# TRUFLOW
HYDRAULIC HOSE AND FITTINGS

WESTERN AUSTRALIAN
OWNED AND OPERATED

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HPA HOSE PROTECTION AUSTRALIA



# 2026 CATALOGUE







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# TRUFLOW

## HYDRAULIC HOSE AND FITTINGS

### About Us




Established in 2004, Truflow began as a specialist importer of hydraulic hoses and quick-release couplings. Over the past two decades, we've expanded significantly, now proudly supplying trusted brands such as Gates, Hydroscand, CEJN, Gemels, Nitto, HPA, Tridon, and a complete range of hydraulic adaptors, hose fittings, and clamping solutions.

With a strong focus on the Western Australian market and a team boasting over 220 years of combined industry experience, we're known for our rapid turnaround times, exceptional fill rates, and reliable service.

Strategically located within WA's freight network, we offer same day pickups and efficient shipping across Australia and internationally. Our highly competitive pricing, combined with our product range and service, positions Truflow as a leading supplier of hydraulic hoses, fittings, quick-release couplings, inline valves, and clamping systems.

### Service

If you're using hydraulic or industrial hose, breakdowns are inevitable and when they happen, time is money. At Truflow Hydraulic Hose & Fittings, we specialise in fast, efficient hose repair and replacement to get your operations back on track FAST.

Our expert team provides fully assembled hose replacements, complete with crimping, fittings, and any required accessories. When downtime hits, count on Truflow to deliver what you need, exactly when you need it.

### Hose Kits

Our hose kitting services are designed to simplify procurement, streamline manufacturing, and improve overall productivity.

We offer complete hose kit management tailored to your specific needs. Once your custom kit is entered into our system, we can reproduce it on demand. Every kit is assembled, cleaned, bagged, and tagged for quick identification and efficient installation.

Minimise downtime, reduce inventory complexity, and maximise productivity with Truflow's expert hose kitting solutions.







# TRUFLOW
HYDRAULIC HOSE AND FITTINGS

For all your hydraulic hose, fittings, adaptors, quick release couplings and accessories

**www.truflowhydraulic.com.au**

2026V2.4

TRUFLOW
HYDRAULIC HOSE AND FITTINGS



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# EXPERIENCE UNPARALLELED PERFORMANCE WITH MXG™ 5K

# A - Hydraulic Hose

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## Low Pressure Hose

**GTH** | **SAE100R6 High-Temp 1-Fiber Braid**




| | |
|---|---|
| ***RECOMMENDED FOR*** | Hydraulic oil lines, heavy-duty transmission oil cooler lines and glycol anti-freeze solutions. Meets or exceeds requirements of SAE 100R6. |
| ***TUBE*** | Black, specially compounded, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | One fibre braid. |
| ***COVER*** | Black, oil and abrasion resistant, synthetic rubber (Polychloroprene). |
| ***TEMPERATURE RANGE*** | For hydraulic oil lines -40°C to +135°C constant and +149°C intermittent (up to 10% of operating time). |
| ***COUPLING RECOMMENDATION*** | -4 to -12 - G Series - MegaCrimp® Couplings (B5)<br>-4to -12 - Push On Series (B119) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| GTH-04 | 1/4 | 12.7 | 400 | 63.5 | 236 |
| GTH-05 | 5/16 | 14.2 | 400 | 76.2 | 198 |
| GTH-06 | 3/8 | 16.0 | 400 | 76.2 | 168 |
| GTH-08 | 1/2 | 19.8 | 400 | 101.6 | 122 |
| GTH-10 | 5/8 | 23.1 | 350 | 127.0 | 76 |
| GTH-12 | 3/4 | 27.0 | 300 | 139.7 | 69 |

## LOLA — Gates Lock-on 1-Fiber Braid Hose 300PSI




| | |
|---|---|
| ***RECOMMENDED FOR*** | Petroleum-based hydraulic oils, water, glycol anti-freeze solutions, engine lubricating oils, and air. Lock-On hose and couplings are NOT recommended for pressure surge applications or critical applications, such as permanent piping in residential or commercial buildings. Do not use for gasoline or diesel fuels, unless approved by Gates H/C Product Application. |
| ***TUBE*** | Black, oil resistant, synthetic rubber highly resistant to oil and heat (Nitrile). |
| ***REINFORCEMENT*** | One fibre braid. |
| ***COVER*** | Oil and abrasion resistant synthetic rubber (Nitrile and PVC). Available in black Polychloroprene (LOLA), blue (LOLB), green (LOLG), red (LOLR), yellow (LOLY) and grey (LOLC) colours. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. Air to +71°C only. For water emulsions. |
| ***COUPLING RECOMMENDATION*** | Push On Series (B119) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| LOLA-03 | 3/16 | 10.4 | 300 | 76.2 | 91 |
| LOLA-04 | 1/4 | 11.9 | 300 | 76.2 | 145 |
| LOLA-05 | 5/16 | 14.0 | 300 | 76.2 | 91 |
| LOLA-06 | 3/8 | 16.0 | 300 | 76.2 | 91 |
| LOLA-08 | 1/2 | 15.6 | 300 | 127.0 | 91 |
| LOLB-08 | 1/2 | 15.6 | 300 | 127.0 | 91 |
| LOLA-08RED-MSHA | 1/2 | 19.6 | 300 | 127.0 | 91 |
| LOLA-10 | 5/8 | 23.9 | 300 | 152.4 | 76 |
| LOLA-12 | 3/4 | 26.9 | 300 | 177.8 | 69 |
| LOLA-12RED-MSHA | 3/4 | 26.9 | 300 | 177.8 | 69 |

Black Cover Only Meets Flame Resistance Acceptance Designation "MSHA 2G".

## Medium Pressure Hose

**CR1** | **SAE100R1 Gates Pro Series Smooth Cover**




| | |
|---|---|
| ***RECOMMENDED FOR*** | Gates® PRO™ Series CR1 variable pressure hydraulic hoses deliver performance and reliability in a one-wire construction. Engineered for less demanding hydraulic applications, our line of professional-grade hoses are designed to balance product performance and investment for everyday uses. All sizes deliver consistent performance to SAE and EN industry specifications. Qualified with Gates® PRO™ Series and MegaCrimp® Couplings. |
| ***TUBE*** | Black, oil resistant, synthetic rubber tube. |
| ***REINFORCEMENT*** | One braid of high-tensile steel wire |
| ***COVER*** | Smooth, black, synthetic rubber. Meets MSHA flame resistance. |
| ***TEMPERATURE RANGE*** | -40 °C to +100 °C . |
| ***COUPLING RECOMMENDATION*** | -4 to -16 G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| CR1-04 | 1/4 | 13.2 | 3275 | 101.6 | 134 |
| CR1-06 | 3/8 | 16.8 | 2600 | 129.5 | 117 |
| CR1-08 | 1/2 | 19.8 | 2325 | 177.8 | 101 |
| CR1-10 | 5/8 | 23.1 | 1900 | 205.7 | 67 |
| CR1-12 | 3/4 | 27.2 | 1525 | 241.3 | 67 |
| CR1-16 | 1 | 35.1 | 1250 | 399.7 | 50 |

## G1 SAE100R1 Gates 1-Wire




| | |
|---|---|
| ***RECOMMENDED FOR*** | Medium-pressure hydraulic lines. Meets or exceeds the requirements of SAE 100R1, ISO 1436 1SNR1 and EN 853 1SN. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | One braid of high-tensile steel wire. |
| ***COVER*** | Black, oil and abrasion resistant, synthetic rubber (Nitrile and PVC). |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. |
| ***COUPLING RECOMMENDATION*** | -20 G Series - MegaCrimp® Couplings (B5)<br>-20 GS Series - GlobalSpiral™ Couplings (B33)<br>-24 to -32 GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| G1-20 | 1 1/4 | 43.4 | 925 | 406.4 | 37 |
| G1-24 | 1 1/2 | 49.8 | 725 | 508.0 | 37 |
| G1-32 | 2 | 63.8 | 600 | 635.0 | 37 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

# Hydraulic Hose



## G1H — SAE100R1 Gates 1-Wire Hi-Temp




| | |
|---|---|
| ***RECOMMENDED FOR*** | High-temperature medium-pressure hydraulic oil lines. Meets or exceeds SAE 100R1 Type AT 2003 Revision. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | One braid of high-tensile steel wire. |
| ***COVER*** | Black, oil and abrasion resistant, synthetic rubber. |
| ***TEMPERATURE RANGE*** | -40°C to +135°C constant and +149°C intermittent (up to 10% of operating time). |
| ***COUPLING RECOMMENDATION*** | -6 to -16 - G Series - MegaCrimp® Couplings (B5)<br>-4 to -16 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| G1H-04 | 1/4 | 13.5 | 2750 | 102.0 | 134 |
| G1H-06 | 3/8 | 17.5 | 2250 | 127.0 | 117 |
| G1H-08 | 1/2 | 20.3 | 2000 | 178.0 | 101 |
| G1H-10 | 5/8 | 23.9 | 1500 | 203.0 | 67 |
| G1H-12 | 3/4 | 27.9 | 1250 | 241.0 | 67 |
| G1H-16 | 1 | 35.8 | 1000 | 305.0 | 50 |
| G1H-20 | 1 1/4 | 43.4 | 925 | 406.0 | 37 |
| G1H-24 | 1 1/2 | 49.8 | 725 | 508.0 | 37 |
| G1H-32 | 2 | 63.8 | 600 | 635.0 | 37 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".



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| C5CXH | SAE100R5 Hi-Temp Hose |
|---|---|




| | |
|---|---|
| ***RECOMMENDED FOR*** | Extremely high-temperature petroleum based or phosphate ester fluids, transmission coolant lines, hot lube oil lines, power steering, gasoline, tilt cab cylinder, air brake, turbocharger oil supply and hot lube oil lines. Meets the requirements of SAE 100R5 for hydraulic applications, SAE 1405 hot oil circulation, SAE J1402 for air brake applications, FMVSS 106-74 DOT standard and SAE J30R2 Fuel Resistance. |
| ***TUBE*** | Black, oil and heat-resistant synthetic polymer tube (CPE). |
| ***REINFORCEMENT*** | Braided, high-tensile wire and textile. |
| ***COVER*** | Blue, oil and mildew resistant polyester/textile braid. |
| ***TEMPERATURE RANGE*** | -40°C to +150°C. |
| ***COUPLING RECOMMENDATION*** | -4 to -20 - R5 Field Attachable Couplings (B115)<br>-4, -6, -10, -16, 20 - C5 Field Attachable Couplings<br>-5, -8, -12 - C5X Field Attachable Coupling<br>-5, -10, -12 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| C5CXH-04 | 3/16 | 13.2 | 3000 | 86.4 | 134 |
| C5CXH-05 | 1/4 | 14.7 | 3000 | 86.4 | 117 |
| C5CXH-06 | 5/16 | 17.0 | 2250 | 101.6 | 117 |
| C5CXH-08 | 13/32 | 19.6 | 2000 | 116.8 | 101 |
| C5CXH-10 | 1/2 | 23.4 | 1750 | 139.7 | 84 |
| C5CXH-12 | 5/8 | 27.4 | 1500 | 165.1 | 67 |
| C5CXH-16 | 7/8 | 31.2 | 800 | 188.0 | 50 |
| C5CXH-20 | 1 1/8 | 38.1 | 625 | 228.6 | 37 |

# Hydraulic Hose



## MEGATECH500 — Gates MEGATECH Hi-Temp Oil-Air Return Hose (1000PSI)




| | |
|---|---|
| ***RECOMMENDED FOR*** | Air brake hose, pressurised hot oil return lines and rotary oil/air compressor lines. Meets the requirements of SAE J1405 performance specifications for high-temperature transmission and lubricating oil systems using petroleum base oils. Not recommended for gasoline or diesel fuel applications. |
| ***TUBE*** | Black tube specifically compounded for temperature and chemical resistance (CPE - Type J). |
| ***REINFORCEMENT*** | One braid of high-tensile steel wire. |
| ***COVER*** | Oil and mildew resistant, textile braid, impregnated with synthetic rubber. |
| ***TEMPERATURE RANGE*** | Petroleum-base fluids: -40°C to +149°C Phosphate esters fluids as recommended by the fluid manufacturer, but within a range of -40°C to +100°C. |
| ***COUPLING RECOMMENDATION*** | -24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59)<br>-40 to -48 - GL Series - GL Couplings |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| MEGATECH500-24 | 1 1/2 | 49.5 | 500 | 381.0 | 30 |
| MEGATECH500-32 | 2 | 63.0 | 500 | 457.2 | 30 |
| MEGATECH500-40 | 2 1/2 | 75.4 | 500 | 558.8 | 30 |
| MEGATECH500-48 | 3 | 88.9 | 500 | 609.6 | 30 |

| MEGATECH1000 | Gates MEGATECH High-Temp Oil-Air Return Hose (1000PSI) |
|---|---|




| | |
|---|---|
| *RECOMMENDED FOR* | Air brake hose, pressurized hot oil return lines and rotary oil/air compressor lines. Meets the requirements of DOT FMVSS 106-74, SAE J1402, for Air Brake Hose (-4, -6, -8, -10). Not recommended for gasoline or diesel fuel applications. |
| *TUBE* | Black tube specifically compounded for temperature and chemical resistance (CPE). |
| *REINFORCEMENT* | One braid of high-tensile steel wire. |
| *COVER* | Oil and mildew resistant, textile braid, impregnated with synthetic rubber. |
| *TEMPERATURE RANGE* | Petroleum-base fluids: -40°C to +149°C. Phosphate esters fluids as recommended by the fluid manufacturer, but within a range of -40°C to +100°C.. |
| *COUPLING RECOMMENDATION* | -4 to -16 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| MEGATECH1000-04 | 1/4 | 13.2 | 1000 | 50.8 | 107 |
| MEGATECH1000-06 | 3/8 | 16.8 | 1000 | 63.5 | 107 |
| MEGATECH1000-08 | 1/2 | 20.3 | 1000 | 88.9 | 107 |
| MEGATECH1000-10 | 5/8 | 23.6 | 1000 | 101.6 | 91 |
| MEGATECH1000-12 | 3/4 | 29.2 | 1000 | 119.4 | 61 |
| MEGATECH1000-16 | 1 | 34.8 | 1000 | 152.4 | 46 |

