BRENNAN

QUICK REFERENCE PRODUCT GUIDE

HYDRAULIC AND PNEUMATIC FITTINGS AND ADAPTERS

QUICK GUIDE INDEX

1 PARTS NOMENCLATURE / GLOSSARY OF DESCRIPTIONS
2-3 O-RING FACE SEAL FITTINGS
3-6 TUBE FITTINGS & ADAPTERS
7-8 HYDRAULIC FLANGES / ACCESSORIES
8 FLARELESS BITE TYPE FITTINGS
9 INSTRUMENTATION
10-11 CONVERSION ADAPTERS
11-12 METRIC BITE TYPE
13 FLARE-O
14-15 PUSH-TO-CONNECT
15 TEST POINTS
15 SPECIALS

THREAD CHARTS • JIC – SAE • METRIC/INTERNATIONAL

DASH SIZE	2	3	4	5	6	7	8	10	12	14	16	20	24	32	40	48
Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 ¼	1 ½	2	2 ½	3
Hose I.D.	1/8	3/16	1/4	5/16	3/8		1/2	5/8	3/4	7/8	1	1 ¼	1 ½	2	2 ½	3
JIC 37-Flare Thread	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 ½-12	3-12	3 ½-12
SAE O-Ring Thread	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 ½-12		
NPTF Pipe Thread	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 ½	1 ¼-11 ½	1 ½-11 ½	2-11 ½	2 ½-8	3-8
NPSM Swivel Thread	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 ½	1 ¼-11 ½	1 ½-11 ½	2-11 ½		
Face Seal Thread			9/16-18		11/16-16		13/16-16	1-14	1 3/16-12	1 5/16-12	1 7/16-12	1 11/16-12	2-12	2 ½-12		
Code 61 Flange Head O.D.							1.19		1.50		1.75	2.00	2.38	2.81	3.31	4.00
Code 62 Flange Head O.D.							1.25		1.62		1.88	2.12	2.50	3.12		
British Thread BSPP/BSPT	1/8-28		1/4-19		3/8-19		1/2-14		3/4-14		1-11	1 ¼-11	1 ½-11			
Brake Thread			7/16-24		17/32-24		11/16-20	13/16-18	1-18							
SAE 45-Flare Thread	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-24	3/4-16	7/8-14	1 1/16 -14							
Inverted Flare Thread	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1 1/16 -16							
Compression Thread	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 ½-12		

METRIC THREAD	10	12	14	16	18	20	22	24	26	27	30	33	36	42	48
	M 10x1.0	M 12x1.5	M 14x1.5	M 16x1.5	M 18x1.5	M 20x1.5	M 22x1.5	M 24x1.5	M 26x1.5	M 27x2.0	M 30x2.0	M 33x2.0	M 36x2.0	M 42x2.0	M 48x2.0

PARTS NOMENCLATURE

Brennan Industries, Inc.'s hydraulic tube fitting and adapter part numbers are constructed from symbols that identify the series, size, material and type of product. When ordering part numbers, begin by listing the series followed by the size and the material suffix. Sizes are measured in sixteenths of an inch (example: 4/16 or 4). The standard product is produced in steel and requires no material suffix. If ordering stainless steel products, add the suffix SS, and if you are ordering brass products, add the suffix B. Metric Bite Type Fittings are called out by tube size (in millimeters) i.e. 20mm Tube (S20), while Metric Port Fittings are called out by Thread O.D. and Thread Pitch (in millimeters) i.e. 30x2.0 or 30x1.5. BSPP fittings, while different from U.S. threads are still measured fractionally and are therefore called out by sixteenths of an inch.

2501-08-08-SS
This is a 2501 Series with a 1/2" male JIC tube and a 1/2" male pipe thread. The part number also indicates that the product is made of stainless steel.

2501-12-08-FG
This is a 2501 Series with a 3/4" male JIC tube and a 1/2" male pipe thread. The part number also indicates that the product was produced as a forged one-piece construction, steel adapter.

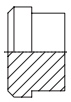
2501-04-04-B
This is a 2501 Series with a 1/4" male JIC tube and a 1/4" male pipe thread. The part number also indicates that the product is made of brass.

GLOSSARY OF DESCRIPTIONS

AORB: Adjustable O-ring Boss (NWO)
B: Brass
BHLN: Bulk Head Lock Nut
BSPP: British Standard Pipe Parallel (G Thread)
BSPPS: British Standard Pipe Parallel Swivel
BSPT: British Standard Pipe Taper (R Thread)
BT: Bite Type
BT: Bored Through Connector in Double Ferrule Series
BTS: Bite Type Swivel
BULN: Back-up Lock Nut (NWO)
BW: Butt Weld
C: (before number) Bite Type
C: (after number) Cap
COR: Captive O-Ring (Style DIN 3852, Form E)
C HEX: Width Across the Wrench
D: Aluminum
DKO: 24° Sealing Cone (Female Swivel) with O-Ring
E: Extra Light (Metric Fittings)
F: (before number) Flare-O
FBSPP: Female British Standard Pipe Parallel
FBSPT: Female British Standard Pipe Tapered
FBSPPS: Female British Standard Pipe Parallel Swivel
FFS: Female Face Seal
FFSS: Female Face Seal Swivel
FG: Forged Flats of the Hex
FIF: Female Inverted Flare
FJ: Female J.I.C.
FJIS: Female J.I.S.
FJS: Female J.I.C. Swivel
FK: Female Komatsu
FMS: Female Metric Swivel
FO: Flare-O
FORB: Female O-ring Boss
FP: Female Pipe
FPS: Female Pipe Swivel
FS: Face Seal
FSAES: Female SAE Swivel, 45° Seat
H: Hollow Hex O-ring Plug
HB: Hose Barb
HP: Hollow Hex Pipe Plug
I.D.: Inside Dimension
JIC: Joint Industrial Council, 37° Flare
JIS: Japanese Industrial Standard, 30° Flare
L: Light (7005-04-L06-12)
L: Long (6400-L-20-20-O)
LGTH: Length
LH: Large Hex
LL: Extra Long Drop
LLL: Extra Extra Long
LLLL: Extra Extra Extra Long
MAORB: Male Adjustable O-ring Boss (NWO)
MBT: Metric Bite Type
MBSPP: Male British Standard Pipe Parallel
MBSPPADJ: Male British Standard Pipe Parallel Adjustable
MBSPPAORB: Male British Standard Pipe Parallel Adjustable O-ring Boss
MBSPT: Male British Standard Pipe Tapered
MFS: Male Face Seal
MIFS: Male Inverted Flare Swivel
MJ: Male J.I.C.
MJIS: Male J.I.S.
MKOM: Male Komatsu
M.M.: Millimeters
MM: Male Metric
MMADJ: Male Metric Adjustable
MMAORB: Male Metric Adjustable O-ring Boss use with ISO 6149
MMORR: Male Metric O-Ring and Retaining Ring
MORB: Male O-ring Boss
MP: Male Pipe
MS: Metric Swivel
N: Used as prefix for Instrumentation fittings series (N2404-04-04-SS)
N: Extended Length (5404-N-02x0.750)
N: Locknut for NWO Assembly (0306-N-03)
NBR: Assembled with Nut and Bite Ring
NPSM: American (formerly National) Pipe Straight Mechanical
NPTF: American (formerly National) Pipe Taper Fuel
NWO: Nut Washer O-ring (MAORB)
O: O-Ring
O.D.: Outside Dimension
ORB: O-Ring Boss
PC DOT: SAE DOT Push to Connect Fittings for Vehicle Applications
PCNY: Push to Connect Nylon Fittings
PCNB: Push to Connect Nickel-Plated Brass Fittings
PL: Push Lock
PLATE MAX: Recommended Maximum Plate Thickness After Assembling the Bulkhead with the 306 Locknut, 318 Nut & 319 Sleeve
P: Plug
S: Heavy (7005-04-S06-14)
S: Steel
SAE: Society of Automotive Engineering
SHP: Square Head Plug
SS: Stainless Steel
TS: Tube Spud
V: Versa Flare
Y FLATS: Width Across the Wrench Flats

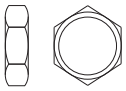
O-RING FACE SEAL FITTINGS

(520112)



FS0304-C
Cap Assembly Insert

(520118)

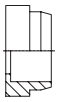


FS0306
Bulkhead Lock Nut

(520110)

FS0318
Nut

(520115)

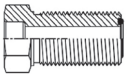


FS0319
Sleeve

(520104)

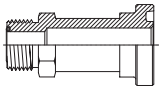
FS0403
Bore-MFS Straight

FS0403-TS
Face Seal Spud

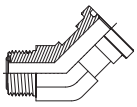


FS0406
Bore-FS Bulkhead

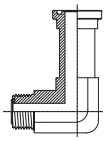
(520118)



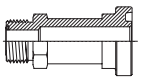
FS1700 MFS-Flange
Straight Code 61



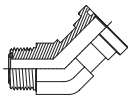
FS1703 MFS-Flange 45°
Code 61



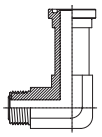
FS1704 MFS-Flange 90°
Code 61



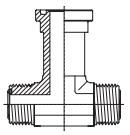
FS1800 MFS-Flange
Straight Code 62



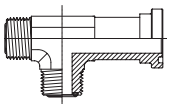
FS1803 MFS-Flange 45°
Code 62



FS1804 MFS-Flange 90°
Code 62

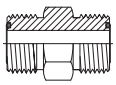


FS1805 MFS-MFS-
Flange Tee Code 62

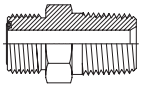


FS1806 MFS-Flange
Tee Code 62-MFS

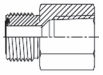
(520101)



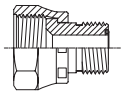
FS2403
MFS-MFS Straight



FS2404
MFS-MP Straight



FS2405
MFS-FP Straight

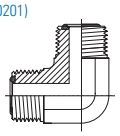


FS2406 FFS-MFS
Tube End Reducer

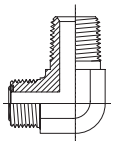
(520109)

FS2408
MFS Plug

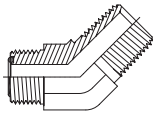
(520201)



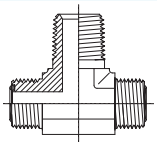
FS2500
MFS-MFS 90°



FS2501
MFS-MP 90°

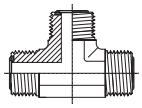


FS2503
MFS-MP 45°

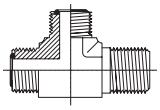


FS2601
MFS-MFS-MP Tee

(520401)

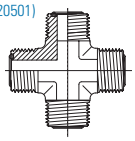


FS2603
MFS-MFS-MFS Tee



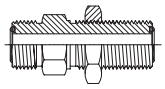
FS2605
MFS-MP-MFS Tee

(520501)



