### QUICK GUIDE INDEX

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### THREAD CHARTS - JIC - SAE - METRIC/INTERNATIONAL

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**PARTS NOMENCLATURE**

McGill Hose & Coupling, 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 Pipe Fittings are called out by outside diameter (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.

**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
- **FBSP:** Female British Standard Pipe Parallel Tapered
- **FBSPS:** 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.
- **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)
- **LGT:** Length
- **LH:** Large Hex
- **LL:** Extra Long Drop
- **LLL:** Extra Extra Long
- **MAORB:** Male Adjustable O-ring Boss (NWO)
- **MBT:** Metric Bite Type
- **MBSSH:** Male British Standard Pipe Swivel Parallel Adjustable O-ring Boss
- **MBSPADJ:** Male British Standard Pipe Parallel Adjustable
- **MBSPAOORB:** Male British Standard Pipe Parallel Adjustable O-ring Boss
- **MBSPAT:** Male British Standard Pipe Tapered
- **MFS:** Male Face Seal
- **MIFS:** Male Inverted Flare Swivel
- **MJ:** Male J.I.C.
- **MJS:** Male J.I.S.
- **MKOM:** Male Komatsu
- **M.M.:** Millimeters
- **MM:** Male Metric
- **MMAJ:** Male Metric Adjustable
- **MMAORB:** Male Metric Adjustable O-ring Boss use with ISO 6149
- **MMORB:** 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
- **OD:** 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)
- **SS:** Stainless Steel
- **SHE:** 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