## High Pressure Hose

**CR2** | **SEA100R2 Gates Pro Series Smooth Cover**




| | |
|---|---|
| ***RECOMMENDED FOR*** | Gates® PRO™ Series CR2 variable pressure hydraulic hoses deliver performance and reliability in a two-wire construction. Engineered for less demanding hydraulic applications, our line of professional-grade hoses are designed to balance product performance and investment for everyday uses. All sizes deliver consistent performance to SAE and EN industry specifications. Qualified with Gates® PRO™ Series and MegaCrimp® Couplings. Recommended for medium pressure hydraulic with low flexure/non-flexure applications |
| ***TUBE*** | Black, oil resistant, synthetic rubber tube. |
| ***REINFORCEMENT*** | Two braid of high-tensile steel wire |
| ***COVER*** | Smooth, black, synthetic rubber. Meets MSHA flame resistance. |
| ***TEMPERATURE RANGE*** | -40 °C to +100 °C. |
| ***COUPLING RECOMMENDATION*** | -4 to -16 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| CR2-04 | 1/4 | 14.5 | 5800 | 102 | 168 |
| CR2-06 | 3/8 | 18.5 | 4800 | 127 | 122 |
| CR2-08 | 1/2 | 21.6 | 4000 | 178 | 101 |
| CR2-10 | 5/8 | 24.9 | 3625 | 203 | 67 |
| CR2-12 | 3/4 | 29.0 | 3125 | 214 | 67 |
| CR2-16 | 1 | 37.1 | 2400 | 305 | 50 |

Meets Flame Resistance Acceptance Designation "MSHA 2G"

## MXT | SAE100R16 Gates MEGASYS 1-Wire




MXT-XTP has all the same features as MXT, but with the addition of the XtraTuff™ Plus cover that offers 25X the abrasion resistance of standard covers, as well as enhanced ozone resistance. MXT-XTP was designed to address our customers' evolving application challenges. Using materials science and process innovation, combined with a patent-pending construction, Gates offers a hydraulic solution that is lighter, stronger, and more flexible.

| | |
|---|---|
| ***RECOMMENDED FOR*** | High-pressure hydraulic oil lines. Meets SAE 100R16 dimensions and performance. Meets SAE 100R17 (6, 8, 10, and 12) dimension and performance. Meets SAE 100R2 performance. Meets SAE 100R19 (6, and 8) performance. MXT hose has smaller exterior dimensions, lower force to bend and significantly tighter bend radius than all SAE specs listed above. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Patent-Pending, Gates-Engineered, high-tensile steel wire braid reinforcement. |
| ***COVER*** | Black, oil, abrasion and weather resistant, synthetic rubber (nitrile), with colour coded layline. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. |
| ***COUPLING RECOMMENDATION*** | -4 to -16 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| MXT-04 | 1/4 | 14.5 | 6000 | 51 | 168 |
| MXT-06 | 3/8 | 17.2 | 4800 | 64 | 122 |
| MXT-08 | 1/2 | 20.2 | 4000 | 70 | 101 |
| MXT-10 | 5/8 | 24 | 3625 | 76 | 67 |
| MXT-12 | 3/4 | 27.4 | 3125 | 121 | 67 |
| MXT-16 | 1 | 35.1 | 2400 | 152 | 50 |
| MXT-XTP-04 | 1/4 | 14 | 6000 | 38.1 | 168 |
| MXT-XTP-06 | 3/8 | 17.1 | 4800 | 64 | 122 |
| MXT-XTP-08 | 1/2 | 20.2 | 4000 | 70 | 101 |
| MXT-XTP-10 | 5/8 | 24 | 3625 | 100 | 67 |
| MXT-XTP-12 | 3/4 | 27.4 | 3125 | 121 | 67 |
| MXT-XTP-16 | 1 | 35.1 | 2400 | 152 | 50 |

Meets Flame Resistance Acceptance Designation "MSHA 2G". Tested to Industry Leading 600,000 impulse cycles.

# Hydraulic Hose



## G2 SAE100R2 Gates 2-Wire




| | |
|---|---|
| ***RECOMMENDED FOR*** | Recommended for high-pressure hydraulic oil line applications. Meets or exceeds the requirements of SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Black, oil resistant, synthetic rubber (CSM). Also available with unique abrasion resistant MegaTuff® cover. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. Meets MSHA flame resistance. |
| ***COUPLING RECOMMENDATION*** | -20 - G Series - MegaCrimp® Couplings (B5)<br>-20 - GS Series - GlobalSpiral™ Couplings (B33)<br>-24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| G2-20 | 1 1/4 | 47.2 | 1825 | 419.1 | 37 |
| G2-24 | 1-1/2 | 53.6 | 1300 | 508.0 | 37 |
| G2-32 | 2 | 66.6 | 1175 | 635.0 | 37 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".



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| G2H | SAE100R2 Gates 2-Wire Hi-Temp |
|---|---|




| | |
|---|---|
| ***RECOMMENDED FOR*** | High-temperature high-pressure hydraulic oil lines. Meets or exceeds the requirements of SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Black, oil resistant, synthetic rubber (CSM). Also available with unique abrasion resistant MegaTuff® cover. |
| ***TEMPERATURE RANGE*** | -40°C to +135°C constant and +149°C intermittent (up to 10% of operating time). |
| ***COUPLING RECOMMENDATION*** | -20 - G Series - MegaCrimp® Couplings (B5)<br>-20 - GS Series - GlobalSpiral™ Couplings (B33)<br>-24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| G2H-20 | 1 1/4 | 47.2 | 1825 | 419.1 | 37 |
| G2H-24 | 1-1/2 | 53.6 | 1300 | 508.0 | 37 |
| G2H-32 | 2 | 66.6 | 1175 | 635.0 | 37 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

# Hydraulic Hose



## M2T — SAE100R16 M2T™ MegaFlex™ 2-Wire Braid Hose




| | |
|---|---|
| ***RECOMMENDED FOR*** | High-pressure hydraulic oil lines. Exceeds SAE 100R16, SAE 100R2, ISO 11237 2SC R16 and ISO 1436 2SN R2 requirements and performance requirements of EN 857 2SC and EN 853 2SN. M2T hose has smaller exterior dimensions and significantly tighter bend radius. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire |
| ***COVER*** | Black, oil, abrasion and weather resistant, synthetic rubber (Nitrile and PVC), with colour coded layline. Also available with unique abrasion resistant MegaTuff® or XtraTuff® covers. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C.. |
| ***COUPLING RECOMMENDATION*** | -4 to -8 - G Series - MegaCrimp® Couplings (B5)<br>-6 and -8 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| M2T-04 | 1/4 | 14.2 | 6000 | 38.1 | 168 |
| M2T-06 | 3/8 | 17.8 | 5000 | 50.8 | 117 |
| M2T-08 | 1/2 | 20.8 | 4300 | 71.1 | 101 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".



(08) 9451 2204

| CM2TDL | SAE100R2 MegaFlex™ Connected Twin-Line 2 Wire Braid Hose - XtraTuff™ Cover |
|---|---|




| | |
|---|---|
| ***RECOMMENDED FOR*** | CM2T Dual-Line hose is recommended for high pressure and return lines such as boom arm and forklift applications, as well as high abrasive high-pressure hydraulic oil lines that are joined together for easier plumbing and routing. CM2T Dual Line hose is compatible with biodegradable hydraulic fluids like polyolester, polyglycols and vegetable oils as well as petroleum-based fluids. CM2TDL-XTF hose has smaller exterior dimensions and significantly tighter bend radius and lasts up to 25 times longer than standard hose during hose-to-hose and hose-to-metal abrasion tests per ISO 6945. Tested to Industry Leading 600,000 impulse cycles. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Black, oil, abrasion and weather resistant, synthetic rubber (XtraTuff® Nitrile), with color coded layline. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. |
| ***COUPLING RECOMMENDATION*** | -6 and -8 - G Series - MegaCrimp® Couplings (B5)<br>-6 and -8 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| CM2TDL-XTF-06 ^^ | 3/8 | 17.8 | 4800 | 88.9 | 66 |
| CM2TDL-XTF-08 ^^ | 1/2 | 20.8 | 4000 | 127 | 55 |

^^ Only Available in Roll/Box quantities
Meets Flame Resistance Acceptance Designation "MSHA 2G".

# Hydraulic Hose



## G2XH — SAE100R2 Gates 2-Wire XTREME® - Hi-Temp




For use on high temp air lines cover must be perforated.

| | |
|---|---|
| ***RECOMMENDED FOR*** | Extremely high-temperature high-pressure hydraulic applications where pressure or temperature requirements exceed SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN or where resistance to either petroleum-base or phosphate ester fluids is required. Meets SAE J1942 requirements. |
| ***TUBE*** | Black, oil and chemical resistant, synthetic rubber (CPE). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Blue, oil and abrasion resistant, thin synthetic rubber (CSM). |
| ***TEMPERATURE RANGE*** | Petroleum-base fluids: -40°C to +149°C. Phosphate esters fluids as recommended by the fluid manufacturer, but within a range of -40°C to +100°C. For water emulsions: Max. +124°C Pressure lines, Max +82°C Return lines. |
| ***COUPLING RECOMMENDATION*** | -4 to -20 - G Series - MegaCrimp® Couplings (B5)<br>-6 to -20- GS Series - GlobalSpiral™ Couplings (B33)<br>-24 to -32 GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| G2XH-04 | 1/4 | 15.0 | 6000 | 101.6 | 168 |
| G2XH-06 | 3/8 | 18.8 | 5000 | 127.0 | 122 |
| G2XH-08 | 1/2 | 21.8 | 4250 | 177.8 | 101 |
| G2XH-10 | 5/8 | 25.1 | 3625 | 203.2 | 67 |
| G2XH-12 | 3/4 | 29.2 | 3100 | 241.3 | 67 |
| G2XH-16 | 1 | 37.6 | 2500 | 304.8 | 50 |
| G2XH-PERFORATED 20 | 1 1/4 | 47.2 | 2250 | 419.1 | 40 |
| G2XH-PERFORATED-24 | 1 1/2 | 54.6 | 1800 | 508.0 | 40 |
| G2XH-PERFORATED-32 | 2 | 67.3 | 1500 | 635.0 | 40 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".


(08) 9451 2204

| ACP | SAE100R2AT High-Temp Textile braid |
|---|---|




| | |
|---|---|
| ***RECOMMENDED FOR*** | Multi-purpose high-pressure, high-temperature, air compressor lines, petroleum-base or phosphate ester hydraulic fluid supply lines. Meets or exceeds the requirements of SAE 100R2. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (CPE). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Blue, oil and abrasion resistant, polyester braid. |
| ***TEMPERATURE RANGE*** | -40°C to +149°C. |
| ***COUPLING RECOMMENDATION*** | -20 - G Series - MegaCrimp® Couplings (B5)<br>-24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| ACP-20 | 1 1/4 | 48.0 | 2250 | 381.0 | 40 |
| ACP-24 | 1 1/2 | 54.1 | 1500 | 508.0 | 40 |
| ACP-32 | 2 | 66.3 | 1300 | 635.0 | 40 |

# Hydraulic Hose



## M3K | SAE 100R17 Gates MEGA3000® Series




| | |
|---|---|
| ***RECOMMENDED FOR*** | High-pressure hydraulic oil lines. Exceeds ISO 18752 Grade B, SAE 100R17 and ISO 11237 R17 working pressure, minimum bend radius requirements and performance requirements of EN 857 1SC. M3K hose has smaller exterior dimensions and significantly tighter bend radius than other SAE 100R1 and 100R2 hose. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Braided, high-tensile steel wire. -4, -5, -6 and -8 sizes are one braid; -10, -12 and -16 sizes are two braid. |
| ***COVER*** | Black, oil, abrasion and weather resistant, synthetic rubber (Nitrile and PVC), with colour coded layline. Also available with unique abrasion resistant MegaTuff® or XtraTuff® covers. |
| ***TEMPERATURE RANGE*** | -40°C to +100°C. |
| ***COUPLING RECOMMENDATION*** | -4 to -16 - G Series - MegaCrimp® Couplings (B5)<br>-6 to -16 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| M3K-04 | 1/4 | 12.2 | 3250 | 38.1 | 134 |
| M3K-06 | 3/8 | 16.0 | 3250 | 50.8 | 101 |
| M3K-08 | 1/2 | 20.3 | 3250 | 71.1 | 67 |
| M3K-10 | 5/8 | 25.1 | 3250 | 76.2 | 67 |
| M3K-12 | 3/4 | 29.2 | 3250 | 96.5 | 67 |
| M3K-16 | 1 | 37.6 | 3250 | 114.3 | 50 |

Meets Flame Resistance Acceptance Designation "MSHA 2G"


(08) 9451 2204

# Multi Spiral / Very High Pressure Hose

**EFG3K** | **SAE100R12 Gates Spiral Wire (3000psi)**




| | |
|---|---|
| ***RECOMMENDED FOR*** | Very high-pressure, high-impulse applications. Exceeds all requirements for ISO 18752 Grade D, SAE 100R12, EN 856 R12, and performance requirements of EN 856 4SP, and ISO 3862 Type R12. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluids. Available in 121' through 200' continuous lengths. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Four alternating layers of spiralled, high-tensile steel wire. |
| ***COVER*** | Black, oil resistant, synthetic rubber (Polychloroprene), with colour coded layline. Also available with unique abrasion resistant MegaTuff® cover. |
| ***TEMPERATURE RANGE*** | -40°C to +121°C. |
| ***COUPLING RECOMMENDATION*** | -24 to -32 GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| EFG3K-24 | 1 1/2 | 53.6 | 3000 | 254.0 | 61 |
| EFG3K-32 | 2 | 66.8 | 3000 | 317.5 | 61 |

For Biodegradable Hydraulic Fluids. Meets Flame Resistance Acceptance Designation "MSHA 2G". Tested to Industry Leading 1,000,000 impulse cycles.