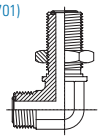
FS2650 MFS-MFS-MFS-
MFS Cross

(520601)



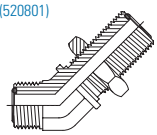
FS2700* MFS-MFS-
Bulkhead Union

(520701)



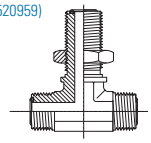
FS2701* MFS-MFS
Bulkhead 90°

(520801)



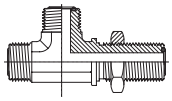
FS2702* MFS-MFS
Bulkhead 45°

(520959)

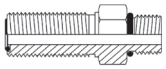


FS2703* MFS-MFS-MFS
Bulkhead Tee

(520958)



FS2704* MFS-MFS-MFS
Bulkhead Tee



FS2764 FS Bulkhead-
MORB Straight

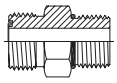
(J515 Type CH)

FS4000
Buna O-Ring

FS4001
Viton O-Ring

FS6001
Sliver Braze Ring

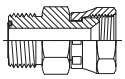
(520120)



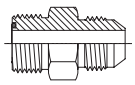
FS6400-O
MFS-MORB Straight

(520122)

FS6400-L-O MFS-MORB
Straight Long



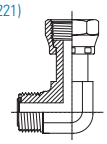
FS6402
MFS-FJS Straight



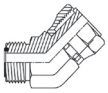
FS6403
MFS-MJ Straight

FS6410
FORB-MFS

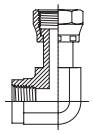
(520221)



FS6500
MFS-FFSS 90°

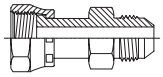


FS6502
MFS-FFSS 45°

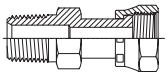


FS6503
FP-FFSS 90°

(521520)

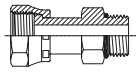


FS6504
FFSS-MJ Straight

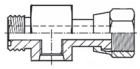


FS6505
MP-FFSS Straight

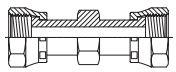
(521520)



FS6540
FFSS-MORB Straight

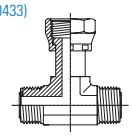


FS6564
MFS FFSS-FORB Tee



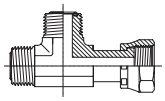
FS6565
FFSS-FFSS -Straight

(520433)



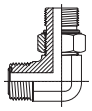
FS6600 MFS-MFS-FFSS
Branch Tee

(520432)



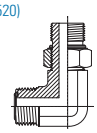
FS6602 MFS-FFSS-MFS
Run Tee

(520220)

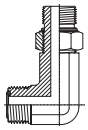


FS6801-NWO
MFS-MAORB 90°

(521520)

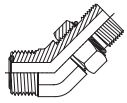


FS6801-L-NWO MFS-
MAORB 90° Long



FS6801-LL-NWO MFS-
MAORB 90° X-Long

(520320)



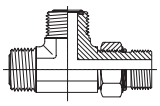
FS6802-NWO
MFS-MAORB 45°

(520429)

FS6803-NWO
MFS-MFS-MAORB Tee

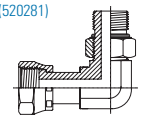
O-RING FACE SEAL FITTINGS *CONTINUED*

(520428)

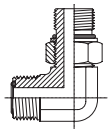


FS6804-NWO
MFS-MAORB-MFS Tee

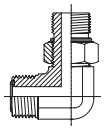
(520281)



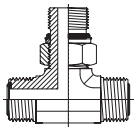
FS6809-NWO
FFSS-MAORB 90°



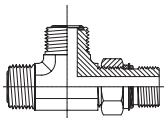
FS7202-NWO
MFS-MBSPP 90°



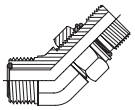
FS7205-NWO
MMAORB 90° Elbow



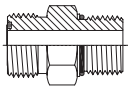
FS7210-NWO
MFS-MFS-MMAORB Tee



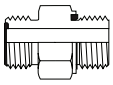
FS7215-NWO
MFS-MMAORB-MFS Tee



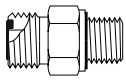
FS7300-NWO
MFS-MMAORB 45° Elbow



FS7640-0
MFS-MMORB ISO 614



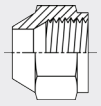
FS7701
MFS-MM STRAIGHT
WITH CAPTIVE SEAL



FS7709
MFS-MBSPP STRAIGHT
WITH CAPTIVE SEAL

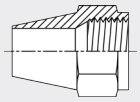
* Insert "-LN" in part number to include lock nut when ordering bulkhead fittings. Example: FS2700-LN-04-04.

TUBE FITTINGS & ADAPTERS



0302
Short Nut

(070111)

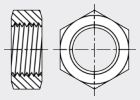


0304
Standard Nut

(070112)

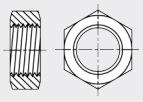
0304-C
JIC Cap Nut

(070118/MS #51860)



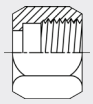
0306
BHLN

(070117)



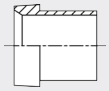
0306-N
BULN

(070110)

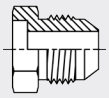


0318
JIC Tube Nut

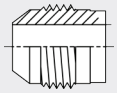
(070115)



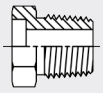
0319
JIC Tube Sleeve



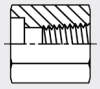
0403
Bore-MJ Straight



0403-TS
MJ Tube Spud

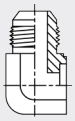


0404
Bore-MP Straight

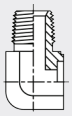


0405
Bore-FP Straight

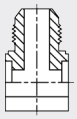
0406 BORE-MJ
Bulkhead Straight



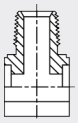
0500
Bore-MJ 90°



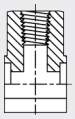
0501
Bore-MP 90°



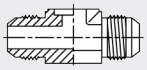
0600
Bore-Bore-MJ Tee



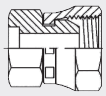
0601
Bore-Bore-MP Tee



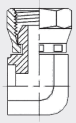
0602
Bore-Bore-FP



0702
Bore-MJ-MJ Tee

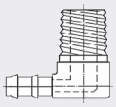


0800
Bore-FPS Straight

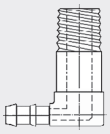


0801
Bore-FPS 90°

0900
Bore-FJS Straight

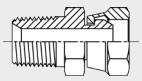


0954
HB-MP 90° Elbow



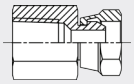
0954-L
HB-MP 90° Elbow Long

(140130)



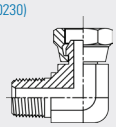
1404
MP-FPS Straight

(140131)

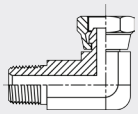


1405
FP-FPS Straight

(140230)

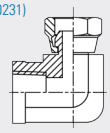


1501
MP-FPS 90°



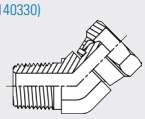
1501-L
MP-FPS 90° Long

(140231)



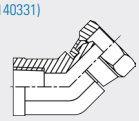
1502
FP-FPS 90°

(140330)

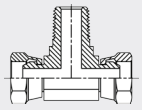


1503
MP-FPS 45°

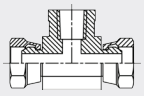
(140331)



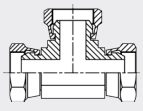
1504
FP-FPS 45°



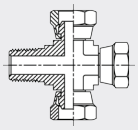
1601
MP-FPS-FPS Tee



1602
FP-FPS-FPS Tee



1603
FPS-FPS-FPS Tee



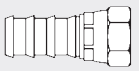
1604
MP-FPS-FPS-FPS Cross

(PL = Push Lock) Brass

2111
PL-FJS Straight

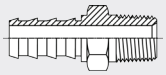
TUBE FITTINGS & ADAPTERS *CONTINUED*

BRASS



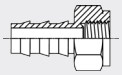
2112
PL-FSAES Straight

BRASS



2113
PL-MP Straight

BRASS

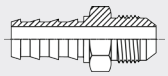


2114
PL-FIF Straight

BRASS

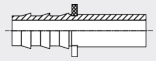
2115
PL-MIFS Straight

BRASS



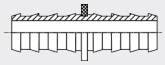
2116
PL-MSAE Straight

BRASS



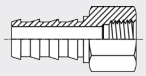
2117
PL-Stem Straight

BRASS



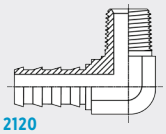
2118
PL-PL Straight

BRASS



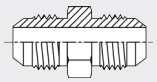
2119
PL-FP Straight

BRASS



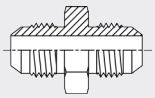
2120
PL-MP 90° Elbow

(070101/MS#51501)



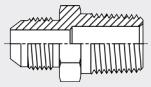
2403
MJ-MJ Straight

(070119/MS#51519)

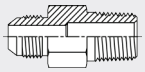


2403-LH
MJ-MJ Straight Large Hex

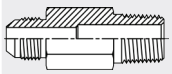
(070102/MS#51500)



2404
MJ-MP Straight

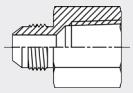


2404-L
MJ-MP Straight Long

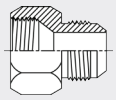


2404-LL
MJ-MP Straight X-Long

(070103/MS#51503)

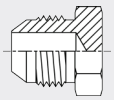


2405
MJ-FP Straight



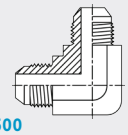
2406
FJ-MJ Straight Reducer

(070109/MS#51518)



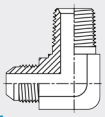
2408
MJ Plug

(070201/MS#51505)



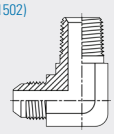
2500
MJ-MJ 90°

(070202/MS#51504)



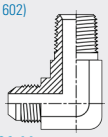
2501
MJ-MP 90°

(071502)

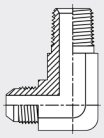


2501-L
MJ-MP 90° Long

(071602)

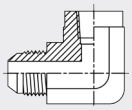


2501-LL
MJ-MP 90° X-Long



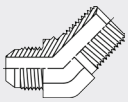
2501-LLL
MJ-MP 90° XX-Long

(070203/MS#51506)

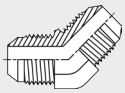


2502
MJ-FP 90°

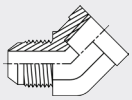
(070302/MS#51508)



2503
MJ-MP 45°

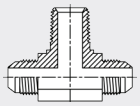


2504
MJ-MJ 45°



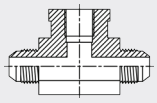
2505
MJ-FP 45°

(0707425/MS#51512)



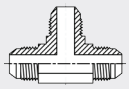
2601
MJ-MJ-MP Tee

(070427/MS#51513)