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O-RING FACE SEAL FITTINGS

CONTINUED

FS6034-NWO
MFS-FBSP-MJ 90°

FS6039-NWO
FTSP-MBSP 45°

FS7202-NWO
MFS-MFS 90°

FS7205-NWO
MMACRB 90° Elbow

FS7210-NWO
MFS-MFS-MMACRB Tee

FS7215-NWO
MFS-MMACRB-MFS Tee

FS7300-NWO
MFS-MMACRB 45° Elbow

FS7640-O
MFS-MM ORB ISO 874

FS7701
MFS-MM STRAIGHT WITH CAPTIVE SEAL

FS7709
MFS-MBSP 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

0304
Standard Nut

0304-C
JIC Cap Nut

0306
B/F LN

0306-N
BUL N

0318
JIC Tube Nut

0319
JIC Tube Sleeve

0403
BoRE-MJ Straight

0403-TS
M3 Tube Spud

0404
BoRE-MP Straight

0405
BoRE-FP Straight

0406 BoRE-MJ

Boorhead Straight

0600
BoRE-MJ Tee

0601
BoRE-MP Tee

0602
BoRE-FP

0702
BoRE-MJ-MJ Tee

0800
BoRE-FPS Straight

0801
BoRE-FPS 90°

0900
BoRE-FS Straight

0954
BoRE-MP 90° Elbow

0954-L
BoRE-MP 90° Elbow Long

1404
FP-FPS Straight

1405
FP-FPS Straight

1501
MP-FPS 90°

1501-L
MP-FPS 90° Long

1502
FP-FPS 90°

1503
MP-FPS-FPS Tee

1504
FP-FPS 45°

1601
MP-FPS-FPS Tee

1602
FP-FPS-FPS Tee

1603
FIPS-FPS-FPS Tee

1604
MP-FPS-FPS-FPS Cross

2111
PL-FJS Straight
TUBE FITTINGS & ADAPTERS CONTINUED

2112 PL-PSAE Straight
2113 PL-PP Straight
2114 PL-PF Straight
2115 PL-PFS Straight
2116 PL-PSAE Straight
2117 PL-PSM Straight
2118 PL-PL Straight
2119 PL-FP Straight
2120 PL-PP 90° Elbow
2403 MJ-MJ Straight
2404 MJ-MP Straight
2404-LL MJ-MP Straight X-Long
2404-L MJ-MP Straight Long
2405 MJ-FP Straight
2406 MJ-MJ Straight Reducer
2408 MJ Plug
2500 MJ-MJ 90°
2501 MJ-MP 90°
2501-LL MJ-MP 90° XX-Long
2501-L MJ-MP 90° Long
2501-LLL MJ-MP 90° XX-Long
2502 MJ-FP 90°
2503 MJ-MJ 45°
2504 MJ-MP 45°
2505 MJ-FP 45°
2506 MJ-MJ-MJ Tee
2507 MJ-MP-MJ Tee
2508 MJ-FP-MJ Tee
2509 MP-MP-MJ Tee
2510 MJ-MP-MP Tee
2511 MJ-MP-FP Tee
2512 FP-FP-MJ Tee
2513 MP-MP-MJ Tee
2514 MJ-MJ-MJ Tee
2515 MJ-FP-MJ Tee
2516 MP-MP-MJ Tee
2600 MJ-MJ-MJ-MJ Cross
2601 MJ-MP-MJ-MJ Cross
2602 MJ-MJ-MP-MP Cross
2603 MJ-MJ-MJ Tee
2604 MJ-MP-MP Cross
2605 MJ-MP-MJ Tee
2606 MJ-FP-MJ Tee
2607 MJ-MP-MP Tee
2608 MJ-FP-MP Tee
2609 MP-FP-MP Tee
2610 MP-MP-MJ Tee
2611 MJ-MP-MP Cross
2612 FP-FP-MJ Tee
2613 MP-MP-MJ Tee
2614 MJ-MJ-MJ Tee
2615 MJ-FP-MJ Tee
2616 MP-MP-MJ Tee
2617 MJ-MJ-MJ-MJ Cross
2618 MJ-MP-MJ-MJ Cross
2619 MJ-MP-MP Cross
2620 MJ-MP-MJ Tee
2621 MJ-MP-FP Tee
2622 FP-FP-MJ Tee
2623 MP-MP-MJ Tee
2624 MJ-MJ-MJ Tee
2625 MJ-MJ-MJ Tee
2626 MJ-MP-MJ Tee
2627 MJ-MP-MJ Tee
2628 MJ-FP-MJ Tee
2629 MP-MP-MJ Tee
2700 MJ-MJ Bulkhead Straight
2701 MJ-MJ Bulkhead 90°
2702 MJ-MJ Bulkhead 45°
2703 MJ-MJ-MJ Bulkhead Branch Tee
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 90° OD Welded, OD Welded
3474-LLL-NWO 90° OD Welded, OD Welded
4000 Oil O-Ring
4001 Metal O-Ring
4404 MJ-MP Straight
FLARELESS BITE TYPE FITTINGS

C0304-C Cap Nut
C0318 Nut
C0319 Ferrule
C2402 BT-MJ Straight
C2403 BT-BT Tube Union Straight
C2403-LH BT-BT Tube Union Large Hex Straight
C2404 BT-MP Adapter Straight
C2405 BT-PP Adapter Straight
C2406 Tube-PP Reducer
C2408 Plug
C2500 BT-BT Elbow 90°
C2501 BT-MP Elbow 90°
C2501-L BT-MP Elbow 90° Long
C2501-LL BT-MP Elbow 90° X-Long
C2502 BT-PP Elbow 90°
C2503 BT-PP Elbow 45°
C2504 BT-MP Tee
C2601 BT-PP Tee
C2602 BT-MP Tee
C2603 BT-MP Tee
C2604 BT-MP Tee
C2605 BT-PP Tee
C2606 BT-PP-BT Tee
C2650 BT-BT-BT Cross
C2700 BT-BT Bulkhead Union
C2701 BT-BT Bulkhead Union 90°
C2702 BT-BT Bulkhead Union 45°
C2703 BT-BT-BT Bulkhead Branch Tee
C2704 BT-BT-BT Bulkhead Tee
C2705 PP-BT Bulkhead
C2706 MP-BT Bulkhead
C2707 NU-BT Bulkhead
C6400-0 BT-MOBB Straight
C6400-L-O BT-MOBB Long Straight
C6500 BT-BTS 90° Elbow
C6502 BT-BTS 45° Elbow
C6600 BT-BTS-BT Tee
C6602 BT-BTS-BT Tee
C6801-NWO BT-MAOBB 90°
C6802-NWO BT-MAOBB 45°
C6803-NWO BT-MAOBB Tee
C6804-NWO BT-MAOBB-BT Tee