# Hydraulic Hose



## EFG4K — SAE100R12 Gates Spiral Hose (4000psi)




| | |
|---|---|
| ***RECOMMENDED FOR*** | Very high-pressure, high-impulse applications. Exceeds all requirements of ISO 18752 Grade D*, SAE 100R12, EN 856 R12 and ISO 3862 Type R12. *(Sizes 3/8", 1/2" and 5/8" exceed ISO 18752 Grade D performance but does not meet OD requirements). Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluids. Available in 121' through 200' continuous lengths. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Four alternating layers of spiralled, high-tensile steel wire. |
| ***COVER*** | Black, oil resistant, synthetic rubber (Polychloroprene), with colour coded layline. Also available with unique abrasion resistant MegaTuff® or XtraTuff® covers. |
| ***TEMPERATURE RANGE*** | -40°C to +121°C. |
| ***COUPLING RECOMMENDATION*** | -6 to -20 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| EFG4K-06 | 3/8 | 20.3 | 4000 | 63.5 | 91 |
| EFG4K-08 | 1/2 | 23.9 | 4000 | 88.9 | 70 |
| EFG4K-10 | 5/8 | 27.7 | 4000 | 101.6 | 61 |
| EFG4K-12 | 3/4 | 30.7 | 4000 | 119.4 | 61 |
| EFG4K-16 | 1 | 38.1 | 4000 | 152.4 | 61 |
| EFG4K-20 | 1 1/4 | 47 | 4000 | 208.3 | 61 |

For Biodegradable Hydraulic Fluids. Meets Flame Resistance Acceptance Designation "MSHA 2G". Tested to Industry Leading 1,000,000 impulse cycles.



(08) 9451 2204

TRUFLOW HYDRAULIC HOSE AND FITTINGS



## EFG6K — SAE100R15 Gates Spiral Hose (6000psi)




| | |
|---|---|
| ***RECOMMENDED FOR*** | Extremely high-pressure, high-impulse applications such as hydrostatic transmissions. EFG6K is designed to meet or exceed all requirements of SAE 100R15 specifications and performance requirements of EN 856 4SP (-6, -8, -10 and -12), EN 856 4SH (-12, -16, and -20) and ISO 3862 Type R15 (-6, -8, -10, -12, -16, -24). Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum-based fluids. Available in 121' through 200' continuous lengths. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Four (six for -20, -24 and -32) alternating layers of spiralled, high-tensile steel. |
| ***COVER*** | Black, oil resistant, synthetic rubber (Polychloroprene), with colour coded layline. Also available with unique abrasion resistant MegaTuff® cover. |
| ***TEMPERATURE RANGE*** | -40°C to +121°C. |
| ***COUPLING RECOMMENDATION*** | -6 to -20 - GS Series - GlobalSpiral™ Couplings (B33)<br>-24 to -32 - GSM - GlobalSpiral™ MAX Pressure Couplings (B71) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| EFG6K-06 | 3/8 | 20.3 | 6000 | 63.5 | 91 |
| EFG6K-08 | 1/2 | 24.1 | 6000 | 88.9 | 70 |
| EFG6K-10 | 5/8 | 27.7 | 6000 | 101.6 | 30 |
| EFG6K-12 | 3/4 | 31.5 | 6000 | 119.4 | 61 |
| EFG6K-16 | 1 | 38.9 | 6000 | 152.4 | 61 |
| EFG6K-20 | 1 1/4 | 50.0 | 6000 | 208.3 | 61 |
| EFG6K-24 | 1 1/2 | 57.4 | 6000 | 254.0 | 61 |
| EFG6K-32 | 2 | 71.1 | 6000 | 635.0 | 61 |

For Biodegradable Hydraulic Fluids. Meets Flame Resistance Acceptance Designation "MSHA 2G". Tested to Industry Leading 1,000,000 impulse cycles.

# Hydraulic Hose



**MXG4K-XTP** | **SAE100R12&19 Gates MEGASYS XTRATUFF (4000psi)**




- ✓ Proprietary application of materials science and processing technology
- ✓ Exceeds performance criteria of ISO 18752 280DC, SAE 100R12, EN856 R12, and ISO 3862 R12; size -16 also rated for EN856 4S
- ✓ For inventory consolidation, also exceeds SAE 100R19
- ✓ 1,000,000 cycle impulse life exceeds industry standards (2X spiral and 5X wire braid standards) with GS couplings
- ✓ Impulse tested to the same parameters as Gates EFG4K spiral hose (pressure, temperature and bend radius)
- ✓ Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 40% better and OD is 8% smaller
- ✓ 30% lighter weight for easier handling and installation
- ✓ Gates XtraTuff™ Plus cover comes standard on MXG, providing abrasion and ozone resistance
- ✓ Utilises Gates GS GlobalSpiral™ couplings compatible with Gates Crimpers.

| | |
|---|---|
| ***RECOMMENDED FOR*** | Very high-pressure, high-impulse abrasive applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluids. |
| ***TUBE*** | Black, oil resistant, synthetic rubber tube |
| ***REINFORCEMENT*** | Xpiral™ woven spiral construction with four layers of high-tensile steel wire reinforcement; black, oil-resistant, synthetic rubber tube. |
| ***COVER*** | Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover. |
| ***TEMPERATURE RANGE*** | -40°C to +121°C |
| ***COUPLING RECOMMENDATION*** | -6 to - 12 - G Series - MegaCrimp® Couplings (B5)<br>-6 to -16 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| MXG4K-XTP-06 | 3/8 | 17.7 | 4060 | 65.0 | 101 |
| MXG4K-XTP-08 | 1/2 | 20.7 | 4060 | 90.0 | 67 |
| MXG4K-XTP-10 | 5/8 | 25.2 | 4060 | 100.0 | 67 |
| MXG4K-XTP-12 | 3/4 | 28.9 | 4060 | 120.0 | 67 |
| MXG4K-XTP-16 | 1 | 38.0 | 4060 | 150.0 | 50 |

MDG41 & FRAS Certified

**MXG5K-XTP** | **SAE100R13&19 Gates MEGASYS XTRATUFF (5000psi)**




- ✓ Proprietary application of materials science and processing technology
- ✓ MXG 5K is 350 bar working pressure or 5075 psi in sizes 6 - 12.
- ✓ Exceeds performance criteria of ISO 18752 350DC, SAE 100R13, EN856 R13, and ISO 3862 R13; sizes -10, -12
- ✓ 1,000,000 cycle impulse life exceeds industry standards for longevity in the factory or field
- ✓ Compact construction with excellent flexibility and lower force-to-bend for faster and more ergonomic installation (force-to-bend is 25% better and OD is 5% smaller)
- ✓ 20% lighter weight for easier handling and installation
- ✓ Gates XtraTuff Plus cover comes standard on MXG, providing abrasion and ozone resistance
- ✓ Utilises Gates GS GlobalSpiral™ couplings; compatible with Gates Crimpers

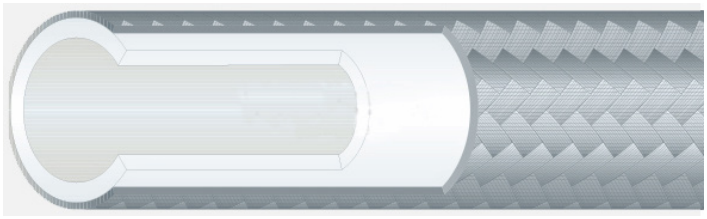
| | |
|---|---|
| ***RECOMMENDED FOR*** | Extremely high-pressure, high-impulse abrasive applications. Compatible with biodegradable hydraulic fluids like polyolester, polyglycol and vegetable oil as well as standard petroleum based fluids. |
| ***TUBE*** | Black, oil resistant, synthetic rubber tube |
| ***REINFORCEMENT*** | Xpiral™ woven spiral construction with four layers of high-tensile steel wire reinforcement; black, oil-resistant, synthetic rubber tube. |
| ***COVER*** | Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover. |
| ***TEMPERATURE RANGE*** | -40°C to +121°C |
| ***COUPLING RECOMMENDATION*** | -6, - 8 - G Series - MegaCrimp® Couplings (B5)<br>-6 to -16 - GS Series - GlobalSpiral™ Couplings (B33) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| MXG5K-XTP-06 | 3/8 | 18.0 | 5075 | 65.0 | 101 |
| MXG5K-XTP-08 | 1/2 | 21.6 | 5075 | 90.0 | 67 |
| MXG5K-XTP-10 | 5/8 | 26.1 | 5075 | 100.0 | 67 |
| MXG5K-XTP-12 | 3/4 | 29.6 | 5075 | 120.0 | 67 |
| MXG5K-XTP-16 | 1 | 38.7 | 5075 | 150.0 | 50 |

MDG41 & FRAS Certified

## PTFE Hose

**STH** | **SAER14 S/S Braid Teflon Hose**



| | |
|---|---|
| ***RECOMMENDED FOR*** | Air compressor discharge, hot oil and fluids, hot and greasy environments. |
| ***TUBE*** | Type B–Conductive black/white smooth bore Polytetrafluoroethylene (PTFE). |
| ***REINFORCEMENT*** | 304 grade stainless steel |
| ***COVER*** | The reinforcement braid serves as the outer cover |
| ***TEMPERATURE RANGE*** | Dynamic: -54°C to +204°C. Static: -54°C to +232°C. |
| ***COUPLING RECOMMENDATION*** | Crimp Fittings with CT Ferrule (B85) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) |
|---|---|---|---|---|
| STH-04 | 1/4 | 9.0 | 1500 | 76.0 |
| STH-06 | 3/8 | 12.5 | 1500 | 127.0 |
| STH-08 | 1/2 | 16.0 | 1000 | 152.0 |
| STH-10 | 5/8 | 20.0 | 800 | 178.0 |
| STH-12 | 3/4 | 23.0 | 800 | 203.0 |
| STH-16 | 1 | 29.5 | 800 | 305.0 |

# Speciality Hose

## BRFS /RFS — SAE100R1 Gates Red Fire Suppressant Hose

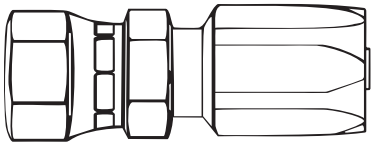



| | |
|---|---|
| ***RECOMMENDED FOR*** | BRFS - Activation circuit for loss-of-pressure (LOP) used predominately in fire suppression systems. LOP (Loss-of-Pressure) systems are activated by the loss of nitrogen (under pressure) from a charged activation circuit.<br>RFS - Low-pressure powder fire suppressant applications in mining, forestry and fire fighting equipment. The red cover is for easy visual identification in these applications. Meets performance requirements of SAE 100R1. |
| ***TUBE*** | BRFS - Black thermoplastic barrier liner<br>RFS - Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | One braid of high-tensile steel wire. |
| ***COVER*** | Red, oil and abrasion resistant (Nitrile and PVC). |
| ***TEMPERATURE RANGE*** | BRFS - -40°C to +100°C<br>RFS - -40°C to +100°C |
| ***COUPLING RECOMMENDATION*** | BRFS-3 Brass field-attachable (Below)<br>-4 to -16 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| BRFS-03 | 3/16 | 11.9 | 500 | 25.4 | 134 |
| RFS-03 | 3/16 | 11.4 | 3000 | 76.2 | 134 |
| RFS-04 | 1/4 | 13.5 | 2750 | 101.6 | 134 |
| RFS-06 | 3/8 | 17.3 | 2250 | 127.0 | 91 |
| RFS-08 | 1/2 | 20.3 | 2000 | 177.8 | 101 |
| RFS-12 | 3/4 | 27.7 | 1250 | 241.3 | 91 |
| RFS-16 | 1 | 35.8 | 1000 | 303.8 | 50 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

## C1T -RFJXB — JIC Female Swivel X Field Attachable - BRASS



| Part # | JIC F | Hose ID |
|---|---|---|
| 4RFJXB-3C1T | 7/16 | 3/16 |

## PW6000 Gates Pressure Washer Hose




| | |
|---|---|
| ***RECOMMENDED FOR*** | Pressure washer hoses are designed to handle hot and cold water in high-pressure cleaning equipment where heavy-duty service is required. Specially compounded cover provides long service life in harsh pressure washer environments. |
| ***TUBE*** | Type C (Nitrile). Black. |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Type C2 (Modified Nitrile). |
| ***TEMPERATURE RANGE*** | -40°C to +121°C |
| ***COUPLING RECOMMENDATION*** | -6 - G Series - MegaCrimp® Couplings (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| PW6000BLUE-06 | 3/8 | 16.3 | 6000 | 635.0 | 91 |

## RJ2SN River Jet Pressure Washer Hose



| | |
|---|---|
| ***RECOMMENDED FOR*** | High pressure hose for pressure washer applications, exceeds EN1829-2 and ISO 7751 class 6<br>Dimensions and tolerances acc. to DIN EN 853 2SN<br>For cold and hot water up to 155°C (310°F). |
| ***TUBE*** | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Non marking, Blue abrasion and ozone resistant synthetic rubber. With embossed tape. Product Safety AFPS GS 2019:01 / Category 2 b.) |
| ***TEMPERATURE RANGE*** | -10°C to +155°C |
| ***COUPLING RECOMMENDATION*** | -6 - 2 Piece Economy Range (B5) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| RJ2SN-06 | 3/8 | 13.4 | 5800 | 115 | 140 |

Not suitable for steam and oil hydraulic applications

# Hydraulic Hose



## PS — SAEJ2050 Gates Power Steering Hose




| | |
|---|---|
| ***RECOMMENDED FOR*** | Power steering pressure lines. Designed to meet requirements of SAE J2050 specifications. |
| ***TUBE*** | Synthetic rubber specially compounded to provide resistance to high temperatures and power steering fluid, |
| ***REINFORCEMENT*** | Two high strength nylon braids that resist high temperatures and allow for expansion for system noise dampening. |
| ***COVER*** | Black, synthetic rubber developed specifically to resist under hood environment (CSM). |
| ***TEMPERATURE RANGE*** | -40°C to +150°C. |
| ***COUPLING RECOMMENDATION*** | Permanent Power Steering Couplings (G50) Section S (See Crimp Data Manual 428-7365 or eCrimp) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| PS-188-06 | 3/8 | 18 | 1500 | 82.6 | 15 |



(08) 9451 2204

## J2AT | Gates Jacking Hose (10000psi)




| | |
|---|---|
| ***RECOMMENDED FOR*** | Hydraulic jack applications. Meets Material Handling Institute specification IJ100 for hydraulic hose and assemblies used with jacking systems. 10,000psi Static Pressure Only. |
| ***TUBE*** | Black, oil resistant, synthetic rubber (Nitrile). |
| ***REINFORCEMENT*** | Two braids of high-tensile steel wire. |
| ***COVER*** | Black, oil and abrasion resistant, synthetic rubber (Nitrile and PVC). Also available with unique abrasion resistant MegaTuff® cover. |
| ***TEMPERATURE RANGE*** | -40°C to +49°C. |
| ***COUPLING RECOMMENDATION*** | -4 to -6 - G Series - MegaCrimp® Couplings (B5) Male Pipe Long Nose Couplings on jack end of assembly for engagement. |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| J2AT-04 | 1/4 | 15 | 10000 | 50.8 | 107 |
| J2AT-06 | 3/8 | 18.8 | 10000 | 63.5 | 101 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