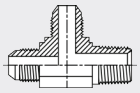
2602
MJ-MJ-FP Tee

(070401/MS#51510)



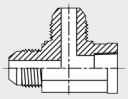
2603
MJ-MJ-MJ Tee

(070424/MS#51511)

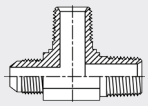


2605
MJ-MP-MJ Tee

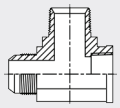
(070426/MS#51514)



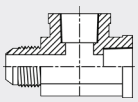
2606
MJ-FP-MJ Tee



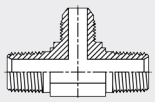
2607
MJ-MP-MP Tee



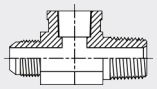
2608
MJ-FP-MP Tee



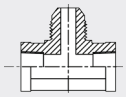
2609
MJ-FP-FP Tee



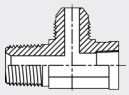
2610
MP-MP-MJ Tee



2611
MJ-MP-FP Tee

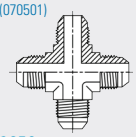


2612
FP-FP-MJ Tee

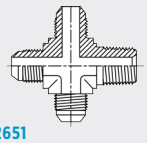


2613
MP-FP-MJ Tee

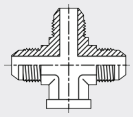
(070501)



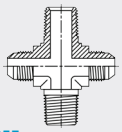
2650
MJ-MJ-MJ-MJ Cross



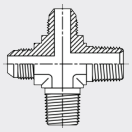
2651
MJ-MP-MJ-MJ Cross



2652
MJ-MJ-MJ-FP Cross

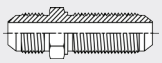


2653
MJ-MJ-MP-MP Cross



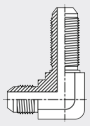
2654
MJ-MP-MJ-MP Cross

(070601/MS#51520)



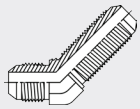
2700
MJ-MJ Bulkhead Straight

(070701/MS#51507)



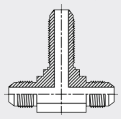
2701
MJ-MJ Bulkhead 90°

(070801/MS#51509)



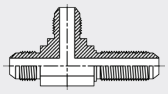
2702
MJ-MJ Bulkhead 45°

(0707959/MS#51515)

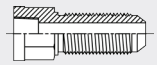


2703 MJ-MJ-MJ
Bulkhead Branch Tee

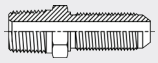
(070958/MS#51516)



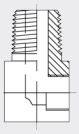
2704 MJ-MJ-MJ
Bulkhead Run Tee



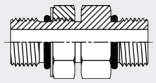
2705 FP-MJ
Bulkhead Straight



2706 MP-MJ
Bulkhead Straight



3051
MP-FP Low Profile 90°



3474-NWO
MAORB-ORB Straight

3474-LLL-NWO
MAORB-MORB XLNG

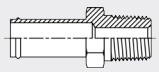
(J515 Type I CH/MS#28778)

4000
Buna O-Ring

(J515 Type I I I H K)

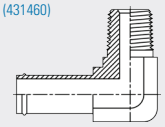
4001
Viton O-Ring

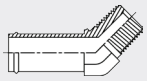
(430160)

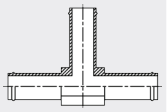


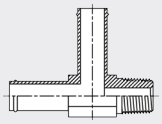
4404
HB-MP Straight

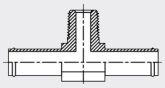
TUBE FITTINGS & ADAPTERS *CONTINUED*

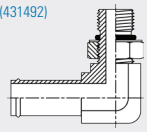
(431460)

4501
HB-MP 90°

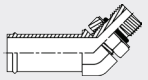
(430360)

4503
HB-MP 45°

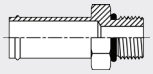

4504
HB-HB-HB Tee

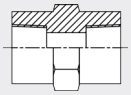

4505
HB-MP-HB Tee

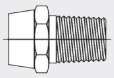

4506
HB-HB-MP Tee

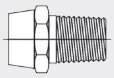
(431492)

4601-NWO
HB-MAORB 90°

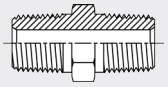
(430392)

4603-NWO
HB-MAORB 45°

(430192)

4604-O
HB-MORB Straight

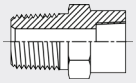
(140138)

5000
FP-FP Straight

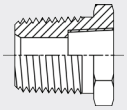

5304 MP-BW Weld-On
Fitting 304 Stainless


5316 MP-BW Weld-On
Fitting 316 Stainless

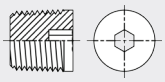
(140137)

5404
MP-MP Hex Nipple

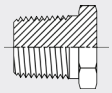
5404-N MP-MP Straight
Nipple Long

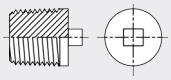
(140139)

5405
MP-FP Straight Expander

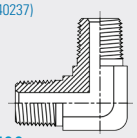
(140140)

5406
MP-FP Reducer Bushing

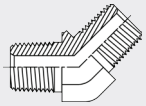
5406-C
Pipe Cap

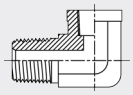

5406-HP
Hollow Hex Pipe Plug

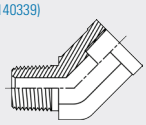
(130109E)

5406-P
External Hex Pipe Plug

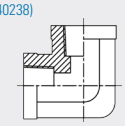
(130109A)

5406-SHP
Square Head Pipe Plug

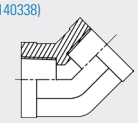
(140237)

5500
MP-MP 90° Elbow

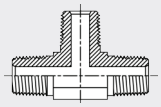

5501
MP-MP 45°

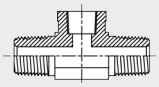
(140239)

5502
MP-FP 90° Street Elbow

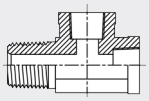
(140339)

5503
MP-FP 45° Street Elbow

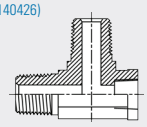
(140238)

5504
FP-FP 90° Elbow

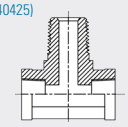
(140338)

5505
FP-FP 45° Elbow

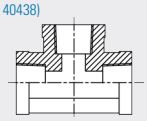
(140437)

5600
MP-MP-MP Tee

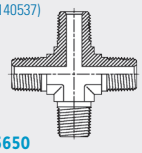
(140427)

5601
MP-MP-FP Tee

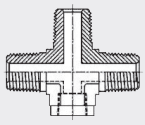
(140424)

5602
MP-FP-FP Street Tee

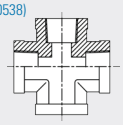
(140426)

5603
MP-FP-MP Tee

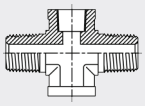
(140425)

5604
FP-FP-MP Branch Tee

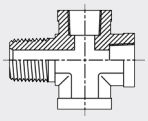
(140438)

5605
FP-FP-FP Tee

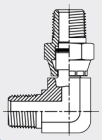
(140537)

5650
MP-MP-MP-MP Cross

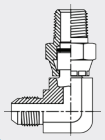

5651
MP-MP-MP-FP Cross

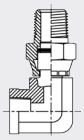
(140538)

5652
FP-FP-FP-FP Cross


5653
MP-MP-FP-FP Cross

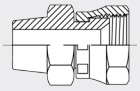

5655
MP-FP-FP-FP Cross

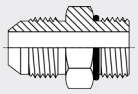

5700
MP-MPS 90°

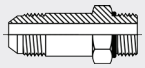

5701
MJ-MPS 90°


5702
FP-MPS 90°

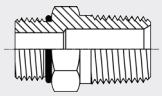
6000
Back-Up Washer

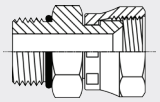

6316
FJS-Weld Straight

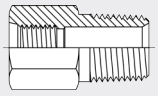
(070120/MS#51525)

6400-O
MJ-MORB Straight

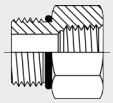
(071720/MS#51526)

6400-L-O
MJ-MORB Straight Long

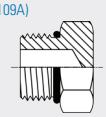
6400-LL-O
MJ-MB-XX Long Hex


6401-O
MORB-MP Straight


6402-O
MORB-FJS Straight

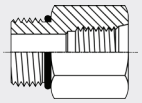

6404
FORB-MP Straight

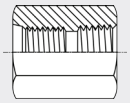

6405-O
MORB-FP Straight

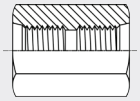
(090109A)

6408-O
MORB External Hex Plug

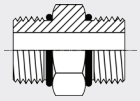
(090109B)

6408-H-O
MORB Hollow Hex Plug

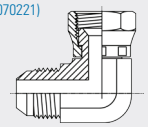

6410-O MORB-FORB
Straight Reducer


6420
FORB-FP Straight

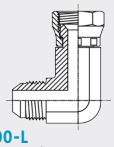

6425
FORB-FORB Straight


6464-O
MORB-MORB Straight

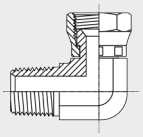
6464-L-O MORB-MORB
Long Straight

(070221)

6500
MJ-FJS 90°

TUBE FITTINGS & ADAPTERS *CONTINUED*

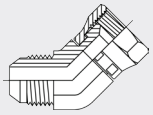


6500-L
MJ-FJS 90˚ Long

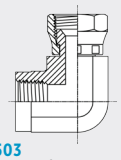


6501
MP-FJS 90˚

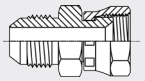
(070321/MS#51522)



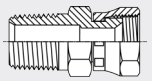
6502
MJ-FJS 45˚



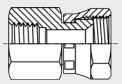
6503
FP-FJS 90˚



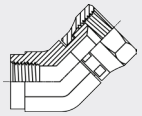
6504
MJ-FJS Straight



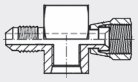
6505
MP-FJS Straight



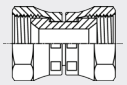
6506
FP-FJS Straight



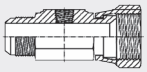
6507
FP-FJS 45˚



6564 Test Point
MJ-FJS Straight w/04
FORB In HEX

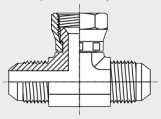


6565
FJS-FJS Straight



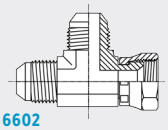
6574 Test Point
MJ-FJS Straight w/04 FP
In HEX

(070433/MS#51524)

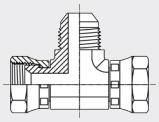


6600
MJ-MJ-FJS Tee

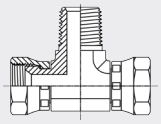
(070432/MS#51524)