HYDRAULIC FLANGES / ACCESSORIES CONTINUED

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

C0304-C Cap Nut
C0318 Nut
C0319 Ferrule
C2402 BT-MJ Straight
C2403 BT-BT Tube Union Straight
C2403-LH BT-BT Tube Union Large Hex Straight
C2404 BT-MP Adapter Straight
C2405 BT-PP Adapter Straight
C2406 Tube-PP Reducer
C2408 Plug
C2500 BT-BT Elbow 90°
C2501 BT-MP Elbow 90°
C2501-L BT-MP Elbow 90° Long
C2501-LL BT-MP Elbow 90° X-Long
C2502 BT-PP Elbow 90°
C2503 BT-PP Elbow 45°
C2504 BT-MP Tee
C2601 BT-PP Tee
C2602 BT-MP Tee
C2603 BT-MP Tee
C2604 BT-MP Tee
C2605 BT-PP Tee
C2606 BT-PP-BT Tee
C2650 BT-BT-BT Cross
C2700 BT-BT Bulkhead Union
C2701 BT-BT Bulkhead Union 90°
C2702 BT-BT Bulkhead Union 45°
C2703 BT-BT-BT Bulkhead Branch Tee
C2704 BT-BT-BT Bulkhead Tee
C2705 PP-BT Bulkhead
C2706 MP-BT Bulkhead
C2707 NU-BT Bulkhead
C6400-0 BT-MOBB Straight
C6400-L-O BT-MOBB Long Straight
C6500 BT-BTS 90° Elbow
C6502 BT-BTS 45° Elbow
C6600 BT-BTS-BT Tee
C6602 BT-BTS-BT Tee
C6801-NWO BT-MAOBB 90°
C6802-NWO BT-MAOBB 45°
C6803-NWO BT-MAOBB Tee
C6804-NWO BT-MAOBB-BT Tee

HYDRAULIC FLANGES / ACCESSORIES CONTINUED

ADDITIONAL AVAILABLE PRODUCTS
1910, CODES 61 & 62 Tube Weld Socket Flange Connector
1911, CODES 61 & 62 Pipe Weld Socket Flange Connector
1912-Q, CODES 61 SAE Flange Connector
1912-P, CODE 61 NPTF Flange Connector
1915, 1917 & 1919, CODES 61 & 62 Butt Weld Connector-Various Pipe Schedules
CONVERSION ADAPTERS

- 7000 MJ-MBSPT
- 7001 MJ-MMORR
- 7002 MJ-MBSPP
- 7003 MJ-FBSP
- 7004 MJ-FBSPS
- 7005 MJ-MM Metric Port
- 7005-L MJ-MM Light Metric (Dual)
- 7007-L MJ-JIC MET-FEM Light
- 7007-S MJ-JIC MET-FEM Heavy
- 7008 MJ-MUS Union
- 7008-F MJ-FUS*
- 7009 Komatsu MJ-MK Union
- 7009-F Komatsu MJ-FK*
- 7022 FJS-MBSPP
- 7023 FJS-FBSP
- 7025 FJS-MM Metric
- 7026 MJ-FJIS*
- 7030 MP-MBSPT Nipple
- 7032 MP-MBSP
- 7033 MP-FBSP
- 7034 MP-FBSPS
- 7040 FP-MBSPT
- 7042 FP-MBSP
- 7045 FP-MM Metric
- 7062 MMB-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-MRAMJ 90˚ Elbow
- 7220 FJS-MBSPT 90˚ Elbow
- 7222 FJS-MBSPP 90˚ Elbow
- 7588-P MJIS Plug
- 7599-P Komatsu MK Plug
- 7688-C FJS Cap
- 7699-C Komatsu FK Cap
- 8055 Metric MM-MM Nipple
- 8088 MJUS-MJIS Union
- 8080 MJUS-MBSPT
- 8088 MUS-MJUS Union
- 8180 MJS-MBSPT 45˚ Elbow
- 8280 MJS-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-MBSP Straight
- 9022 MBSPP-MBSPP Nipple
- 9023 MBSP-MFSPS Set Screw
- 9024 MBSPP-FBSPPS
- 9025 Metric MBSP-MM Nipple
- 9033 FBSP-FBSPPS Coupling
- 9124 MBSP-FBSPPS Swept 45˚
## Conversion Adapters (Continued)