## Suction / Return Hose

**GMV-MEGAFLEX** | **SAE100R4 Gates Multi Master Return Line and Suction Hose**

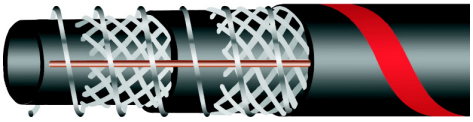



| | |
|---|---|
| ***RECOMMENDED FOR*** | Meets or exceeds SAE 100R4. Meets SAE J30R5 and SAE J20R5* (*except tube dimensions). Applications requiring excellent flexibility and maximum resistance to air, water, coolant, petroleum lubricating oils, and refined fuels. Ideal for hydraulic return and suction lines, transferring refined fuels or other petroleum products, and coolant lines. |
| ***TUBE*** | Type C (Nitrile). Black. |
| ***REINFORCEMENT*** | Synthetic, high tensile textile reinforcement with steel wire helix. |
| ***COVER*** | Type A (Polychloroprene). Black, corrugated. |
| ***TEMPERATURE RANGE*** | −40°C to +135°C. Warning: Do not convey fuels over +49°C and for coolant applications (20R5) max temperature is +100°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>-12 to -20 - G Series - MegaCrimp® Couplings (B5)<br>-24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| GMV-MEGAFLEX-12 | 3/4 | 30.5 | 350 | 20.3 | 30 |
| GMV-MEGAFLEX-16 | 1 | 35.8 | 300 | 25.4 | 30 |
| GMV-MEGAFLEX-20 | 1 1/4 | 42.2 | 250 | 33.2 | 30 |
| GMV-MEGAFLEX-24 | 1 1/2 | 48.3 | 150 | 38.1 | 30 |
| GMV-MEGAFLEX-32 | 2 | 60.7 | 150 | 50.8 | 30 |
| GMV-MEGAFLEX-40 | 2 1/2 | 74.7 | 150 | 63.5 | 30 |
| GMV-MEGAFLEX-48 | 3 | 87.4 | 150 | 76.2 | 30 |
| GMV-MEGAFLEX-64 | 4 | 113.8 | 150 | 101.6 | 30 |
| GMV-MEGAFLEX-96 | 6 | 166.4 | 150 | 152.4 | 30 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

## TFSR Suction Retrun Hose



| | |
|---|---|
| ***RECOMMENDED FOR*** | Designed for use in petroleum suction and discharge applications. Also suitable as a heavy duty wet marine exhaust hose. |
| ***TUBE*** | Black Nitrile Rubber Blend |
| ***REINFORCEMENT*** | Dual High Tensile Steel Wire Helix and a High Tensile Synthetic Braid |
| ***COVER*** | Black Nitrile Rubber Blend with a Red Stripe. |
| ***TEMPERATURE RANGE*** | -20°C to 70°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| TFSR-12 | 3/4 | 28 | 150 | 160.0 | 20 |
| TFSR-16 | 1 | 35 | 150 | 200.0 | 20 |
| TFSR-20 | 1 1/4 | 42 | 150 | 256.0 | 20 |
| TFSR-24 | 1 1/2 | 48 | 150 | 304.0 | 20 |
| TFSR-32 | 2 | 63 | 150 | 400.0 | 20 |
| TFSR-40 | 2 1/2 | 77 | 150 | 504.0 | 20 |
| TFSR-48 | 3 | 89 | 150 | 608.0 | 20 |
| TFSR-56 | 3 1/2 | 105 | 150 | 720.0 | 20 |
| TFSR-64 | 4 | 118 | 150 | 816.0 | 20 |
| TFSR-96 | 6 | 170 | 150 | 1824.0 | 20 |

# Hydraulic Hose






(08) 9451 2204

# B - Hose Fittings

## Contents

### Gates Range

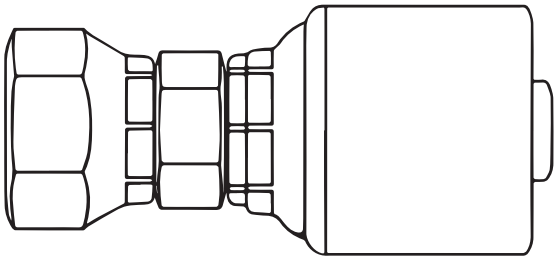
Gates MegaCrimp - G Series . . . . . B5
Gates GlobalSpiral - GS Series . . . . . B33
Gates GlobalSpiral Plus - GSP Series . . . . . B59
Gates GlobalSpiral MAX - GSM Series . . . . . B71

### Economical Range

Two Piece Crimp Tails . . . . . B81
Field Attachable . . . . . B107
R5 Field Attachable . . . . . B115
Push Lock Tails . . . . . B119
Suction Tails . . . . . B125

# Hose Fittings





| 8 | F | J | X | | | - | 8 | G |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 |

## 1 Thread Sizes

| Dash | IMPERIAL | | | | | METRIC | | | |
|---|---|---|---|---|---|---|---|---|---|
| | BSP / NPT / JIS (BSPP) | JIC / UNO | ORFS | SAE | FLANGE | Metric Light (L) | Metric Heavy (H) | Metric Banjo | Komatsu JIS |
| 2 | 1/8 | | | | | | | | |
| 3 | 3/16 | 3/8 | | | | | | | |
| 4 | 1/4 | 7/16 | 9/16 | 5/8 | | | | | M14X1.5 |
| 5 | 5/16 | 1/2 | | | | | | | |
| 6 | 3/8 | 9/16 | 11/16 | | 3/8 | M12X1.5 (6L) | M14X1.5 (6S) | | M18X1.5 |
| 8 | 1/2 | 3/4 | 13/16 | | 1/2 | M14X1.5 (8L) | M16X1.5 (8S) | | M22X1.5 |
| 10 | 5/8 | 5/8 | 1 | 7/8 | | M16X1.5 (10L) | M18X1.5 (10S) | 10.1mm | M24X1.5 |
| 12 | 3/4 | 1 1/16 | 1 7/16 | 1 1/16 | 3/4 | M18X1.5 (12L) | M20X1.5 (12S) | 12.1mm | M30X1.5 |
| 14 | | | | | | | M22X1.5 (14S) | 14mm | |
| 15 | | | | | | M22X1.5 (15L) | | | |
| 16 | 1 | 1 5/16 | 1 7/16 | | 1 | | M24X1.5 (16S) | 16mm | M33X1.5 |
| 18 | | | | | | M26X1.5 (18L) | | 18mm | |
| 20 | 1 1/4 | 1 5/8 | 1 11/16 | | 1 1/4 | | M30X2 (20S) | | |
| 22 | | | | | | M30X2 (22L) | | | |
| 24 | 1 1/2 | 1 7/8 | 2 | | 1 1/2 | | | | |
| 25 | | | | | | | M36X2 (25S) | | |
| 28 | | | | | | M36X2 (28L) | | | |
| 30 | | | | | | | M42X2 (30S) | | |
| 32 | 2 | 2 1/2 | | | 2 | | | | |
| 35 | | | | | | M45X2 (35L) | | | M36X1.5 |
| 38 | | | | | | | M52X2 (38S) | | M42X1.5 |
| 42 | | | | | | M52X2 (42L) | | | |



(08) 9451 2204

## 2 Thread Gender

| | |
|---|---|
| F | Female |
| M | Male |

*Omit if flange end

## 3 Thread Type

| | |
|---|---|
| B | Boss (UNO) |
| BSPBJ | BSP Banjo |
| BSPOR | BSPP (w/o-ring (female only)) |
| BSPP | BSPP |
| BSPT | BSPT (without 60° cone seat) |
| BSPTSP | BSPT (with 60° cone seat) |
| DBJ | Metric Banjo |
| DH | Metric Heavy (S) |
| DL | Metric Light (L) |
| FOR | ORFS (O-Ring Flat Face) |
| K | Komatsu (Metric JIS) |
| FL | Code 61 O-Ring Flange |
| FLC | Caterpillar O-Ring Flange |
| FLH | Code 62 O-Ring Flange |
| HLE | Hose Length Extender |
| I | SAE Inverted Flare |
| J | JIC |
| JIS | JIS (BSPP) |
| P | NPT |
| PW | Pressure Washer |
| S | SAE |

## 4 Swivel

| | |
|---|---|
| X | Swivel |

*Omit if fixed

## 5 Degree of Bend

| | |
|---|---|
| 22 | 22-1/2° Bent Tube Angle |
| 30 | 30° Bent Tube Angle |
| 45 | 45° Bent Tube Angle |
| 60 | 60° Bent Tube Angle |
| 67 | 67-1/2° Bent Tube Angle |
| 90 | 90° Bent Tube Angle |
| 100 | 100° Bent Tube Angle |
| 110 | 110° Bent Tube Angle |
| 120 | 120° Bent Tube Angle |
| 125 | 125° Bent Tube Angle |
| 135 | 135° Bent Tube Angle |

*Omit if Straight

## 6 Drop Length

| | |
|---|---|
| S | Short Drop |
| M | Medium Drop |
| L | Long Drop |
| -### | Length of Drop EG -89 = 89MM Drop |

Example of JIC

| Hose Size | Short Drop mm | Medium Drop mm | Long Drop mm |
|---|---|---|---|
| -4 | 21 | 32 | 46 |
| -5 | 21 | 32 | 46 |
| -6 | 23 | 38 | 54 |
| -8 | 29 | 41 | 64 |
| -10 | 32 | 47 | 70 |
| -12 | 48 | 58 | 96 |
| -16 | 56 | 71 | 114 |
| -20 | 64 | 78 | 129 |
| -24 | 69 | 86 | 141 |
| -32 | 88 | 140 | 222 |

Example of Flange Code 61 and 62

| Hose Size | Short Drop mm | Medium Drop mm | Long Drop mm |
|---|---|---|---|
| -8 | - | 40 | 99 |
| -12 | - | 58 | 133 |
| -16 | 61 | 70 | 154 |
| -20 | 68 | 90 | 189 |
| -24 | 81 | 104 | 220 |
| -32 | 120 | 138 | 275 |

## 7 Hose Size

| | |
|---|---|
| 4 | 1/4" |
| 5 | 5/16" |
| 6 | 3/8" |
| 8 | 1/2" |
| 10 | 5/8" |
| 12 | 3/4" |
| 16 | 1" |
| 20 | 1 1/4" |
| 24 | 1 1/2" |
| 32 | 2" |
| 40 | 2 1/2" |

*Excludes R5 (non true bore hose)

## 8 Stem Type

| | |
|---|---|
| G | MegaCrimp - G Series |
| GS | GlobalSpiral - GS Series |
| GSM | GlobalSpiral MAX - GSM Series |
| GSP | GlobalSpiral MAX - GSP Series |

# MegaCrimp® Couplings: Any Other Coupling is a Compromise!

## Have a Crimp Seal You Can Count On

The majority of hydraulic hose failures occur at the couplings due to blow-offs or leaks. Gates has designed and engineered innovative, robust couplings for MegaSys hose that provide connections you can count on for superior performance – guaranteed.





**Key Features**

- Robust "bite-the-wire" crimp
- Low profile
- Full-stem insertion
- Full-length crimp
- Tested to an industry-leading 1 million impulse cycles
- Simplifies inventory management
- Environmentally-friendly TuffCoat® plating for 347% better corrosion resistance SAE Standard




## MegaCrimp - The Versatile "No-Weep" Coupling with the Patented "C" Insert

It's what's inside the pre-assembled MegaCrimp® coupling that gives it world-class, leak-proof performance. It is designed with a patented "C" insert, attached to the ferrule, that accommodates hose of different constructions and wall thicknesses. The insert's design ensures crimping forces are evenly distributed to form a concentric seal.
The "C" insert simplifies inventory requirements since one MegaCrimp coupling size can accommodate various hose outside diameters, on both one- and two-wire braid hydraulic hose.

# Gates MegaCrimp - G Series

## Contents


BSP MegaCrimp Tails . . . . . B6

JIC MegaCrimp Tails . . . . . B9

JIS MegaCrimp Tails . . . . . B14

Metric MegaCrimp Tails . . . . . B15

NPT MegaCrimp Tails . . . . . B21

ORFS MegaCrimp Tails . . . . . B23

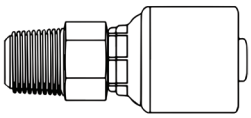
SAE MegaCrimp Tails . . . . . B26

UNO MegaCrimp Tails . . . . . B28

Flanged MegaCrimp Tails . . . . . B29

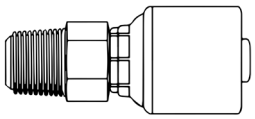
## BSP MegaCrimp Tails

### G-MBSPTSP — Male British Standard Pipe Tapered (BSPT - 60° Cone Seat)



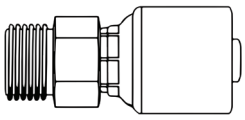
| Part # | BSPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 2MBSPTSP-4G | 1/8-28 | 1/4 | 22.0 |
| 4MBSPTSP-4G | 1/4-19 | 1/4 | 27.0 |
| 6MBSPTSP-4G | 3/8-19 | 1/4 | 29.0 |
| 6MBSPTSP-6G | 3/8-19 | 3/8 | 29.1 |
| 8MBSPTSP-6G | 1/2-14 | 3/8 | 36.1 |
| 8MBSPTSP-8G | 1/2-14 | 1/2 | 36.5 |
| 12MBSPTSP-12G | 3/4-14 | 3/4 | 34.0 |
| 16MBSPTSP-16G | 1-11 | 1 | 43.2 |

### G-MBSPT — Male British Standard Pipe Tapered Thread (BSPT) / JIS Tapered



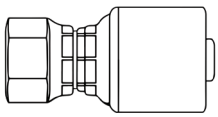
| Part # | BSPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 10MBSPT-10G | 5/8-14 | 5/8 | 32.5 |