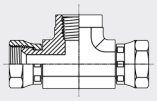
6602
MJ-FJS-MJ Tee



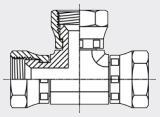
6603
FJS-FJS-MJ Tee



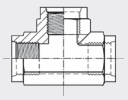
6604
FJS-FJS-MP Tee



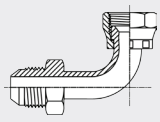
6605
FJS-FJS-FP Tee



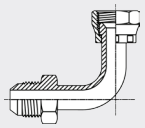
6606
FJS-FJS-FJS Tee



6660
FORB-FORB-FORB Tee

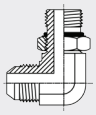


6701
MJ-FJS Swept 90˚



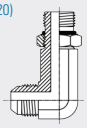
6701-L MJ-FJS
Swept 90˚ Long

(070220/MS#51527)



6801-NWO
MJ-MAORB 90˚

(071520)

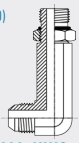


6801-L-NWO
MJ-MAORB 90˚ Long

(071620)

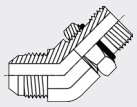
6801-LL-NWO
MJ-MAORB 90˚ X-Long

(072120)



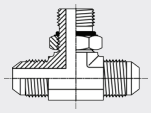
6801-LLL-NWO
MJ-MAORB 90˚ XX-Long

(070320/MS#51528)



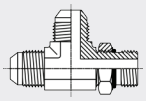
6802-NWO
MJ-MAORB 45˚

(070429/MS#51529)

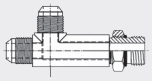


6803-NWO MJ-MJ-
MAORB Branch Tee

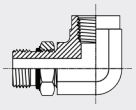
(07048/MS#51530)



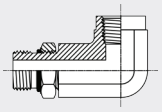
6804-NWO
MJ-MAORB-MJ Run Tee



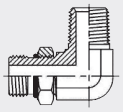
6804-L-NWO MJ-
MAORB-MJ Long Tee



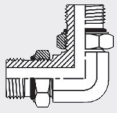
6805-NWO
MAORB-FP 90˚



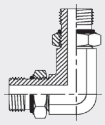
6805-L-NWO
MAORB-FP 90˚ Long



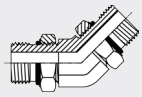
6806-NWO
MAORB-MP 90˚



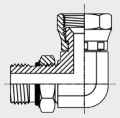
6807-NWO
MAORB-MAORB 90˚



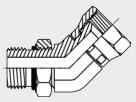
6807-LL-NWO MAORB-
MAORB 90˚ X-Long



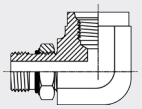
6808-NWO
MAORB-MAORB 45˚



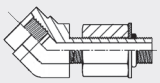
6809-NWO
MAORB-FJS 90˚



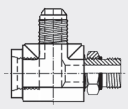
6810-NWO
MAORB-FJS 45˚



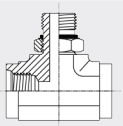
6815-NWO
MAORB-FORB 90˚



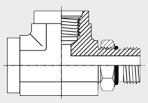
6818-NWO
FORB-MAORB 45˚



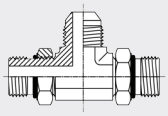
6820-NWO
FORB-MAORB-MJ Tee



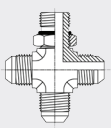
6832-NWO FORB-FORB-
MAORB Tee



6835-NWO MAORB
FORB-FORB Tee

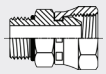


6840-NWO MAORB-
MAORB-MJ Tee



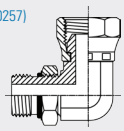
6850-NWO MJ-MJ-
MAORB-MJ Cross

(140157)



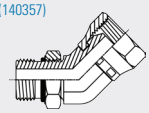
6900-O
MORB-FPS Straight

(140257)

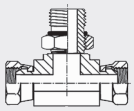


6901-NWO
MAORB-FPS 90˚

(140357)



6902-NWO
MAORB-FPS 45˚

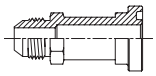


6911-NWO
FPS-FPS-MAORB Tee

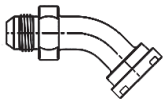
V0318
JIC-Flareless Nut

V0319
JIC-Flareless Sleeve

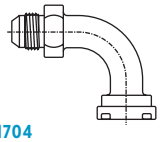
HYDRAULIC FLANGES / ACCESSORIES



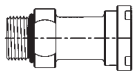
1700
MJ-Flange Straight
Code 61



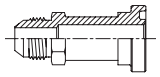
1703
MJ-Flange 45˚
Code 61



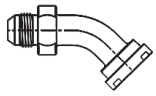
1704
MJ-Flange 90˚
Code 61



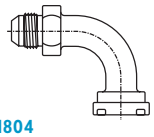
1710
MB-Flange Straight
Code 61



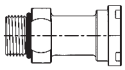
1800
MJ-Flange Straight
Code 62



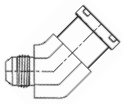
1803
MJ-Flange 45˚
Code 62



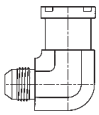
1804
MJ-Flange 90˚
Code 62



1810
MB-Flange Straight
Code 62

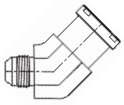


1703FG
MJ-Flange 45˚
Code 61

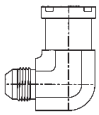


1704FG
MJ-Flange 90˚
Code 61

1724
Flange Plug
Code 61

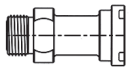


1803FG
MJ-Flange 45˚
Code 62

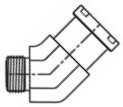


1804FG
MJ-Flange 90˚
Code 62

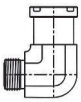
1824
Flange Plug
Code 62



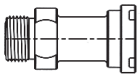
FS1700
MFS-Flange Straight
Code 61



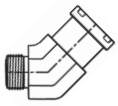
FS1703FG
MFS-Flange 45˚
Code 61



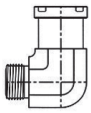
FS1704FG
MFS-Flange 90˚
Code 61



FS1800
MFS-Flange Straight
Code 62



FS1803FG
MFS-Flange 45˚
Code 62



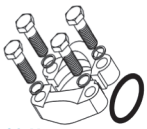
FS1804FG
MFS-Flange 90˚
Code 62

1900-61
Hex Head
Mounting Kit

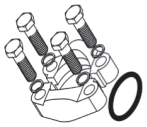
1900-62
Hex Head Mounting Kit

1900-M
Hex Head Mounting
Kit Metric

1901
Split Flange Kit Code 61

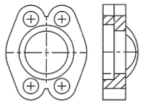


1901-M
Split-Flange Kit Code 61
(Metric Bolt Holes)

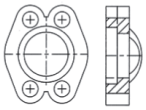


1902
Split Flange Kit Code 62

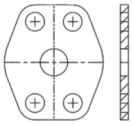
1902-M
Split-Flange Kit Code 62
(Metric Bolt Holes)



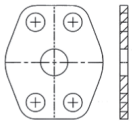
1903/1904-61
Captive Flange



1903/1904-62
Captive Flange



1914-61
Connector Plate



1914-62
Connector Plate

1927/1928-61
NPTF Port Block

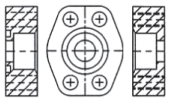
1927/1928-62
NPTF Port Block

1929/1930-61
SAE Port Block

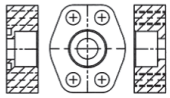
1929/1930-62
SAE Port Block

1933/1934 Flat Socket
Block - Pipe 500 psi

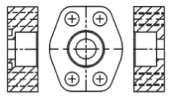
1935/1936-61 Flat
Socket Block - Pipe



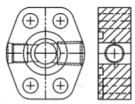
1935/1936-62 Flat
Socket Block - Pipe



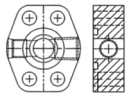
1937/1938-61 Flat
Socket Block - Tube



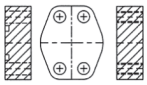
1937/1938-62 Flat
Socket Block - Tube



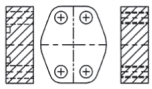
1940-61
Gauge Port Spacer



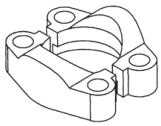
1940-62
Gauge Port Spacer



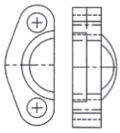
1942/1943-61
Plug Block



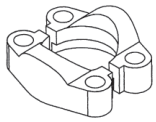
1942/1943-62
Plug Block



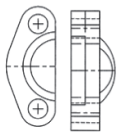
1951-61
Split Flange



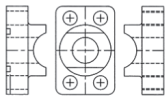
1951-H
Flange Half



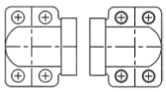
1952-62
Split Flange



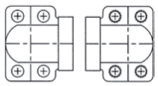
1952-H
Flange Half



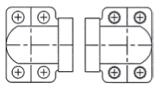
1959-P
Saddle Connector



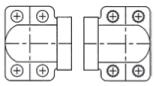
1965-61
SAE Elbow



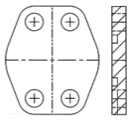
1965-62
SAE Elbow



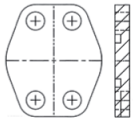
1967-61
NPTF Elbow



1967-62
NPTF Elbow



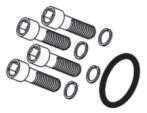
1979-61
Shipping Plate



1979-62
Shipping Plate

1990-61 Socket Head
Mounting Kit

HYDRAULIC FLANGES / ACCESSORIES CONTINUED

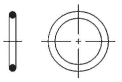


1990-62
Socket Head Mounting Kit

1990-M
Socket Head Mounting Kit Metric

3300/3301-61 Tube Braze Flange Head Connector

3300/3301-62 Tube Braze Flange Head Connector



4005
Flange O-Ring

ADDITIONAL AVAILABLE PRODUCTS

1910, CODES 61 & 62 Tube Weld Socket Flange Connector
1911, CODES 61 & 62 Pipe Weld Socket Flange Connector
1912-O, CODE 61 SAE Flange Connector
1912-P, CODE 61 NPTF Flange Connector
1915, 1917 & 1919, CODES 61 & 62 Butt Weld Connector-Various Pipe Schedules

FLARELESS BITE TYPE FITTINGS

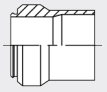
(080112/MS#51590)

C0304-C
Cap Nut

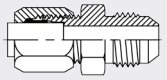
(080110/MS#51823)

C0318
Nut

(080115A/MS#51825A)

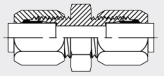


C0319
Ferrule



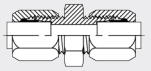
C2402
BT-MJ Straight

(080101/MS#51814)



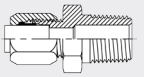
C2403
BT-BT Tube Union Straight

(080119/MS#51856)