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>9222</td>
<td>MBSPP 90°</td>
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<td>9224</td>
<td>MBSPP-FBSPP 90°</td>
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<tr>
<td>9224-L</td>
<td>MBSPP-FBSPP 90° Long</td>
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<tr>
<td>9322</td>
<td>MBSP-MBSPP-MBSPP</td>
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<td>9344</td>
<td>FBSPP-FBSPP-FBSPP Tee</td>
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<td>9444</td>
<td>FBSPP-FBSPP- FBSPP 90° Adj. Elbow</td>
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<td>9500</td>
<td>BSPP-Locknut</td>
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<td>9522-H</td>
<td>MBSPP Hollow Hex Plug</td>
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<tr>
<td>9522-P</td>
<td>MBSPP Hollow Hex Plug</td>
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<td>9644-C</td>
<td>FBSPP Cap</td>
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<tr>
<td>9722-LN</td>
<td>MBSPP-MBSPP-Bulkhead/LOCKNUT</td>
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<td>9900</td>
<td>British Bonded Seal</td>
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<td>9925</td>
<td>BSPP-Locknut</td>
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### Metric Bite Type

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>D8000</td>
<td>Reinforcing Sleeve</td>
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<td>D8002</td>
<td>Met. Bulkhead Lock Nut</td>
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<td>D8003</td>
<td>Blanking Cap-DKO</td>
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<td>D8004</td>
<td>Tube End Plug</td>
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<tr>
<td>D8005</td>
<td>Single Bite Ring</td>
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<tr>
<td>D8006</td>
<td>Double Bite Ring</td>
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<tr>
<td>D8007</td>
<td>DNova Bite Ring</td>
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<tr>
<td>D8008</td>
<td>Tube Nut</td>
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<tr>
<td>D8009</td>
<td>37°/24° Metric Flare Insert</td>
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<tr>
<td>D8010</td>
<td>37° Metric Flare Sleeve</td>
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<tr>
<td>D8011</td>
<td>37° Metric Flare Nut</td>
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<tr>
<td>D8020</td>
<td>MPT-FBSPP (Rigid) Gauge Coupling Body Only</td>
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<tr>
<td>D8020-NBR</td>
<td>MBT-FBSPP (Rigid) Gauge Coupling</td>
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<tr>
<td>D8021</td>
<td>FMS-FBSPP (Rigid) Gauge Coupling</td>
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<tr>
<td>D8023-NBR</td>
<td>MBT-MBSPPCOR Strt.</td>
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<tr>
<td>D8031-MBT-MMCOR</td>
<td>Straight Body Only</td>
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<td>D8031-O-NBR</td>
<td>MBT-MMCOR Straight</td>
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<tr>
<td>D8032-MBT-MMISO</td>
<td>Body Only</td>
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<td>D8032-O-NBR</td>
<td>MBT-MMISO Body Only</td>
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<td>D8033-NBR</td>
<td>MBT-MET. Taper Strt.</td>
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<td>D8034-NBR</td>
<td>MBT-MET. (Rigid)</td>
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<td>D8035-NBR</td>
<td>MBT-FBSPP (Rigid) Body Only</td>
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<td>D8036-O-NBR</td>
<td>FMS-MMCOR Straight</td>
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<td>D8040-MBT-MBSPP</td>
<td>Form B</td>
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<tr>
<td>D8041-MBT-MBSPPCOR</td>
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<td>D8041-O-NBR</td>
<td>MBT-MBSPPCOR Strt.</td>
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<td>D8043-MBT-MBSPT</td>
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<tr>
<td>D8045-MBT-FBSPP</td>
<td>(Rigid) Body Only</td>
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<td>D8046-O-NBR</td>
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<tr>
<td>D8047-MBT-MF</td>
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<td>D8048-MBT-MF</td>
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<td>D8049-MBT-MF</td>
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<td>D8050-MBT-MF</td>
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<tr>
<td>D8051-MBT-MORB</td>
<td>Strt.</td>
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<td>D8051-O-NBR</td>
<td>MBT-MORB (Rigid)</td>
</tr>
</tbody>
</table>

*Swivel style available upon request. Also available 9621-NWO MBSP60˚ - MBSPRADER 90˚ Adj. Elbow.
Metric Bite Type Fittings are also available as body only by omitting the NBR suffix.
CUSTOM ASSEMBLY FABRICATION

If you have a design challenge that involves hydraulic fittings, McGill 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 or assembly to meet your specific requirements. Or, we can start from scratch to develop a solution.

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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.

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