### G-MBSPP — Male British Standard Parallel Pipe (BSPP - 60° Cone Seat)



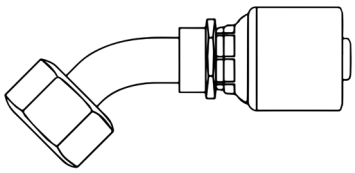
| Part # | BSPP M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MBSPP-4G | 1/4-19 | 1/4 | 25.4 |
| 4MBSPP-6G | 1/4-19 | 3/8 | 27.8 |
| 6MBSPP-4G | 3/8-19 | 1/4 | 27.8 |
| 6MBSPP-6G | 3/8-19 | 3/8 | 27.1 |
| 6MBSPP-8G | 3/8-19 | 1/2 | 26.0 |
| 8MBSPP-6G | 1/2-14 | 3/8 | 32.1 |
| 8MBSPP-8G | 1/2-14 | 1/2 | 31.5 |
| 10MBSPP-10G | 5/8-14 | 5/8 | 34.5 |
| 12MBSPP-10G | 3/4-14 | 5/8 | 36.5 |
| 12MBSPP-12G | 3/4-14 | 3/4 | 39.0 |
| 16MBSPP-16G | 1-11 | 1 | 44.2 |
| 20MBSPP-20G | 1 1/4-11 | 1 1/4 | 51.0 |

## G-FBSPORX — Female British Standard Parallel Pipe O-Ring Swivel



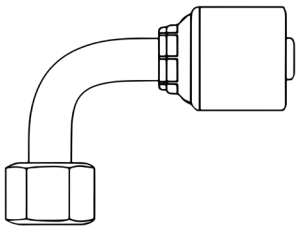
| Part # | BSPP F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 2FBSPPX-4G | 1/8-28 | 1/4 | 18.0 |
| 4FBSPORX-4G | 1/4-19 | 1/4 | 31.1 |
| 6FBSPORX-4G | 3/8-19 | 1/4 | 20.6 |
| 6FBSPORX-6G | 3/8-19 | 3/8 | 16.2 |
| 6FBSPORX-8G | 3/8-19 | 1/2 | 29.0 |
| 8FBSPORX-6G | 1/2-14 | 3/8 | 17.9 |
| 8FBSPORX-8G | 1/2-14 | 1/2 | 17.8 |
| 10FBSPORX-8G | 5/8-14 | 1/2 | 19.8 |
| 10FBSPORX-10G | 5/8-14 | 5/8 | 18.5 |
| 12FBSPORX-8G | 3/4-14 | 1/2 | 21.5 |
| 12FBSPORX-10G | 3/4-14 | 5/8 | 20.5 |
| 12FBSPORX-12G | 3/4-14 | 3/4 | 20.6 |
| 16FBSPORX-12G | 1-11 | 3/4 | 22.3 |
| 16FBSPORX-16G | 1-11 | 1 | 39.2 |
| 20FBSPORX-20G | 1 1/4-11 | 1 1/4 | 29.5 |

## G-FBSPORX45 — Female British Standard Parallel Pipe O-Ring Swivel - 45° Bent Tube



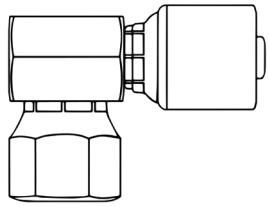
| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FBSPORX45-4G | 1/4-19 | 1/4 | 11.5 | 31.1 |
| 6FBSPORX45-4G | 3/8-19 | 1/4 | 15.4 | 37.8 |
| 6FBSPORX45-6G | 3/8-19 | 3/8 | 15.2 | 39.0 |
| 8FBSPORX45-6G | 1/2-14 | 3/8 | 19.3 | 43.0 |
| 8FBSPORX45-8G | 1/2-14 | 1/2 | 17 | 44.0 |
| 10FBSPORX45-8G | 5/8-14 | 1/2 | 23 | 52.3 |
| 10FBSPORX45-10G | 5/8-14 | 5/8 | 21.3 | 52.1 |
| 12FBSPORX45-10G | 3/4-14 | 5/8 | 32.2 | 62.0 |
| 12FBSPORX45-12G | 3/4-14 | 3/4 | 28.3 | 64.4 |
| 16FBSPORX45-16G | 1-11 | 1 | 30.9 | 78.8 |
| 20FBSPORX45-20G | 1 1/4-11 | 1 1/4 | 37.5 | 93.4 |

## G-FBSPORX90 — Female British Standard Parallel Pipe O-Ring Swivel - 90° Bent Tube



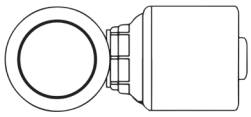
| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FBSPORX90-4G | 1/4-19 | 1/4 | 23.3 | 26.5 |
| 6FBSPORX90-4G | 3/8-19 | 1/4 | 32 | 27.0 |
| 6FBSPORX90-6G | 3/8-19 | 3/8 | 32 | 34.0 |
| 8FBSPORX90-6G | 1/2-14 | 3/8 | 37.5 | 32.2 |
| 8FBSPORX90-8G | 1/2-14 | 1/2 | 37.3 | 40.5 |
| 10FBSPORX90-8G | 5/8-14 | 1/2 | 46.0 | 42.8 |
| 10FBSPORX90-10G | 5/8-14 | 5/8 | 46.0 | 46.6 |
| 12FBSPORX90-10G | 3/4-14 | 5/8 | 60 | 46.6 |
| 12FBSPORX90-12G | 3/4-14 | 3/4 | 60 | 56.0 |
| 16FBSPORX90-12G | 1-11 | 3/4 | 70 | 61.2 |
| 16FBSPORX90-16G | 1-11 | 1 | 70 | 74.3 |
| 20FBSPORX90-20G | 1 1/4-11 | 1 1/4 | 80 | 82.8 |

## G-FBSPORX90BL — Female British Standard Parallel Pipe O-Ring Swivel - 90° Block



| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FBSPORX90BL-4G | 1/4-19 | 1/4 | 18.0 | 18.2 |
| 6FBSPORX90BL-4G | 3/8-19 | 1/4 | 21.5 | 22.0 |
| 6FBSPORX90BL-6G | 3/8-19 | 3/8 | 21 | 23.0 |
| 8FBSPORX90BL-6G | 1/2-14 | 3/8 | 24 | 23.5 |
| 8FBSPORX90BL-8G | 1/2-14 | 1/2 | 24 | 23.5 |
| 10FBSPORX90BL-10G | 5/8 - 14 | 5/8 | 27.6 | |
| 12FBSPORX90BL-12G | 3/4-14 | 3/4 | 34.5 | 27.0 |
| 16FBSPORX90BL-16G | 1-11 | 1 | 27 | 34.6 |

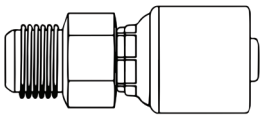
## G-BSPBJ — British Standard Pipe Banjo



| Part # | Banjo | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4BSPBJ-4G | 1/4 | 1/4 | 30.3 |
| 6BSPBJ-6G | 3/8 | 3/8 | 32.4 |
| 8BSPBJ-8G | 1/2 | 1/2 | 38.2 |
| 12BSPBJ-12G | 3/4 | 3/4 | 43.7 |

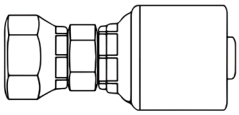
# JIC MegaCrimp Tails

**G-MJ** | **Male JIC 37° Flare**



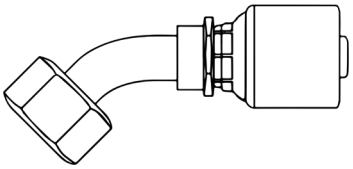
| Part # | JIC M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MJ-4G | 7/16-20 | 1/4 | 29.5 |
| 5MJ-4G | 1/2-20 | 1/4 | 29.5 |
| 6MJ-4G | 9/16-18 | 1/4 | 30.5 |
| 6MJ-6G | 9/16-18 | 3/8 | 30.6 |
| 8MJ-6G | 3/4-16 | 3/8 | 35.1 |
| 8MJ-8G | 3/4-16 | 1/2 | 34.0 |
| 8MJ-10G | 3/4-16 | 5/8 | 37.0 |
| 10MJ-6G | 7/8-14 | 3/8 | 39.1 |
| 10MJ-8G | 7/8-14 | 1/2 | 36.5 |
| 10MJ-10G | 7/8-14 | 5/8 | 39.5 |
| 10MJ-12G | 7/8-14 | 3/4 | 42.5 |
| 12MJ-8G | 1 1/16-12 | 1/2 | 43.5 |
| 12MJ-10G | 1 1/16-12 | 5/8 | 43.5 |
| 12MJ-12G | 1 1/16-12 | 3/4 | 43.5 |
| 14MJ-12G | 1 3/16-12 | 3/4 | 44.5 |
| 14MJ-16G | 1 3/16-12 | 1 | 47.2 |
| 16MJ-12G | 1 5/16-12 | 3/4 | 45.0 |
| 16MJ-16G | 1 5/16-12 | 1 | 47.7 |
| 20MJ-16G | 1 5/8-12 | 1 | 52.2 |
| 20MJ-20G | 1 5/8-12 | 1 1/4 | 53.5 |
| 24MJ-20G | 1 7/8-12 | 1 1/4 | 53.5 |

## G-FJX — Female JIC 37° Flare Swivel



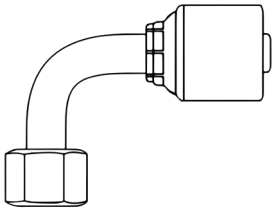
| Part # | JIC F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FJX-4G | 7/16-20 | 1/4 | 29.9 |
| 4FJX-6G | 7/16-20 | 3/8 | 46.8 |
| 5FJX-4G | 1/2-20 | 1/4 | 32.3 |
| 5FJX-5G | 1/2-20 | 5/16 | 34.1 |
| 5FJX-6G | 1/2-20 | 3/8 | 47.3 |
| 6FJX-4G | 9/16-18 | 1/4 | 33.6 |
| 6FJX-5G | 9/16-18 | 5/16 | 35.6 |
| 6FJX-6G | 9/16-18 | 3/8 | 32.7 |
| 6FJXSP-8G | 9/16-18 | 1/2 | 30.3 |
| 8FJX-6G | 3/4-16 | 3/8 | 37.9 |
| 8FJX-8G | 3/4-16 | 1/2 | 38.0 |
| 8FJX-10G | 3/4-16 | 5/8 | 36.1 |
| 8FJX-12G | 3/4-16 | 3/4 | 38.1 |
| 10FJX-6G | 7/8-14 | 3/8 | 41.2 |
| 10FJX-8G | 7/8-14 | 1/2 | 41.3 |
| 10FJX-10G | 7/8-14 | 5/8 | 42.2 |
| 10FJX-12G | 7/8-14 | 3/4 | 71.0 |
| 12FJX-6G | 1 1/16-12 | 3/8 | 46.0 |
| 12FJX-8G | 1 1/16-12 | 1/2 | 42.5 |
| 12FJX-10G | 1 1/16-12 | 5/8 | 43.9 |
| 12FJX-12G | 1 1/16-12 | 3/4 | 44.0 |
| 12FJX-16G | 1 1/16-12 | 1 | 45.2 |
| 14FJX-10G | 1 3/16-12 | 5/8 | 48.6 |
| 14FJX-12G | 1 3/16-12 | 3/4 | 45.9 |
| 16FJX-12G | 1 5/16-12 | 3/4 | 46.9 |
| 16FJX-16G | 1 5/16-12 | 1 | 51.0 |
| 20FJX-16G | 1 5/8-12 | 1 | 58.5 |
| 20FJX-20G | 1 5/8-12 | 1 1/4 | 53.3 |
| 24FJX-20G | 1 7/8-12 | 1 1/4 | 64.4 |

## G-FJX45 Female JIC 37° Flare Swivel - 45° Bent Tube



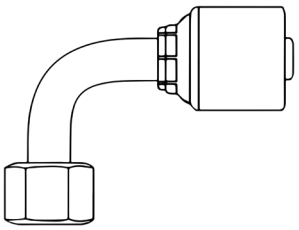
| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FJX45S-4G | 7/16-20 | 1/4 | 10.0 | 43.7 |
| 4FJX45S-6G | 7/16-20 | 3/8 | 10.0 | 44.8 |
| 5FJX45-011-4G | 1/2-20 | 1/4 | 11.0 | 39.7 |
| 6FJX45S-4G | 9/16-18 | 1/4 | 11.0 | 42.3 |
| 6FJX45S-6G | 9/16-18 | 3/8 | 11.0 | 49.6 |
| 8FJX45S-6G | 3/4-16 | 3/8 | 15.0 | 61.2 |
| 8FJX45S-8G | 3/4-16 | 1/2 | 15.0 | 49.5 |
| 10FJX45S-8G | 7/8-14 | 1/2 | 16.0 | 59.4 |
| 10FJX45S-10G | 7/8-14 | 5/8 | 16.0 | 59.0 |
| 10FJX45S-12G | 7/8-14 | 3/4 | 19.1 | 65.3 |
| 12FJX45S-10G | 1 1/16-12 | 5/8 | 21.0 | 78.5 |
| 12FJX45S-12G | 1 1/16-12 | 3/4 | 21.0 | 78.2 |
| 12FJX45S-16G | 1 1/16-12 | 1 | 21.0 | 82.4 |
| 16FJX45S-12G | 1 5/16-12 | 3/4 | 24.0 | 82.1 |
| 16FJX45S-16G | 1 5/16-12 | 1 | 24.0 | 87.5 |
| 20FJX45-035-20G | 1 5/8-12 | 1 1/4 | 35.0 | 110.0 |