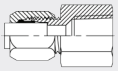
C2403-LH
BT-BT Tube Union Large Hex Straight

(080102/MS#51819)

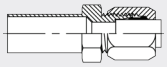


C2404
BT-MP Adapter Straight

(080103)

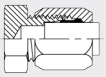


C2405
BT-FP Adapter Straight



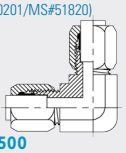
C2406
Tube-BT Reducer

(080109)



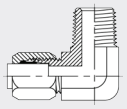
C2408
Plug

(080201/MS#51820)



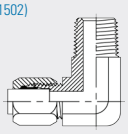
C2500
BT-BT Elbow 90˚

(080202/MS#51815)



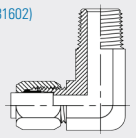
C2501
BT-MP Elbow 90˚

(081502)



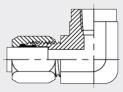
C2501-L
BT-MP Elbow 90˚ Long

(081602)



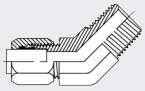
C2501-LL
BT-MP Elbow 90˚ X-Long

(080203/MS#51813)

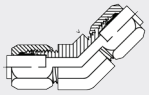


C2502
BT-FP Elbow 90˚

(080302/MS#51817)

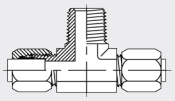


C2503
BT-MP Elbow 45˚



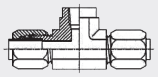
C2504
BT-BT Elbow 45˚

(080425/MS#51815)



C2601
BT-BT-MP Tee

(080427/MS#51821)

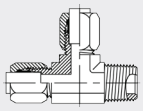


C2602
BT-BT-FP Tee

(080401/MS#51811)

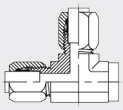
C2603
BT-BT-BT Tee

(080424/MS#51824)



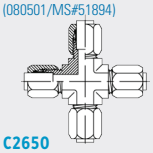
C2605
BT-MP-BT Tee

(080426/MS#51822)



C2606
BT-FP-BT Tee

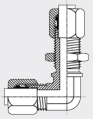
(080501/MS#51894)



C2650
BT-BT-BT-BT Cross

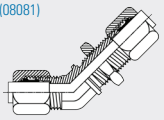
C2700
BT-BT Bulkhead Union

(080701/MS#51855)



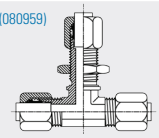
C2701
BT-BT Bulkhead Union 90˚

(08081)



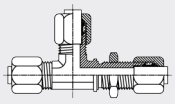
C2702
BT-BT Bulkhead Union 45˚

(080959)

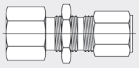


C2703 BT-BT-BT
Bulkhead Branch Tee

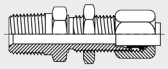
(080958)



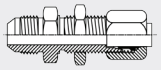
C2704
BT-BT-BT Bulkhead Tee



C2705
FP-BT Bulkhead

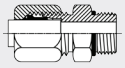


C2706
MP-BT Bulkhead



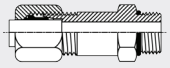
C2707
MJ-BT Bulkhead

(080120/MS#51843)



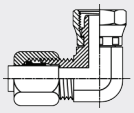
C6400-O
BT-MORB Straight

(080122)



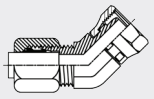
C6400-L-O
BT-MORB Long Straight

(080221/MS#51852)



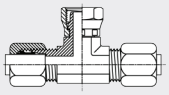
C6500
BT-BTS 90˚ Elbow

(080321)



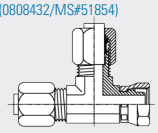
C6502
BT-BTS 45˚ Elbow

(080433/MS#51853)



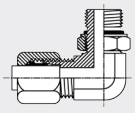
C6600
BT-BT-BTS Tee

(0808432/MS#51854)



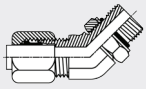
C6602
BT-BTS-BT Tee

(080220/MS#51839)



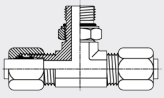
C6801-NWO
BT-MAORB 90˚

(080320/MS#51842)



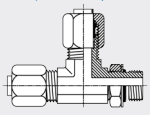
C6802-NWO
BT-MAORB 45˚

(080429/MS#51841)



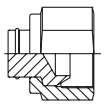
C6803-NWO
BT-BT-MAORB Tee

(080428/MS#51892)

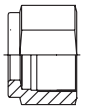


C6804-NWO
BT-MAORB-BT Tee

INSTRUMENTATION



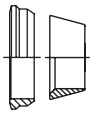
N0304
Plug



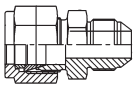
N0318
Nut

N0319-B
Back Ferrule

N0319-F
Front Ferrule

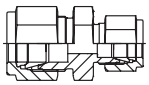


N0319-S
Ferrule Set

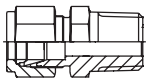


N2402
Male JIC Connector

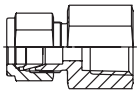
N2403
Union



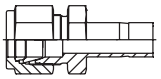
N2403
Reducing Union



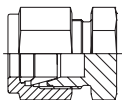
N2404
Male Connector*



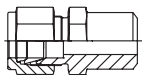
N2405
Female Connector



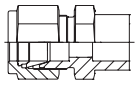
N2406
Reducer



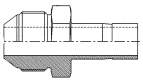
N2408
Cap



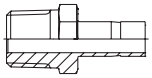
N2425 Butt Weld
Male Connector



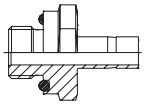
N2426 Socket Weld
Male Connector



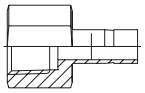
N2427
Male JIC Adapter



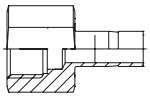
N2428
Male Adapter



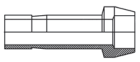
N2429
O-Seal Male Adapter



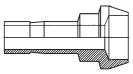
N2430
Female Adapter



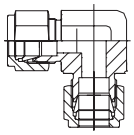
N2431
Female Gauge Adapter



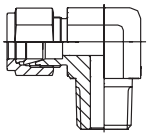
N2440
Port Connector



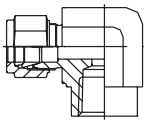
N2440
Reducing Port Connector



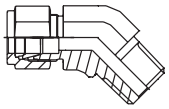
N2500
Union Elbow



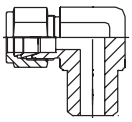
N2501
Male Elbow



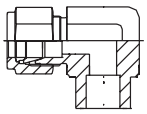
N2502
Female Elbow



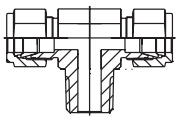
N2503
45˚ Male Elbow



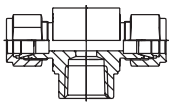
N2525
Butt Weld Male Elbow



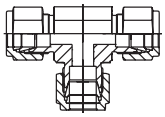
N2526
Socket Weld Male Elbow



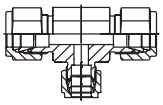
N2601
Male Branch Tee



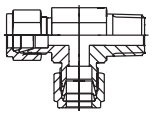
N2602
Female Branch Tee



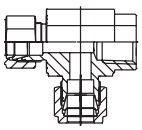
N2603
Union Tee



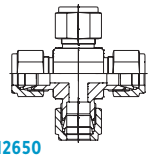
N2603
Reducing Union Tee



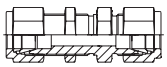
N2605
Male Run Tee



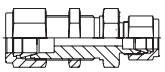
N2606
Female Run Tee



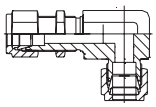
N2650
Cross



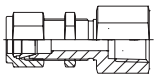
N2700-LN
Bulkhead Union



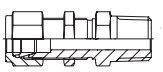
N2700-LN
Bulkhead Reducing Union



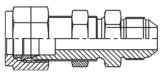
N2701-LN
Bulkhead Union Elbow



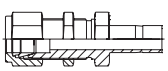
N2705-LN Bulkhead
Female Connector



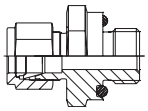
N2706-LN
Bulkhead Male Connector



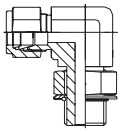
N2707-LN
Bulkhead Male JIC



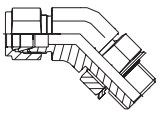
N2709-LN
Bulkhead Reducer



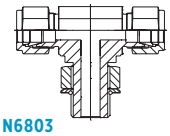
N6400
O Seal Male Connector



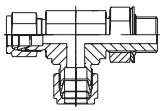
N6801
90˚ Positionable Elbow



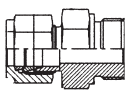
N6802
45˚ Positionable Male
Elbow



N6803
Positionable Male
Branch Tee



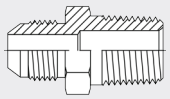
N6804
Positionable Male
Run Tee



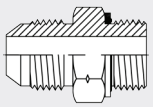
N7002
BSPP Male Connector

*Bored Through Male Connectors for Thermocouples are available. Example: **N2404-04-04-BT-SS.**

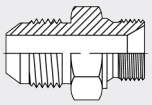
CONVERSION ADAPTERS



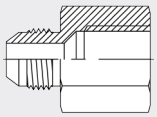
7000
MJ-MBSPT



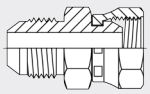
7001
MJ-MMORR



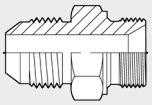
7002
MJ-MBSPP



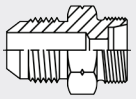
7003
MJ-FBSPP



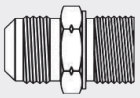
7004
MJ-FBSPPS



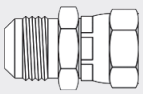
7005
MJ-MM Metric Port



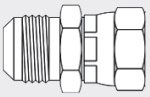
7005-L MJ-MM
Light Metric (Dual)



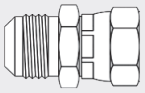
7005-S MJ-MM
Heavy Metric (Dual)



