.06	25.4	1.00
-16	1	1-11	34.0	1.34	31.8	1.25
-20	1 1/4	1 1/4-11	42.6	1.68	40.4	1.59
-24	1 1/2	1 1/2-11	48.5	1.90	46.2	1.81
-32	2	2	60.4	2.37	58.2	2.29

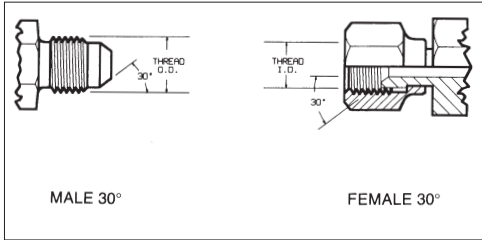
JIS 30° MALE INVERTED SEAT W/ PARALLEL PIPE THREADS



The JIS connector is similar to, and can be interchanged with, BSPP parallel connections. Thread conforms to JIS B 0202.

Dash Size	Inch Size	Thread	Male Thread O.D.		Female Thread I.D.	
			mm	in	mm	in
-4	1/4	1/4-19	13.7	.54	12.4	.49
-6	3/8	3/8-19	17.2	.68	16.0	.63
-8	1/2	1/2-14	21.5	.85	19.8	.78
-12	3/4	3/4-14	26.9	1.06	25.4	1.00
-16	1	1-11	34.0	1.34	31.8	1.25
-20	1 1/4	1 1/4-11	42.6	1.68	40.4	1.59
-24	1 1/2	1 1/2-11	48.5	1.91	46.2	1.82
-32	2	2-11	60.4	2.38	58.2	2.29

JAPANESE KOMATSU 30° FLARE W/ METRIC THREADS

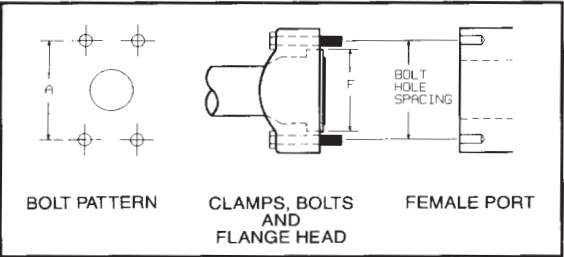


Used extensively on Komatsu equipment, this 30° flare connector has parallel metric threads and is sometimes confused with JIS 30° flare which has parallel pipe threads.

Dash No.	Metric Size Equiv.	Metric Thread	Male Thread O.D.		Female Thread I.D.	
			mm	in	mm	in
-6	9	M18 x 1.5	18	.71	16.5	.65
-8	12	M22 x 1.5	22	.87	20.5	.82
-10	16	M24 x 1.5	24	.94	22.5	.88
-12	19	M30 x 1.5	30	1.18	28.5	1.12
-16	25	M33 x 1.5	33	1.30	31.5	1.24
-20	32	M36 x 1.5	36	1.42	34.5	1.36
-24	38	M42 x 1.5	42	1.65	40.5	1.59

SAE J518-CODE 61 AND CODE 62 4-BOLT FLANGES

NOTES



This connection is commonly used world wide to connect larger sizes of hose and tubing (3/4" to 3") in fluid power systems.

An o-ring, inserted into a ring groove in the flange head seals on a smooth face female port, and is held in place by two clamp halves (or a one piece clamp) which are held tight by four bolts located in a rectangular pattern.

J518 flanges come in two pressure classes. The standard series, Code 61, which goes to 3,000 psi and the high pressure series, Code 62, where all the sizes are rated at 6,000 psi.

J518 is interchangeable with ISO 6141, DIN 20066 and JIS B 8363, except for the bolt sizes.

SAE Code 61-Standard Series

Dash Size	Inch Size	Bolt Size	Flange O.D. "F" ± .010		Bolt Spacing "A" ± .010		Code 61 Max Working Pressure PSI
			mm	in	mm	in	
-8	1/2	5/16-18 x 1 1/4	30.2	1.19	38.1	1.50	5000
*10	5/8	METRIC	34.0	1.34	-	-	
-12	3/4	3/8-16 x 1 1/4	38.1	1.50	47.6	1.88	5000
-16	1	3/8-16 x 1 1/4	44.4	1.75	52.4	2.06	5000
-20	1 1/4	7/16-14 x 1 1/2	50.8	2.00	58.7	2.31	4000
-24	1 1/2	1/2-13 x 1 1/2	60.3	2.38	69.8	2.75	3000
-32	2	1/2-13 x 1 1/2	71.4	2.81	77.8	3.06	3000
-40	2 1/2	1/2-13 x 1 3/4	84.1	3.31	88.9	3.50	2500
-48	3	5/8-11 x 1 3/4	101.6	4.00	106.4	4.19	2000

*Non SAE Size, common on Komatsu Equipment

SAE Code 62-High Pressure Series

Dash Size	Inch Size	Bolt Size	Flange O.D. "F" ± .010		Bolt Spacing "A" ± .010		Code 62 Max Working Pressure PSI
			mm	in	mm	in	
-8	1/2	5/16-18 x 1 1/4	31.7	1.25	40.5	1.59	6000
-12	3/4	3/8-16 x 1 1/2	41.3	1.63	50.8	2.00	6000
-16	1	7/16-14 x 1 3/4	47.6	1.88	57.1	2.25	6000
-20	1 1/4	1/2-13 x 1 3/4	54.0	2.13	66.7	2.63	6000
-24	1 1/2	5/8-11 x 2 1/4	63.5	2.50	79.4	3.13	6000
-32	2	3/4-10 x 2 3/4	79.4	3.13	96.8	3.81	6000

NOTES

NOTES

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