## G-FJX90 — Female JIC 37° Flare Swivel - 90° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FJX90S-4G | 7/16-20 | 1/4 | 21.0 | 37.1 |
| 4FJX90M-4G | 7/16-20 | 1/4 | 32.0 | 37.1 |
| 4FJX90L-4G | 7/16-20 | 1/4 | 46.0 | 37.1 |
| 5FJX90M-4G | 1/2-20 | 1/4 | 32.0 | 31.2 |
| 6FJX90S-4G | 9/16-18 | 1/4 | 23.0 | 45.1 |
| 6FJX90M-4G | 9/16-18 | 1/4 | 38.0 | 38.9 |
| 6FJX90L-4G | 9/16-18 | 1/4 | 54.0 | 43.2 |
| 6FJX90S-6G | 9/16-18 | 3/8 | 23.0 | 50.7 |
| 6FJX90M-6G | 9/16-18 | 3/8 | 38.0 | 48.5 |
| 6FJX90L-6G | 9/16-18 | 3/8 | 54.0 | 42.7 |
| 6FJX90S-8G | 9/16-18 | 1/2 | 23.1 | 52.1 |
| 8FJX90S-6G | 3/4-16 | 3/8 | 29.0 | 52.8 |
| 8FJX90M-6G | 3/4-16 | 3/8 | 41.0 | 56.2 |
| 8FJX90L-6G | 3/4-16 | 3/8 | 64.0 | 56.6 |
| 8FJX90S-8G | 3/4-16 | 1/2 | 29.0 | 43.6 |
| 8FJX90M-8G | 3/4-16 | 1/2 | 41.0 | 32.9 |
| 8FJX90L-8G | 3/4-16 | 1/2 | 64.0 | 39.9 |
| 10FJX90M-6G | 7/8-14 | 3/8 | 47.0 | 54.6 |
| 10FJX90S-8G | 7/8-14 | 1/2 | 32.0 | 55.8 |
| 10FJX90M-8G | 7/8-14 | 1/2 | 47.0 | 55.8 |
| 10FJX90L-8G | 7/8-14 | 1/2 | 70.0 | 55.8 |
| 10FJX90-089-8G | 7/8-14 | 1/2 | 89.0 | 55.3 |
| 10FJX90-036-10G | 7/8-14 | 5/8 | 36.0 | 51.5 |
| 10FJX90M-10G | 7/8-14 | 5/8 | 47.0 | 55.9 |
| 10FJX90L-10G | 7/8-14 | 5/8 | 70.0 | 48.4 |
| 10FJX90M-12G | 7/8-14 | 3/4 | 47.0 | 63.1 |
| 12FJX90S-8G | 1 1/16-12 | 1/2 | 48.0 | 71.1 |
| 12FJX90S-10G | 1 1/16-12 | 5/8 | 48.0 | 69.8 |
| 12FJX90M-10G | 1 1/16-12 | 5/8 | 58.0 | 45.8 |
| 12FJX90L-10G | 1 1/16-12 | 5/8 | 96.0 | 78.2 |
| 12FJX90S-12G | 1 1/16-12 | 3/4 | 48.0 | 71.4 |
| 12FJX90M-12G | 1 1/16-12 | 3/4 | 58.0 | 71.4 |
| 12FJX90L-12G | 1 1/16-12 | 3/4 | 96.0 | 71.4 |
| 14FJX90-054-12G | 1 3/16-12 | 3/4 | 54.0 | 73.0 |
| 14FJX90-100-12G | 1 3/16-12 | 3/4 | 100.0 | 56.4 |
| 16FJX90S-12G | 1 5/16-12 | 3/4 | 56.0 | 81.7 |
| 16FJX90M-12G | 1 5/16-12 | 3/4 | 71.0 | 70.3 |
| 16FJX90S-16G | 1 5/16-12 | 1 | 56.0 | 88.8 |
| 16FJX90M-16G | 1 5/16-12 | 1 | 71.0 | 63.4 |
| 16FJX90L-16G | 1 5/16-12 | 1 | 114.0 | 63.5 |

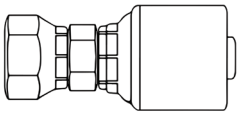
## G-FJX90 Cont... Female JIC 37° Flare Swivel - 90° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 20FJX90S-16G | 1 5/8-12 | 1 | 64.0 | 100.2 |
| 20FJX90M-20G | 1 5/8-12 | 1 1/4 | 78.0 | 100.1 |
| 20FJX90-089-20G | 1 5/8-12 | 1 1/4 | 89.0 | 98.8 |
| 20FJX90L-20G | 1 5/8-12 | 1 1/4 | 129.0 | 99.0 |

## JIS MegaCrimp Tails

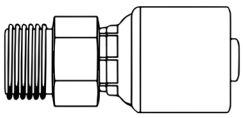
**G-FJISX** | **JIS (BSPP) 60° Cone Seat Female Swivel**



| Part # | BSPP F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FJISX-4G | 1/4 | 1/4 | 33.0 |
| 6FJISX-6G | 3/8 | 3/8 | 34.6 |
| 8FJISX-8G | 1/2 | 1/2 | 42.4 |
| 12FJISX-12G | 3/4 | 3/4 | 45.3 |

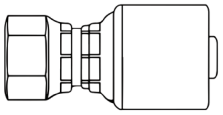
# Metric MegaCrimp Tails

## G-MDL — Male DIN 24° Cone Seat - Light Series



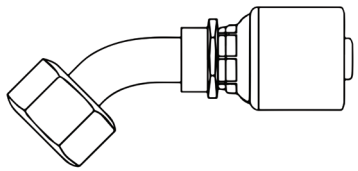
| Part # | MDL M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6MDL-4G | M12X1.5 | 1/4 | 19.8 |
| 8MDL-4G | M14X1.5 | 1/4 | 24.0 |
| 10MDL-4G | M16X1.5 | 1/4 | 25.0 |
| 10MDL-6G | M16X1.5 | 3/8 | 24.6 |
| 12MDL-6G | M18X1.5 | 3/8 | 24.6 |
| 12MDL-8G | M18X1.5 | 1/2 | 24.0 |
| 15MDL-6G | M22X1.5 | 3/8 | 23.9 |
| 15MDL-8G | M22X1.5 | 1/2 | 27.5 |
| 18MDL-8G | M26X1.5 | 1/2 | 28.0 |
| 18MDL-10G | M26X1.5 | 5/8 | 26.5 |
| 18MDL-12G | M26X1.5 | 3/4 | 27.0 |
| 22MDL-10G | M30X2.0 | 5/8 | 32.3 |
| 22MDL-12G | M30X2.0 | 3/4 | 29.0 |
| 28MDL-16G | M36X2.0 | 1 | 37.2 |
| 35MDL-20G | M45X2.0 | 1 1/4 | 40.5 |

## G-FDLORX — Female DIN 24° Cone Swivel - Light Series with O-Ring



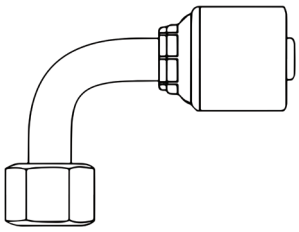
| Part # | MDL F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6FDLORX-4G | M12X1.5 | 1/4 | 28.8 |
| 8FDLORX-4G | M14X1.5 | 1/4 | 29.7 |
| 10FDLORX-4G | M16X1.5 | 1/4 | 29.3 |
| 10FDLORX-6G | M16X1.5 | 3/8 | 57.1 |
| 12FDLORX-4G | M18X1.5 | 1/4 | 29.7 |
| 12FDLORX-5G | M18X1.5 | 5/16 | 30.0 |
| 12FDLORX-6G | M18X1.5 | 3/8 | 27.7 |
| 12FDLORX-8G | M18X1.5 | 1/2 | 32.7 |
| 14FDLORX-6G | M20X1.5 | 3/8 | 30.1 |
| 15FDLORX-6G | M22X1.5 | 3/8 | 26.1 |
| 15FDLORX-8G | M22X1.5 | 1/2 | 29.5 |
| 18FDLORX-8G | M26X1.5 | 1/2 | 27.5 |
| 18FDLORX-10G | M26X1.5 | 5/8 | 29.5 |
| 18FDLORX-12G | M26X1.5 | 3/4 | 30.5 |
| 22FDLORX-12G | M30X2.0 | 3/4 | 32.5 |
| 28FDLORX-16G | M36X2.0 | 1 | 36.7 |
| 35FDLORX-20G | M45X2.0 | 1 1/4 | 44.1 |
| 42FDLORX-20G | M52X2.0 | 1 1/4 | 49.0 |

## G-FDLORX45 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 45° Bent Tube



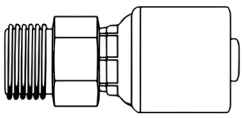
| Part # | MDL F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FDLORX45-4G | M12X1.5 | 1/4 | 16.9 | 39.7 |
| 8FDLORX45-4G | M14X1.5 | 1/4 | 16.2 | 36.5 |
| 10FDLORX45-4G | M16X1.5 | 1/4 | 17.9 | 38.3 |
| 10FDLORX45-6G | M16X1.5 | 3/8 | 18.6 | 40.5 |
| 12FDLORX45-4G | M18X1.5 | 1/4 | 18.3 | 41.2 |
| 12FDLORX45-6G | M18X1.5 | 3/8 | 18.9 | 40.9 |
| 15FDLORX45-6G | M22X1.5 | 3/8 | 22.5 | 44.4 |
| 15FDLORX45-8G | M22X1.5 | 1/2 | 20.2 | 47.0 |
| 18FDLORX45-8G | M26X1.5 | 1/2 | 26.9 | 57.2 |
| 18FDLORX45-10G | M26X1.5 | 5/8 | 24.8 | 56.2 |
| 22FDLORX45-12G | M30X2.0 | 3/4 | 29.8 | 66.1 |
| 28FDLORX45-16G | M36X2.0 | 1 | 30.9 | 78.8 |
| 35FDLORX45-20G | M45X2.0 | 1 1/4 | 37.5 | 93.4 |

## G-FDLORX90 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 90° Bent Tube



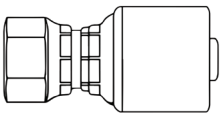
| Part # | MDL F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FDLORX90-4G | M12X1.5 | 1/4 | 35 | 31.5 |
| 8FDLORX90-4G | M14X1.5 | 1/4 | 35 | 34.0 |
| 10FDLORX90-4G | M16X1.5 | 1/4 | 36.5 | 31.5 |
| 10FDLORX90-6G | M16X1.5 | 3/8 | 36.5 | 32.3 |
| 12FDLORX90-4G | M18X1.5 | 1/4 | 37 | 34.0 |
| 12FDLORX90-6G | M18X1.5 | 3/8 | 37 | 32.2 |
| 15FDLORX90-6G | M22X1.5 | 3/8 | 42 | 32.2 |
| 15FDLORX90-8G | M22X1.5 | 1/2 | 42 | 40.3 |
| 18FDLORX90-8G | M26X1.5 | 1/2 | 51.6 | 43.9 |
| 18FDLORX90-10G | M26X1.5 | 5/8 | 51.5 | 47.8 |
| 18FDLORX90-12G | M26X1.5 | 3/4 | 51.5 | 49.3 |
| 22FDLORX90-12G | M30X2.0 | 3/4 | 62 | 56.3 |
| 28FDLORX90-16G | M36X2.0 | 1 | 70 | 74.3 |
| 35FDLORX90-20G | M45X2.0 | 1 1/4 | 80 | 82.8 |

## G-MDH — Male DIN 24° Cone Seat - Heavy Series



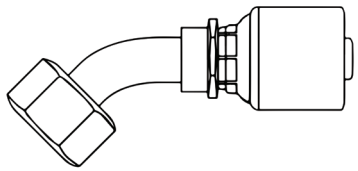
| Part # | MDH M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8MDH-4G | M16X1.5 | 1/4 | 27.0 |
| 10MDH-4G | M18X1.5 | 1/4 | 26.5 |
| 10MDH-6G | M18X1.5 | 3/8 | 27.1 |
| 12MDH-6G | M20X1.5 | 3/8 | 29.6 |
| 12MDH-8G | M20X1.5 | 1/2 | 29.0 |
| 14MDH-6G | M22X1.5 | 3/8 | 31.6 |
| 16MDH-8G | M24X1.5 | 1/2 | 31.5 |
| 20MDH-10G | M30X2.0 | 5/8 | 35.5 |
| 20MDH-12G | M30X2.0 | 3/4 | 36.0 |
| 25MDH-12G | M36X2.0 | 3/4 | 40.0 |
| 25MDH-16G | M36X2.0 | 1 | 40.4 |
| 30MDH-16G | M42X2.0 | 1 | 42.4 |
| 38MDH-20G | M52X2.0 | 1 1/4 | 49.1 |

## G-FDHORX — Female DIN 24° Cone Swivel - Heavy Series with O-Ring



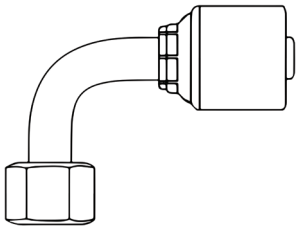
| Part # | MDH F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6FDHORX-4G | M14x1.5 | 1/4 | 24.5 |
| 8FDHORX-4G | M16X1.5 | 1/4 | 28.4 |
| 10FDHORX-4G | M18X1.5 | 1/4 | 29.3 |
| 10FDHORX-6G | M18X1.5 | 3/8 | 27.1 |
| 12FDHORX-4G | M20X1.5 | 1/4 | 29.7 |
| 12FDHORX-6G | M20X1.5 | 3/8 | 27.6 |
| 12FDHORX-8G | M20X1.5 | 1/2 | 32.7 |
| 14FDHORX-6G | M22X1.5 | 3/8 | 30.1 |
| 14FDHORX-8G | M22X1.5 | 1/2 | 30.5 |
| 16FDHORX-8G | M24X1.5 | 1/2 | 33.5 |
| 16FDHORX-10G | M24X1.5 | 5/8 | 33.5 |
| 20FDHORX-8G | M30X2.0 | 1/2 | 38.1 |
| 20FDHORX-10G | M30X2.0 | 5/8 | 35.5 |
| 20FDHORX-12G | M30X2.0 | 3/4 | 38.5 |
| 25FDHORX-12G | M36X2.0 | 3/4 | 39.0 |
| 25FDHORX-16G | M36X2.0 | 1 | 45.7 |
| 30FDHORX-16G | M42X2.0 | 1 | 49.2 |
| 38FDHORX-20G | M52X2.0 | 1 1/4 | 57.8 |

## G-FDHORX45 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 45° Bent Tube



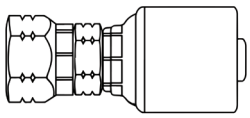
| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FDHORX45-4G | M16X1.5 | 1/4 | 16.2 | 36.5 |
| 10FDHORX45-4G | M18X1.5 | 1/4 | 17.9 | 38.3 |
| 10FDHORX45-6G | M18X1.5 | 3/8 | 18.6 | 40.5 |
| 12FDHORX45-4G | M20X1.5 | 1/4 | 18.3 | 41.2 |
| 12FDHORX45-6G | M20X1.5 | 3/8 | 18.9 | 40.9 |
| 14FDHORX45-6G | M22X1.5 | 3/8 | 21 | 43.0 |
| 14FDHORX45-8G | M22X1.5 | 1/2 | 27.1 | 53.9 |
| 16FDHORX45-8G | M24X1.5 | 1/2 | 21.6 | 48.4 |
| 20FDHORX45-10G | M30X2.0 | 5/8 | 24.9 | 55.8 |
| 25FDHORX45-12G | M36X2.0 | 3/4 | 31.2 | 67.6 |