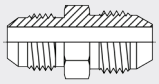
7007
MJ-FMS Metric



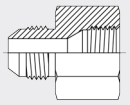
7007-L
M-JIC-MET-FEM-Light



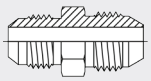
7007-S
M-JIC-MET-FEM-Heavy



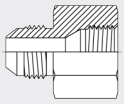
7008
MJ-MJIS Union



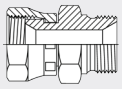
7008-F
MJ-FJIS*



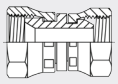
7009
Komatsu MJ-MK Union



7009-F
Komatsu MJ-FK*

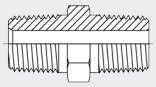


7022
FJS-MBSPP

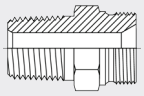


7023
FJS-FBSPPS

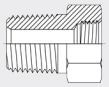
7025
FJS-MM Metric



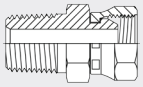
7030
MP-MBSPT Nipple



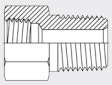
7032
MP-MBSPP



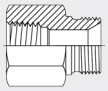
7033
MP-FBSPP



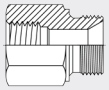
7034
MP-FBSPPS



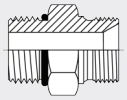
7040
FP-MBSPT



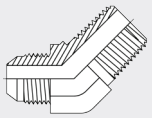
7042
FP-MBSPP



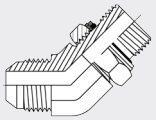
7045
FP-MM Metric



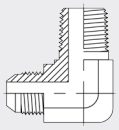
7062
MORB-MBSPP



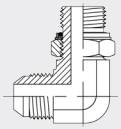
7100
MJ-MBSPT 45˚ Elbow



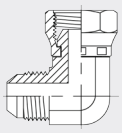
7102-NWO
MJ-MBSPPADJ 45˚



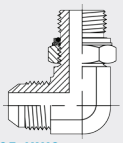
7200
MJ-MBSPT 90˚ Elbow



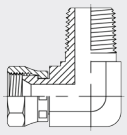
7202-NWO
MJ-MBSPPADJ 90˚



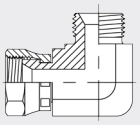
7204
MJ-MBSPPADJ 90˚



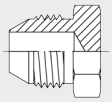
7205-NWO
MJ-MMADJ 90˚ Elbow



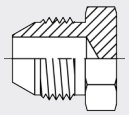
7220
FJS-MBSPT 90˚ Elbow



7222
FJS-MBSPP 90˚ Elbow



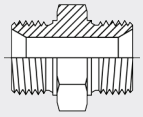
7588-P
MJIS Plug



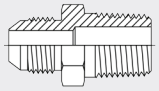
7599-P
Komatsu MK Plug

7688-C
FJIS Cap

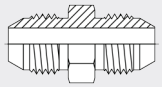
7699-C
Komatsu FK Cap



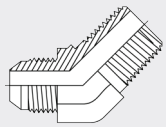
8055
Metric MM-MM Nipple



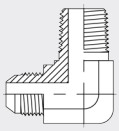
8080
MJIS-MBSPT



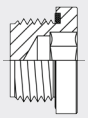
8088
MJIS-MJIS Union



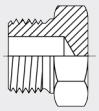
8180
MJIS-MBSPT 45˚ Elbow



8280
MJIS-MBSPT 90˚ Elbow

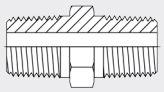


8555-H Metric MM Hollow
Hex Plug

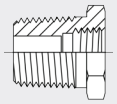


8555-P
Metric Plug

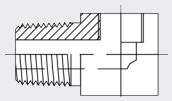
8800
Metric Bonded Seal



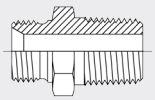
9000
MBSPT-MBSPT Nipple



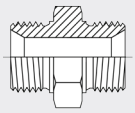
9001
MBSPT-FBSPT Bushing



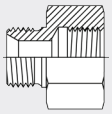
9002
MBSPT 90˚ Elbow



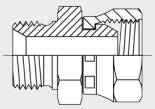
9020
MBSPP-MBSPT Straight



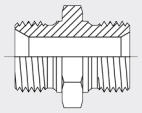
9022
MBSPP-MBSPP Nipple



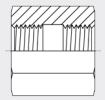
9023 MBSPP-FBSPP
w/60° Seat



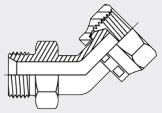
9024
MBSPP-FBSPPS



9025 Metric MBSPP-MM
Nipple

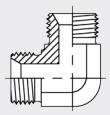


9033
FBSPP-FBSPP Coupling

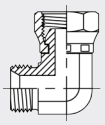


9124 MBSPP-FBSPPS
Swept 45˚

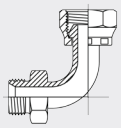
CONVERSION ADAPTERS *CONTINUED*



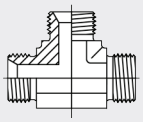
9222
MBSPP 90˚



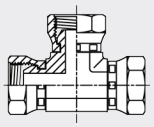
9224
MBSPP-FBSPPS 90˚



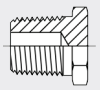
9224-L
MBSPP-FBSPPS 90˚ Long



9322
MBSPP-MBSPP-MBSPP

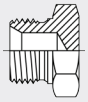


9344 FBSPP-FBSPP-FBSPP Tee



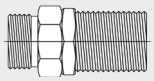
9500-P
MBSPT Plug

9522-H
MBSPP Hollow Hex Plug

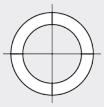


9522-P
MBSPP Hollow Hex Plug

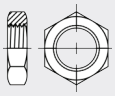
9644-C
FBSPP Cap



9722-LN MBSPP-MBSPP Bulkhead/ LOCKNUT



9900
British Bonded Seal

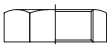


9925
BSPP-Locknut

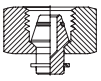
*Swivel style available upon request. Also available 9621-NWO MBSP60˚ - MBSPPAORR 90˚ Adj. Elbow.

METRIC BITE TYPE

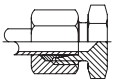
D8000
Reinforcing Sleeve



D8002
Met. Bulkhead Lock Nut



D8003
Blanking Cap-DKO



D8004
Tube End Plug

D8005
Single Bite Ring

D8006
Double Bite Ring

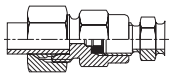
D8007
DiNova Bite Ring

D8008
Tube Nut

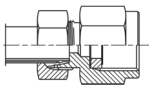
D8009 37˚/24˚ Metric Flare Insert

D8010
37˚ Metric Flare Sleeve

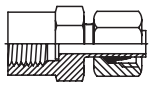
D8011
37˚ Metric Flare Nut



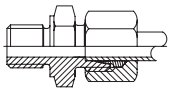
D8020 MPT-FBSPP (Rigid) Gauge Coupling Body Only



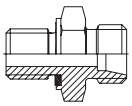
D8020-NBR MBT-FBSPP (Rigid) Gauge Coupling



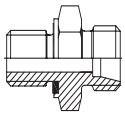
D8021 FMS-FBSPP (Rigid) Gauge Coupling



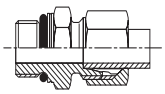
D8030-NBR
MBT-MM Form B



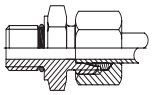
D8031-MBT-MMCOR
Straight Body Only



D8031-O-NBR
MBT-MMCOR Straight

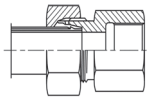


D8032 MBT-MMISO
6149 Body Only

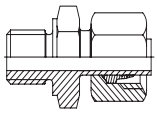


D8032-O-NBR
MBT-MMISO 6149

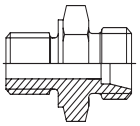
D8033-NBR
MBT-Met. Taper Strt.



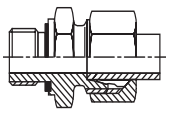
D8034-NBR
MBT-F. Met. (Rigid)



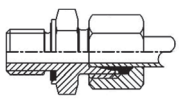
D8036-O
FMS-MMCOR Straight



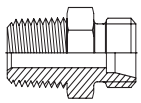
D8040 MBT-MBSPP Form B



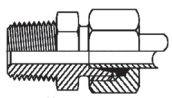
D8041 MBT-MBSPPCOR Straight Body Only



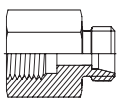
D8041-O-NBR
MBT-MBSPPCOR Strt.



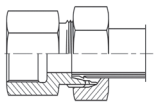
D8043 MBT-MBSPT Straight Body Only



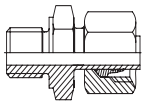
D8043-NBR
MBT-MBSPT Straight



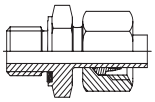
D8044 MBT-FBSPP (Rigid) Body Only



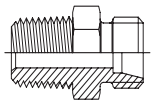
D8044-NBR
MBT-FBSPP (Rigid)



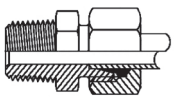
D8045 MBT-MBSPP Form E Male Stud Standpipe



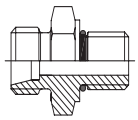
D8046-O
FMS-MBSPPCOR Strt.



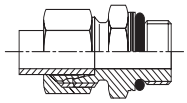
D8050 MBT-MP Straight Body Only



D8050-NBR
MBT-MP Straight

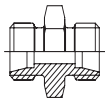


D8051 MBT-MORB Straight Body Only

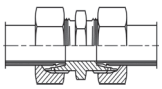


D8051-O-NBR
MBT-MORB Straight

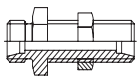
METRIC BITE TYPE *CONTINUED*



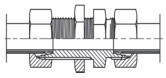
D8060 MBT-MBT
Straight Union Body Only



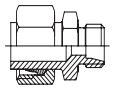
D8060-NBR MBT-MBT
Straight Union



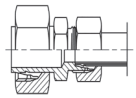
D8061-LN MBT-MBT
Bulkhead Straight
Body Only



D8061-LN-NBR
MBT-MBT Bulkhead Strt.

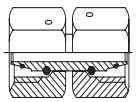


D8062 FMS-MBT
Straight Standpipe
Reducer

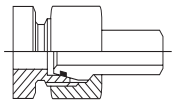


D8062-NBR FMS-MBT
Straight Standpipe Reducer

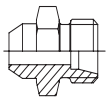
D8064 Met. Internal
Coupling Nut



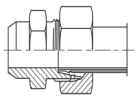
D8067
F. SWV CPLG-DKO



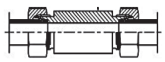
D8096
Straight Weld Nipple



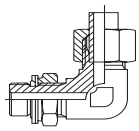
D8097 MBT
Butt Weld Straight



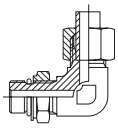
D8097-NBR
MBT-Butt Weld Strt.