## G-FDHORX90 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 90° Bent Tube



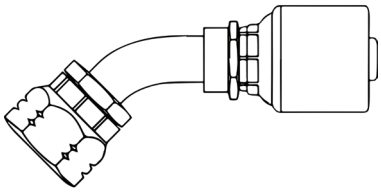
| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FDHORX-4G | M14X1.5 | 1/4 | 35.0 | 34.0 |
| 8FDHORX90-4G | M16X1.5 | 1/4 | 35.0 | 34.0 |
| 10FDHORX90-4G | M18X1.5 | 1/4 | 36.5 | 31.5 |
| 10FDHORX90-6G | M18X1.5 | 3/8 | 36.5 | 32.2 |
| 12FDHORX90-6G | M20X1.5 | 3/8 | 37 | 32.2 |
| 14FDHORX90-6G | M22X1.5 | 3/8 | 40 | 32.4 |
| 14FDHORX90-8G | M22X1.5 | 1/2 | 51 | 41.6 |
| 16FDHORX90-8G | M24X1.5 | 1/2 | 44 | 40.3 |
| 20FDHORX90-10G | M30X2.0 | 5/8 | 51 | 64.8 |
| 20FDHORX90-12G | M30X2.0 | 3/4 | 51 | 49.3 |
| 25FDHORX90-10G | M36X2.0 | 5/8 | 64 | 46.8 |
| 25FDHORX90-12G | M36X2.0 | 3/4 | 64 | 56.3 |
| 25FDHORX90-16G | M36X2.0 | 1 | 76 | 81.0 |
| 30FDHORX90-16G | M42X2.0 | 1 | 76 | 74.3 |
| 38FDHORX90-20G | M52X2.0 | 1 1/4 | 87.1 | 92.5 |

## G-FKX — Female Komatsu Style Japanese Metric Swivel



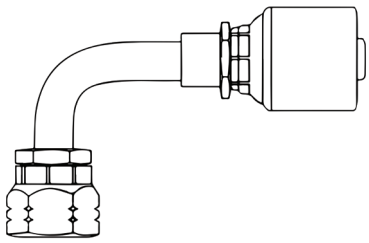
| Part # | JIS (Komatsu) F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FKX-4G | M14X1.5 | 1/4 | 33.7 |
| 6FKX-4G | M18X1.5 | 1/4 | 36.0 |
| 6FKX-6G | M18X1.5 | 3/8 | 36.1 |
| 8FKX-8G | M22X1.5 | 1/2 | 40.6 |
| 10FKX-10G | M24X1.5 | 5/8 | 44.0 |
| 12FKX-12G | M30X1.5 | 3/4 | 49.3 |
| 16FKX-16G | M33X1.5 | 1 | 59.2 |
| 20FKX-20G | M36X1.5 | 1 1/4 | 62.0 |

## G-FKX45 — Female Komatsu Style Japanese Metric Swivel - 45° Bent Tube



| Part # | JIS (Komatsu) F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FKX45-4G | M14X1.5 | 1/4 | 19.1 | 48.3 |
| 6FKX45-6G | M18X1.5 | 3/8 | 28.0 | 64.4 |
| 8FKX45-8G | M22X1.5 | 1/2 | 18.0 | 60.3 |
| 10FKX45-10G | M24X1.5 | 5/8 | 28.0 | 81.8 |
| 12FKX45-12G | M30X1.5 | 3/4 | 30.0 | 92.2 |

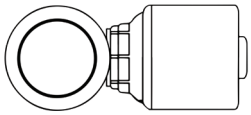
## G-FKX90 — Female Komatsu Style Japanese Metric Swivel - 90° Bent Tube



| Part # | JIS (Komatsu) F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FKX90-4G | M14X1.5 | 1/4 | 38.0 | 36.7 |
| 6FKX90-6G^ | M18X1.5 | 3/8 | 28.0 | 41.2 |
| 8FKX90-8G | M22X1.5 | 1/2 | 35.0 | 54.7 |
| 10FKX90-10G | M24X1.5 | 5/8 | 65.3 | 49.5 |
| 12FKX90M-12G | M30X1.5 | 3/4 | 63.0 | 84.5 |

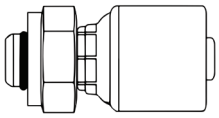
^ Discontinued Item - Only available while stock lasts.

## G-DBJ International Thread Metric 7642 DIN Banjo



| Part # | Banjo | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 10DBJ-4G | 10mm | 1/4 | 26.3 |
| 12DBJ-4G | 12mm | 1/4 | 28.3 |
| 12DBJ-6G | 12mm | 3/8 | 28.1 |
| 14DBJ-6G | 14mm | 3/8 | 30.4 |
| 16DBJ-6G | 16mm | 3/8 | 32.4 |
| 18DBJ-6G | 18mm | 3/8 | 34.4 |
| 18DBJ-8G | 18mm | 1/2 | 34.7 |
| 22DBJ-10G | 22mm | 5/8 | 38.6 |
| 26DBJ-12G | 26mm | 3/4 | 43.7 |
| 30DBJ-16G | 30mm | 1 | 52.4 |

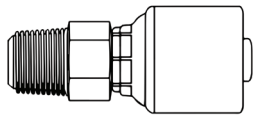
## G-PWX Pressure Wash Swivel



| Part # | Metric F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6PWX-4G | M22X1.5 | 1/4 | 38.0 |
| 6PWX-6G | M22X1.5 | 3/8 | 38.1 |

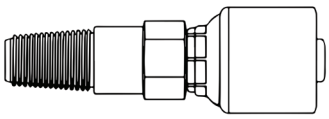
# NPT MegaCrimp Tails

## G-MP — Male Pipe (NPTF - 30° Cone Seat)



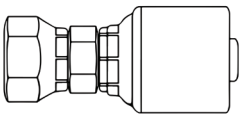
| Part # | NPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 2MP-4G | 1/8-27 | 1/4 | 23.9 |
| 4MP-4G | 1/4-18 | 1/4 | 29.0 |
| 4MP-6G | 1/4-18 | 3/8 | 31.0 |
| 4MP-8G | 1/4-18 | 1/2 | 31.5 |
| 6MP-4G | 3/8-18 | 1/4 | 29.0 |
| 6MP-6G | 3/8-18 | 3/8 | 31.0 |
| 6MP-8G | 3/8-18 | 1/2 | 31.5 |
| 8MP-4G | 1/2-14 | 1/4 | 35.8 |
| 8MP-6G | 1/2-14 | 3/8 | 36.1 |
| 8MP-8G | 1/2-14 | 1/2 | 35.5 |
| 8MP-10G | 1/2-14 | 5/8 | 37.5 |
| 8MP-12G | 1/2-14 | 3/4 | 36.8 |
| 12MP-8G | 3/4-14 | 1/2 | 37.3 |
| 12MP-10G | 3/4-14 | 5/8 | 37.5 |
| 12MP-12G | 3/4-14 | 3/4 | 36.8 |
| 12MP-16G | 3/4-14 | 1 | 43.2 |
| 16MP-12G | 1-11 1/2 | 3/4 | 45.0 |
| 16MP-16G | 1-11 1/2 | 1 | 47.5 |
| 20MP-20G | 1 1/4-11 1/2 | 1 1/4 | 53.8 |

## G-MPLN — Male Pipe Long Nose



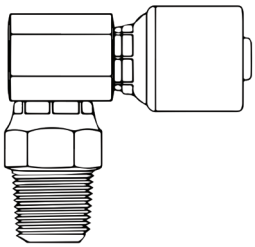
| Part # | NPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MPLN-4G | 1/4-18 | 1/4 | 39.0 |
| 4MPLN-6G | 1/4-18 | 3/8 | 41.1 |
| 6MPLN-4G | 3/8-18 | 1/4 | 39.0 |
| 6MPLN-6G | 3/8-18 | 3/8 | 41.1 |

## G-FPX — Female Pipe Swivel (NPSM - 30° Cone Seat)



| Part # | NPT F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FPX-4G | 1/4-18 | 1/4 | 30.7 |
| 6FPX-6G | 3/8-18 | 3/8 | 35.1 |
| 8FPX-6G | 1/2-14 | 3/8 | 36.8 |
| 8FPX-8G | 1/2-14 | 1/2 | 35.8 |
| 12FPX-12G | 3/4-14 | 3/4 | 43.2 |
| 16FPX-16G | 1-11 1/2 | 1 | 47.5 |
| 20FPX-20G | 1 1/4-11 1/2 | 1 1/4 | 57.4 |

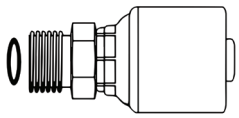
## G-MPX90 — Male Pipe Swivel - 90° Block (NPTF - without 30° Cone Seat)



| Part # | NPT M/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4MPX90-4G | 1/4-18 | 1/4 | 41.1 | 18.3 |
| 4MPX90-6G | 1/4-18 | 3/8 | 41.9 | 21.6 |

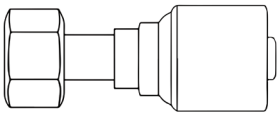
# ORFS MegaCrimp Tails

## G-MFFOR — Male Flat-Face O-Ring



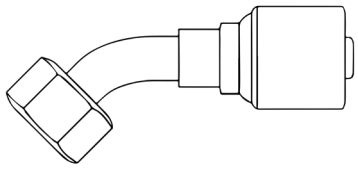
| Part # | ORFS M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MFFOR-4G | 9/16-18 | 1/4 | 26.5 |
| 6MFFOR-4G | 11/16-16 | 1/4 | 28.0 |
| 6MFFOR-6G | 11/16-16 | 3/8 | 28.1 |
| 8MFFOR-6G | 13/16-16 | 3/8 | 31.1 |
| 8MFFOR-8G | 13/16-16 | 1/2 | 30.7 |
| 10MFFOR-6G | 1-14 | 3/8 | 36.1 |
| 10MFFOR-8G | 1-14 | 1/2 | 35.5 |
| 10MFFOR-10G | 1-14 | 5/8 | 35.5 |
| 12MFFOR-8G | 1 3/16-12 | 1/2 | 39.0 |
| 12MFFOR-10G | 1 3/16-12 | 5/8 | 39.5 |
| 12MFFOR-12G | 1 3/16-12 | 3/4 | 39.0 |
| 16MFFOR-12G | 1 7/16-12 | 3/4 | 44.0 |
| 16MFFOR-16G | 1 7/16-12 | 1 | 45.2 |
| 20MFFOR-16G | 1 11/16-12 | 1 | 48.2 |
| 20MFFOR-20G | 1 11/16-12 | 1 1/4 | 50.0 |

## G-FFORX — Female Flat-Face O-Ring Swivel



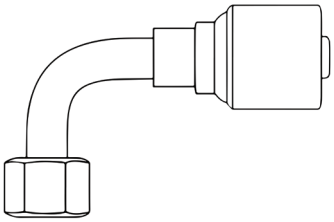
| Part # | ORFS F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FFORX-4G | 9/16-18 | 1/4 | 26.7 |
| 4FFORX-6G | 9/16-18 | 3/8 | 50.3 |
| 6FFORX-4G | 11/16-16 | 1/4 | 25.1 |
| 6FFORX-6G | 11/16-16 | 3/8 | 28.9 |
| 6FFORX-8G | 11/16-16 | 1/2 | 58.4 |
| 8FFORX-4G | 13/16-16 | 1/4 | 24.5 |
| 8FFORX-6G | 13/16-16 | 3/8 | 28.6 |
| 8FFORX-8G | 13/16-16 | 1/2 | 31.3 |
| 8FFORX-10G | 13/16-16 | 5/8 | 59.7 |
| 10FFORX-6G | 1-14 | 3/8 | 25.9 |
| 10FFORX-8G | 1-14 | 1/2 | 34.8 |
| 10FFORX-10G | 1-14 | 5/8 | 38.5 |
| 10FFORX-12G | 1-14 | 3/4 | 44.1 |
| 12FFORX-8G | 1 3/16-12 | 1/2 | 36.3 |
| 12FFORX-10G | 1 3/16-12 | 5/8 | 39.5 |
| 12FFORX-12G | 1 3/16-12 | 3/4 | 41.8 |
| 12FFORX-16G | 1 3/16-12 | 1 | 85.0 |
| 16FFORX-12G | 1 7/16-12 | 3/4 | 37.3 |
| 16FFORX-16G | 1 7/16-12 | 1 | 47.2 |
| 20FFORX-16G | 1 11/16-12 | 1 | 46.2 |
| 20FFORX-20G | 1 11/16-12 | 1 1/4 | 50.0 |
| 24FFORX-20G | 2-12 | 1 1/4 | 45.0 |

## G-FFORX45 — Female Flat-Face O-Ring Swivel - 45° Bent Tube



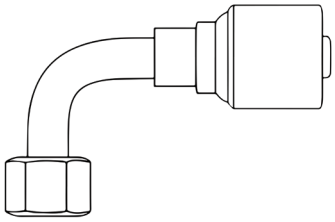
| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FFORX45S-4G | 9/16-18 | 1/4 | 10.0 | 39.2 |
| 4FFORX45S-6G | 9/16-18 | 3/8 | 10.0 | 38.1 |
| 6FFORX45S-4G | 11/16-16 | 1/4 | 11.0 | 42.5 |
| 6FFORX45S-6G | 11/16-16 | 3/8 | 11.0 | 41.9 |
| 6FFORX45S-8G | 11/16-16 | 1/2 | 11.0 | 53.2 |
| 8FFORX45S-6G | 13/16-16 | 3/8 | 15.0 | 57.3 |
| 8FFORX45S-8G | 13/16-16 | 1/2 | 15.0 | 51.6 |
| 10FFORX45S-8G | 1-14 | 1/2 | 16.0 | 63.5 |
| 10FFORX45S-10G | 1-14 | 5/8 | 16.0 | 63.0 |
| 10FFORX45S-12G | 1-14 | 3/4 | 16.0 | 62.0 |
| 12FFORX45S-8G | 1 3/16-12 | 1/2 | 21.0 | 72.8 |
| 12FFORX45S-10G | 1 3/16-12 | 5/8 | 21.0 | 68.4 |
| 12FFORX45S-12G | 1 3/16-12 | 3/4 | 21.0 | 67.4 |
| 12FFORX45S-16G | 1 3/16-12 | 1 | 21.0 | 75.7 |
| 16FFORX45S-12G | 1 7/16-12 | 3/4 | 24.0 | 71.0 |
| 16FFORX45S-16G | 1 7/16-12 | 1 | 24.0 | 90.1 |
| 20FFORX45S-20G | 1 11/16-12 | 1 1/4 | 25.0 | 99.0 |