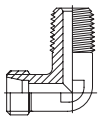
D8098-NBR
MBT-Butt Weld Bulkhead



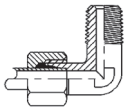
D8231-NWO-NBR
MMORR 90˚ Adj. Elbow



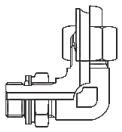
D8232-NWO-NBR
MMISO 6149 90˚ Adj.
Elbow



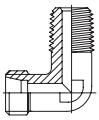
D8233 MBT-Metric Taper
90˚ Elbow Body Only



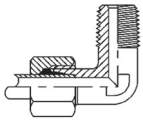
D8233-NBR
MBT-Met. Taper 90˚ Elbow



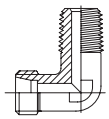
D8241-NWO-NBR
MBSPPORR 90˚ Adj. Elbow



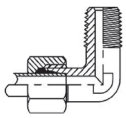
D8243 MBT-MBSPT
90˚ Elbow Body Only



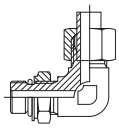
D8243-NBR
MBT-MBSPT 90˚ Elbow



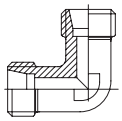
D8250 MBT-MP
90˚ Elbow Body Only



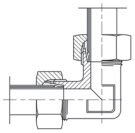
D8250-NBR
MBT-MP 90˚ Elbow



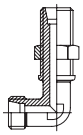
D8251-NWO-NBR
MAORB 90˚ Adj. Elbow



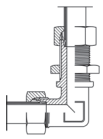
D8260 MBT-MBT
Equal Elbow Body Only



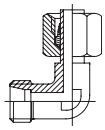
D8260-NBR
MBT-MBT Equal Elbow



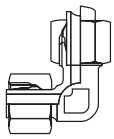
D8261 MBT-MBT
Bulkhead 90˚ Body Only



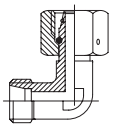
D8261-LN-NBR
MBT-MBT Bulkhead 90˚



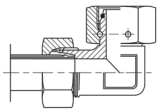
D8263 MBT-FMS 90˚
Adj. Elbow Body Only



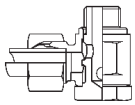
D8263-NBR
MBT-FMS 90˚ Adj. Elbow



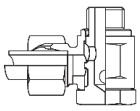
D8269 MBT-FMS
Adj. 90-DKO Body Only



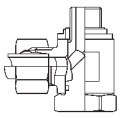
D8269-NBR
MBT-FMS Adj. 90-DKO



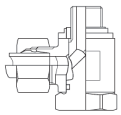
D8290-NBR Met. Para-
llel Low Press. Banjo



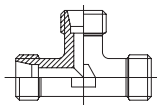
D8291-NBR BSPP Low
Press Banjo Elbow



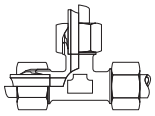
D8292-NBR Met. Parallel
High Press. Banjo Elbow



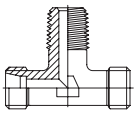
D8293-NBR BSPP High
Pressure Banjo Elbow



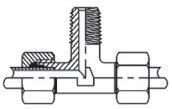
D8360 MBT-MBT-MBT
Equal Tee Body Only



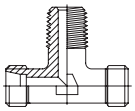
D8360-NBR MBT-MBT-
MBT Equal Tee



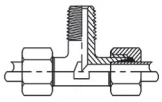
D8433 MBT-MBT-MK
BR. Tee Body Only



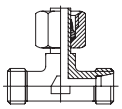
D8433-NBR
MBT-MBT-MK BR. Tee



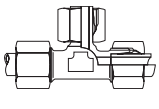
D8443 MBT-MBT-MBSPT
BR. Tee Body Only



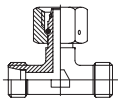
D8443-NBR MBT-MBT-
MBSPT BR. Tee



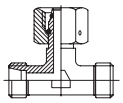
D8463 MBT-MBT-FMS Adj.
Branch Tee
Body Only



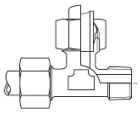
D8463-NBR MBT-MBT-
FMS Adj. Branch Tee



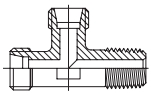
D8469 MBT-MBT-FMS Adj.
BR. Tee-DKO
Body Only



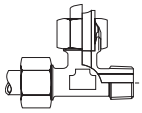
D8469-NBR MBT-MBT-
FMS Adj. BR. Tee-DKO



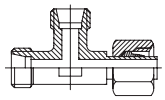
D8533-NBR MBT-MK-
MBT Run Tee



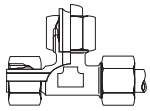
D8543 MBT-MBSPT-MBT
Run Tee Body Only



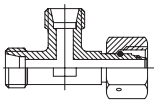
D8543-NBR MBT-
MBSPT-MBT Run Tee



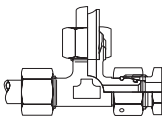
D8563 MBT-FMS-MBT-Adj.
Run Tee Body Only



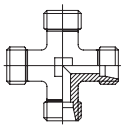
D8563-NBR MBT-FMS-
MBT Adj. Run Tee



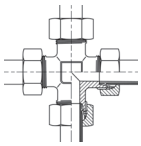
D8569 MBT-FMS-MBT Adj.
Run Tee Body Only



D8569-NBR MBT-FMS-
MBT Adj. Run Tee



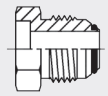
D8660 MBT Equal Cross
Body Only



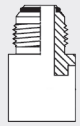
D8660-NBR
MBT Equal Cross

Metric Bite Type Fittings are also available as body only by omitting the NBR suffix.

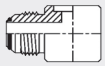
FLARE-O



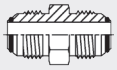
F0403
Bore-FO Straight



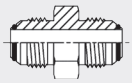
F0500
Bore-FO



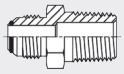
F0600
Bore-Bore-FO



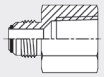
F2403
FO-FO Straight



F2403-LH FO-FO
Straight Large Hex



F2404
FO-MP Straight



F2405
FO-FP Straight

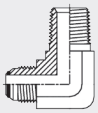
F2406
FJ-FO Straight Reducer
Insert Only

F2406
FJ-FO Straight Reducer
Non-Swivel

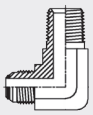
F2406
FJ-FO Straight Reducer
Nut and Insert

F2408
FO Plug

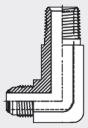
F2500
FO-FO 90˚



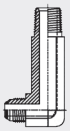
F2501
FO-MP 90˚



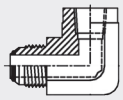
F2501-L
FO-MP 90˚ Long



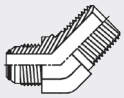
F2501-LL
FO-MP 90˚ X-Long



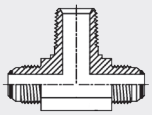
F2501-LLL
FO-MP 90˚ XX-Long



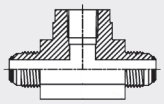
F2502
FO-FP 90˚



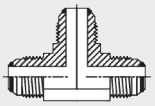
F2503
FO-MP 45˚



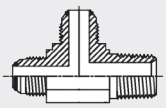
F2601
FO-FO-MP Tee



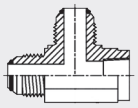
F2602
FO-FO-FP Tee



F2603
FO-FO-FO Tee

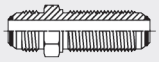


F2605
FO-MP-FO Tee

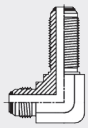


F2606
FO-FP-FO Tee

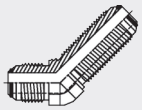
F2650
FO-FO-FO-FO Cross



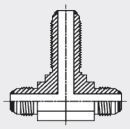
F2700
FO-FO Bulkhead Straight



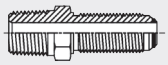
F2701
FO-FO Bulkhead 90˚



F2702
FO-FO Bulkhead 45˚



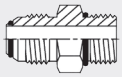
F2703
FO-FO-FO Bulkhead Tee



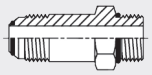
F2706 MP-FO
Bulkhead Straight

F4003
Flare-O Buna

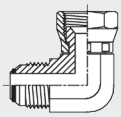
F4004
Flare-O Viton



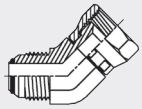
F6400-O
FO-MORB Straight



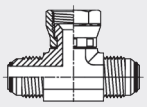
F6400-L-O
FO-MORB Straight



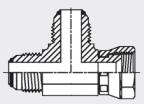
F6500
FO-FJS 90˚



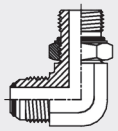
F6502
FO-FJS 45˚



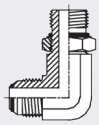
F6600
FO-FO-FJS Tee



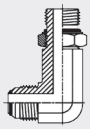
F6602
FO-FJS-FO Tee



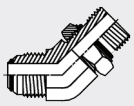
F6801-NWO
FO-MAORB 90˚



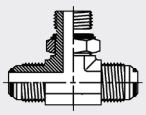
F6801-L-NWO
FO-MAORB 90˚ Long



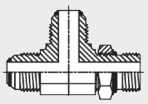
F6801-LL-NWO
FO-MAORB 90˚ X-Long



F6802-NWO
FO-MAORB 45˚



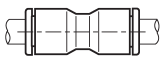
F6803-NWO
FO-FO-MAORB Tee



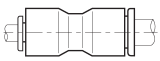
F6804-NWO
FO-MAORB-FO Tee

PUSH-TO-CONNECT

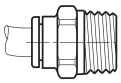
NYLON PUSH-TO-CONNECT FITTINGS FOR INDUSTRIAL APPLICATIONS - PCNY SERIES (METRIC - PCNYM)



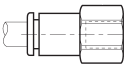
2403 Union - Fractional Inch Tube To Tube



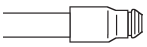
2403 Unequal Union - Fractional Inch Tube To Tube



2404 Male Connector - Fractional Inch Tube To Male NPT



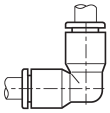
2405 Straight Female Connector - Fractional Inch Tube To NPT



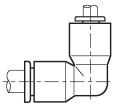
2406 Plug-in Reducer

2408 Plug

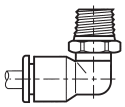
2428 Standpipe



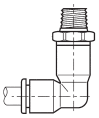
2500 Union Elbow - Fractional Inch To Tube



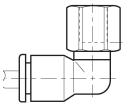
2500 Unequal Union Elbow - Fractional Inch Tube To Tube



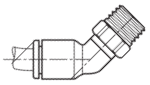
2501 Male Elbow - Fractional Inch Tube To Male NPT



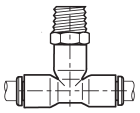
2501-L Extended Male Elbow - Fractional Inch Tube To Male NPT



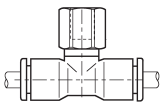
2502 Female Elbow - Fractional Inch Tube To NPT



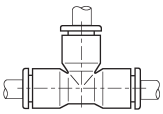
2503 45˚ Male Elbow - Fractional Inch Tube To Male NPT or UNF



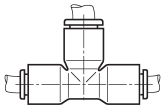
2601 Male Branch Tee - Fractional Inch Tube To Male NPT or UNF To Tube



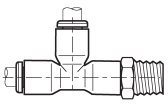
2602 Female Branch Tee - Fractional Inch Tube To Male NPT



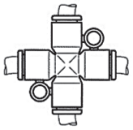
2603 Tee - Fractional Inch Tube To Tube To Tube



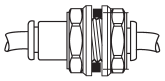
2603 Unequal Tee - Fractional Inch Tube To Tube To Tube



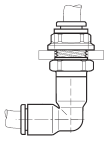
2605 Male Run Tee - Fractional Inch Tube To Tube To Male NPT or UNF



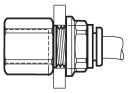
2650 Cross



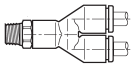
2700 Bulkhead Union - Tube To Tube



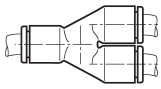
2701 Equal Bulkhead Elbow - Tube To Tube



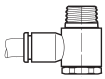
2705 Female Bulkhead Connector - Tube To NPT



2801 "Y" Male - Fractional Inch Tube To NPT



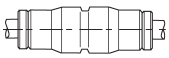
2803 "Y" - Fractional Inch Tube To Tube



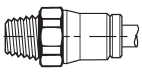
2805 Banjo - Fractional Inch Tube To NPT

Brennan Tubing PC1094, 1/8", 1/4" and 3/8" sizes are stock in black or white in 100 ft. rolls.

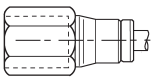
NICKEL-PLATED BRASS PUSH-TO-CONNECT FITTINGS FOR INDUSTRIAL APPLICATIONS - PCNB SERIES (METRIC - PCNBM)



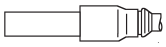
2403 Straight Union - Fractional Inch Tube To Tube



2404 Male Connector - Fractional Inch Tube To NPT

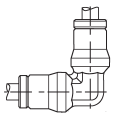


2405 Female Connector - Fractional Inch Tube To NPT

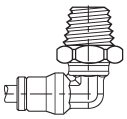


2406 Plug-in Reducer

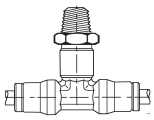
2428 Standpipe



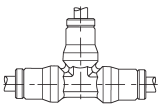
2500 Union Elbow - Fractional Inch Tube To Tube



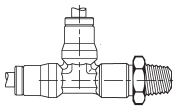
2501 Male Elbow - Fractional Inch Tube To NPT



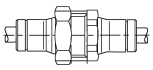
2601 Male Branch Tee - Fractional Inch Tube To NPT To Tube



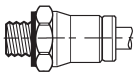
2603 Tee - Fractional Inch Tube To Tube



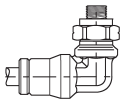
2605 Male Run Tee - Fractional Inch Tube To Tube To NPT



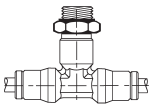
2700 Bulkhead Connector - Fractional Inch Tube To Tube



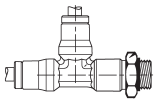
6400 Male Connector - Fractional Inch Tube To UNF



6801 Male Elbow - Fractional Inch Tube To UNF



6803 Male Branch Tee - Fractional Inch Tube To UNF To Tube

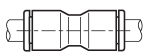


6804 Male Run Tee - Fractional Inch Tube To Tube To UNF

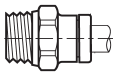
Brennan Tubing PC1094, 1/8", 1/4" and 3/8" sizes are stock in black or white in 100 ft. rolls.

PUSH-TO-CONNECT *CONTINUED*

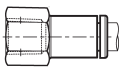
SAE AND DOT PUSH-TO-CONNECT FITTINGS FOR VEHICLE APPLICATIONS - PCDT SERIES



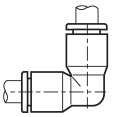
2403 Union - Fractional Inch Tube To Tube



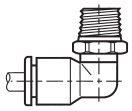
2404 Male Connector - Fractional Inch Tube To Male NPT



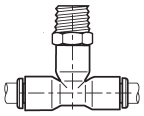
2405 Straight Female Connector - Fractional Inch Tube To NPT



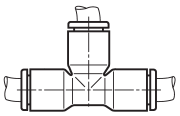
2500 Union Elbow - Fractional Inch Tube To Tube



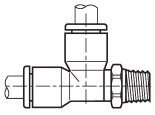
2501 Male Elbow - Fractional Inch Tube To Male NPT



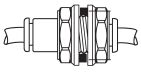
2601 Male Branch Tee - Fractional Inch Tube To Male NPT



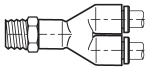
2603 Union Tee - Fractional Inch Tube To Tube To Tube



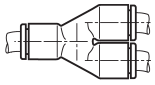
2605 Male Run Tee - Fractional Inch Tube To Male NPT



2700 Bulkhead Union - Fractional Inch



2801 "Y" Male Connector - Fractional Inch Tube To NPT

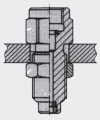


2803 Union "Y" - Fractional Inch Tube To Tube

Brennan Tubing PC1094, 1/8", 1/4" and 3/8" sizes are stock in black or white in 100 ft. rolls.

TEST POINTS

TEST HOSE
DTH Series



GAUGE ADAPTER
DGA Series

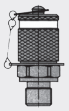
DIRECT GAUGE ADAPTER DDG Series

PRESSURE GAUGE
DG Series

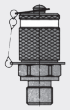
SINGLE GAUGE KIT
DGK-S

DOUBLE GAUGE KIT
DGK-D

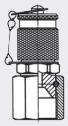
TRIPLE GAUGE KIT
DGK-T



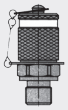
DP-2404
TPS-MNPT



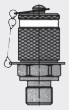
DP-6400
TPS-MORB



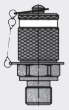
DP-6504
TPS-FJS



DP-7002
TPS-MBSPT



DP-7002-PO
TPS-MMETRIC



DP-7005
TPS-MBSPP

Other test Points available: TPT-362 Series MJ-FJS-FNPTF TPT-369 Series MJ-FJS-FORB

SPECIALS

If you have a design challenge that involves hydraulic fittings, Brennan will help. Chances are, we've already developed a fitting for a similar requirement. The solution could be as easy as modifying an existing fitting to meet your specific requirements. Or, we can start from scratch to develop a solution.

If your application calls for specials, we're the source that will meet your needs. Put the experience of the Brennan team to work for you.

brennaninc.com/specials

ABOUT BRENNAN

In 1953, Brennan Industries, Inc. was founded in Ohio *to answer the need of hydraulic systems customers who required reliable tube fitting and adapter products in a timely fashion.*

In the early years, only about 300 different connectors were being manufactured. Today, with *over 40,000 line items in inventory,* Brennan offers the most complete line of hydraulic tube fittings, adapters and related products available anywhere in the world.

Whether you need steel, stainless steel or brass standards or specials, *we have the fittings you need* on the shelf and in sizes ranging from 1/16" to 3". If you need something custom, our Engineered Solutions team can make it for you quickly.

In addition to our 6 well stocked, *full service domestic USA distribution centers,* Brennan is also a recognized quality global manufacturer of hydraulic fittings and adapters with international distribution centers in Canada, China and the UK.

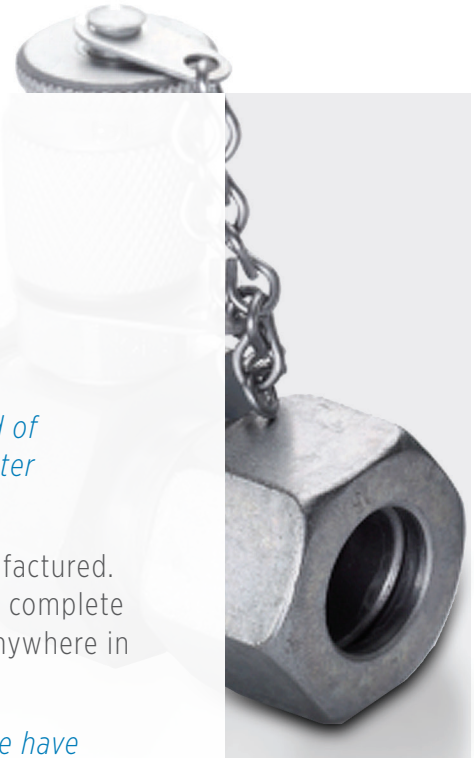
Our global manufacturing and inspection processes assure that our customers, no matter where they may be located, will receive quality Brennan fittings *consistent* in fit, form, function, quality and performance.

As an ISO 9001: 2000 certified company, all our products meet or exceed J.I.C./S.A.E. specifications and *Brennan is the product identification and traceability innovator within the industry.*

Brennan's international reputation for excellence has contributed to our rapid growth. Despite this growth we remain a family owned business making sure our *customers still receive personal attention* by our experienced sales and customer service representatives.

Be sure to visit us online at brennaninc.com or call toll-free at 888-331-1523.

WE LOOK FORWARD TO HEARING FROM YOU.



BRENNAN

NOTES

DISTRIBUTION CENTERS

ATLANTA	PHONE: 770.981.8451 TOLL FREE: 800.458.1988 FAX: 770.987.0926
CLEVELAND	PHONE: 440.248.7088 TOLL FREE: 800.331.1523 FAX: 440.248.9375
DALLAS	PHONE: 972.988.8311 TOLL FREE: 800.443.9937 FAX: 972.660.6638
HOUSTON	TOLL FREE: 800.443.9937 FAX: 713.808.9477
LOS ANGELES	PHONE: 949.595.0901 TOLL FREE: 800.942.5321 FAX: 949.595.0933
SEATTLE	PHONE: 253.826.2001 TOLL FREE: 800.445.7107 FAX: 253.826.4884
BIRMINGHAM UK	PHONE: +44 01922 650039 FAX: 44 01922 626179
SHANGHAI CN	PHONE: +86 21 57391155 FAX: 86 21 57390688
TORONTO CA	TOLL FREE: 855.267.9013 FAX: 905.673.8788

WORLD PREMIER MANUFACTURER

OVER 40,000 PRODUCTS

SPECIALS TEAM AVAILABLE TO HELP WITH CUSTOM APPLICATIONS

9 STRATEGIC DISTRIBUTION CENTERS

WEBSITE WITH EASY ACCESS TO PARTS CATALOG, PRESSURE RATINGS AND PRODUCT CROSS REFERENCE TOOL

CAD FILES AVAILABLE IN MANY FORMATS

MOBILE APP AT YOUR FINGERTIPS

BRENNAN

CORPORATE HEADQUARTERS

6701 Cochran Road
Solon, Ohio 44139 USA

DOMESTIC MANUFACTURING FACILITY

26420 Century Corners Parkway
Cleveland, Ohio 44132 USA

PHONE: 440.248.1880
TOLL FREE: 888.331.1523
FAX: 440.248.7282

ISO 9001

brennaninc.com

© 2016 Brennan Industries, Inc.