## G-FFORX90 — Female Flat-Face O-Ring Swivel - 90° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FFORX90S-4G | 9/16-18 | 1/4 | 21.0 | 34.2 |
| 4FFORX90M-4G | 9/16-18 | 1/4 | 32.0 | 30.2 |
| 4FFORX90L-4G | 9/16-18 | 1/4 | 46.0 | 30.2 |
| 4FFORX90S-6G | 9/16-18 | 3/8 | 21.0 | 33.6 |
| 6FFORX90S-4G | 11/16-16 | 1/4 | 23.0 | 37.4 |
| 6FFORX90M-4G | 11/16-16 | 1/4 | 38.0 | 37.4 |
| 6FFORX90L-4G | 11/16-16 | 1/4 | 54.0 | 35.6 |
| 6FFORX90S-6G | 11/16-16 | 3/8 | 23.0 | 44.6 |
| 6FFORX90M-6G | 11/16-16 | 3/8 | 38.0 | 35.7 |
| 6FFORX90L-6G | 11/16-16 | 3/8 | 54.0 | 41.4 |
| 6FFORX90S-8G | 11/16-16 | 1/2 | 23.0 | 46.0 |
| 6FFORX90L-8G | 11/16-16 | 1/2 | 54.0 | 42.8 |
| 8FFORX90S-6G | 13/16-16 | 3/8 | 29.0 | 45.1 |
| 8FFORX90M-6G | 13/16-16 | 3/8 | 41.0 | 40.6 |
| 8FFORX90L-6G | 13/16-16 | 3/8 | 64.0 | 41.1 |
| 8FFORX90S-8G | 13/16-16 | 1/2 | 29.0 | 46.5 |
| 8FFORX90M-8G | 13/16-16 | 1/2 | 41.0 | 46.5 |
| 8FFORX90L-8G | 13/16-16 | 1/2 | 64.0 | 46.5 |

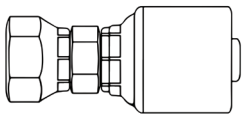
## G-FFORX90 Cont — Female Flat-Face O-Ring Swivel - 90° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FFORX90S-10G | 13/16-16 | 5/8 | 29.0 | 54.9 |
| 8FFORX90L-10G | 13/16-16 | 5/8 | 64.0 | 54.9 |
| 10FFORX90S-8G | 1-14 | 1/2 | 32.0 | 55.4 |
| 10FFORX90M-8G | 1-14 | 1/2 | 47.0 | 55.7 |
| 10FFORX90L-8G | 1-14 | 1/2 | 70.0 | 53.1 |
| 10FFORX90S-10G | 1-14 | 5/8 | 32.0 | 55.0 |
| 10FFORX90M-10G | 1-14 | 5/8 | 47.0 | 55.3 |
| 10FFORX90L-10G | 1-14 | 5/8 | 70.0 | 52.7 |
| 10FFORX90S-12G | 1-14 | 3/4 | 32.0 | 53.0 |
| 12FFORX90S-8G | 1 3/16-12 | 1/2 | 48.0 | 65.4 |
| 12FFORX90S-10G | 1 3/16-12 | 5/8 | 48.0 | 58.8 |
| 12FFORX90S-12G | 1 3/16-12 | 3/4 | 48.0 | 57.8 |
| 12FFORX90M-12G | 1 3/16-12 | 3/4 | 58.0 | 58.0 |
| 12FFORX90L-12G | 1 3/16-12 | 3/4 | 96.0 | 67.2 |
| 12FFORX90S-16G | 1 3/16-12 | 1 | 48.0 | 72.6 |
| 16FFORX90S-12G | 1 7/16-12 | 3/4 | 56.0 | 77.5 |
| 16FFORX90S-16G | 1 7/16-12 | 1 | 56.0 | 73.1 |
| 16FFORX90M-16G | 1 7/16-12 | 1 | 71.0 | 73.1 |
| 16FFORX90L-16G | 1 7/16-12 | 1 | 114.0 | 73.1 |
| 20FFORX90S-16G | 1 11/16-12 | 1 | 64.0 | 73.1 |
| 20FFORX90M-16G | 1 11/16-12 | 1 | 78.0 | 99.2 |
| 20FFORX90S-20G | 1 11/16-12 | 1 1/4 | 64.0 | 91.0 |
| 20FFORX90M-20G | 1 11/16-12 | 1 1/4 | 78.0 | 81.0 |
| 20FFORX90L-20G | 1 11/16-12 | 1 1/4 | 129.0 | 81.0 |

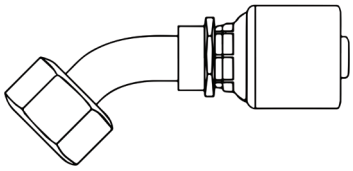
## SAE MegaCrimp Tails

### G-FSX — Female SAE 45° Flare Swivel



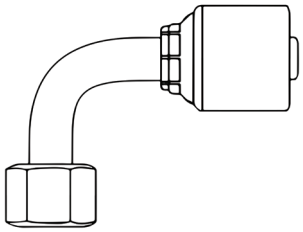
| Part # | SAE F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4FSX-4G | 7/16-20 | 1/4 | 31.0 |
| 5FSX-4G | 1/2-20 | 1/4 | 30.2 |
| 6FSX-4G | 5/8-18 | 1/4 | 32.6 |
| 6FSX-6G | 5/8-18 | 3/8 | 34.2 |
| 8FSX-6G | 3/4-16 | 3/8 | 35.1 |
| 8FSX-8G | 3/4-16 | 1/2 | 34.1 |
| 10FSX-8G | 7/8-14 | 1/2 | 38.4 |
| 12FSX-12G | 1 1/16-14 | 3/4 | 42.5 |

### G-FSX45 — Female SAE 45° Flare Swivel - 45° Bent Tube



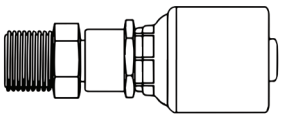
| Part # | SAE F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FSX45-4G | 7/16-20 | 1/4 | 8.4 | 33.5 |
| 5FSX45-009-4G | 1/2-20 | 1/4 | 9.1 | 40.9 |
| 6FSX45-6G | 5/8-18 | 3/8 | 10.0 | 41.6 |
| 8FSX45-014-6G | 3/4-16 | 3/8 | 14.0 | 59.9 |
| 8FSX45-8G | 3/4-16 | 1/2 | 14.0 | 46.5 |
| 10FSX45-016-8G | 7/8-14 | 1/2 | 16.0 | 55.6 |
| 12FSX45-12G | 1 1/16-14 | 3/4 | 19.8 | 60.0 |

### G-FSX90 — Female SAE 45° Flare Swivel - 90° Bent Tube



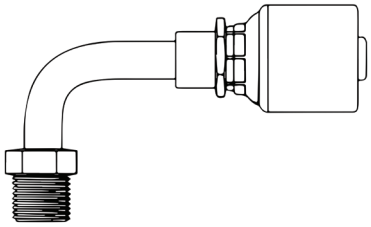
| Part # | SAE F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 4FSX90-4G | 7/16-20 | 1/4 | 31.5 | 26.0 |
| 5FSX90-046-4G | 1/2-20 | 1/4 | 45.7 | 36.8 |
| 6FSX90-6G | 5/8-18 | 3/8 | 38.5 | 32.1 |
| 6FSX90-055-6G | 5/8-18 | 3/8 | 55.4 | 43.9 |
| 8FSX90-6G | 3/4-16 | 3/8 | 44.5 | 35.6 |
| 8FSX90-8G | 3/4-16 | 1/2 | 44.5 | 37.0 |
| 10FSX90-031-8G | 7/8-14 | 1/2 | 31.2 | 46.0 |
| 12FSX90-12G | 1 1/16-14 | 3/4 | 70.6 | 49.0 |

## G-MIX — Male SAE Inverted Flare Swivel



| Part # | SAE M/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MIX-4G | 7/16-24 | 1/4 | 37.9 |
| 8MIX-8G | 3/4-18 | 1/2 | 46.3 |

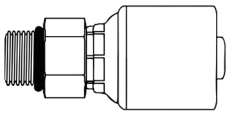
## G-MIX90 — Male SAE Inverted Flare Swivel - 90° Bent Tube



| Part # | SAE M/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8MIX90-8G | 3/4-18 | 1/2 | 41.7 | 46.0 |

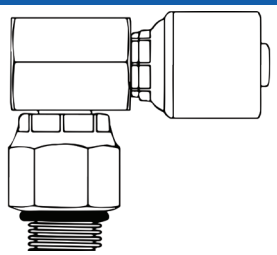
## UNO MegaCrimp Tails

### G-MB — Male O-Ring Boss



| Part # | UNO M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 4MB-4G | 7/16-20 | 1/4 | 24.5 |
| 6MB-4G | 9/16-18 | 1/4 | 26.0 |
| 6MB-6G | 9/16-18 | 3/8 | 28.1 |
| 8MB-6G | 3/4-16 | 3/8 | 30.1 |
| 8MB-8G | 3/4-16 | 1/2 | 29.5 |
| 8MB-10G | 3/4-16 | 5/8 | 34.5 |
| 10MB-6G | 7/8-14 | 3/8 | 28.6 |
| 10MB-8G | 7/8-14 | 1/2 | 30.5 |
| 10MB-10G | 7/8-14 | 5/8 | 34.5 |
| 10MB-12G | 7/8-14 | 3/4 | 31.1 |
| 12MB-6G | 1 1/16-12 | 3/8 | 33.6 |
| 12MB-8G | 1 1/16-12 | 1/2 | 36.5 |
| 12MB-10G | 1 1/16-12 | 5/8 | 38.5 |
| 12MB-12G | 1 1/16-12 | 3/4 | 33.5 |
| 14MB-12G | 1 3/16-12 | 3/4 | 33.0 |
| 14MB-16G | 1 3/16-12 | 1 | 39.2 |
| 16MB-12G | 1 5/16-12 | 3/4 | 36.5 |
| 16MB-16G | 1 5/16-12 | 1 | 40.7 |
| 20MB-16G | 1 5/8-12 | 1 | 38.2 |
| 20MB-20G | 1 5/8-12 | 1 1/4 | 40.0 |

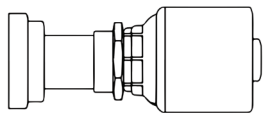
### G-MBX90BL — Male O-Ring Boss Swivel - 90° Block



| Part # | UNO M/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 10MBX90BL-8G | 7/8-14 | 1/2 | 46.0 | 27.2 |
| 12MBX90BL-8G | 1 1/16-12 | 1/2 | 53.1 | 27.2 |

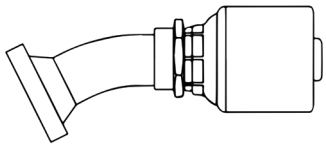
# Flanged MegaCrimp Tails

## G-FL — Code 61 O-Ring Flange



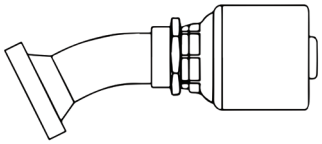
| Part # | Code 61 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8FL-8G | 1/2 | 1/2 | 42.5 |
| 12FL-8G | 3/4 | 1/2 | 42.5 |
| 12FL-12G | 3/4 | 3/4 | 47.0 |
| 12FL-16G | 3/4 | 1 | 71.2 |
| 16FL-12G | 1 | 3/4 | 37.8 |
| 16FL-16G | 1 | 1 | 48.2 |
| 20FL-16G | 1 1/4 | 1 | 48.2 |
| 20FL-20G | 1 1/4 | 1 1/4 | 53.5 |
| 24FL-16G | 1 1/2 | 1 | 39.2 |
| 24FL-20G | 1 1/2 | 1 1/4 | 58.5 |

## G-FL22 — Code 61 O-Ring Flange - 22 1/2° Bent Tube



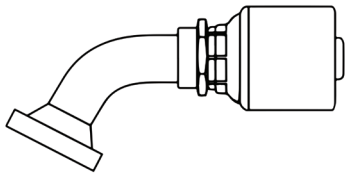
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL22M-12G | 3/4 | 3/4 | 11.0 | 70.0 |
| 16FL22M-014-12G | 1 | 3/4 | 14.0 | 70.0 |
| 16FL22M-16G | 1 | 1 | 14.0 | 85.7 |
| 20FL22M-20G | 1 1/4 | 1 1/4 | 15.0 | 93.5 |

## G-FL30 — Code 61 O-Ring Flange - 30° Bent Tube



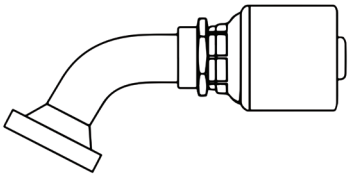
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL30M-12G | 3/4 | 3/4 | 16.0 | 68.5 |
| 16FL30M-12G | 1 | 3/4 | 19.1 | 73.0 |
| 16FL30M-16G | 1 | 1 | 19.1 | 87.7 |
| 20FL30M-16G | 1 1/4 | 1 | 22.1 | 92.7 |
| 20FL30S-20G | 1 1/4 | 1 1/4 | 20.1 | 94.4 |

## G-FL45 Code 61 O-Ring Flange - 45° Bent Tube



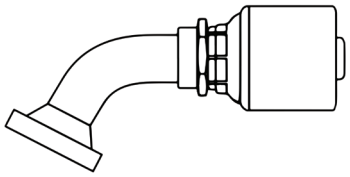
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL45M-8G | 1/2 | 1/2 | 19.1 | 60.3 |
| 12FL45M-8G | 3/4 | 1/2 | 26.0 | 67.3 |
| 12FL45M-10G | 3/4 | 5/8 | 26.0 | 75.1 |
| 12FL45M-12G | 3/4 | 3/4 | 26.0 | 71.5 |
| 16FL45S-12G | 1 | 3/4 | 28.0 | 73.5 |
| 16FL45S-16G | 1 | 1 | 28.0 | 85.7 |
| 20FL45S-16G | 1 1/4 | 1 | 32.0 | 92.2 |
| 20FL45S-20G | 1 1/4 | 1 1/4 | 32.0 | 98.0 |
| 24FL45-16G | 1 1/2 | 1 | 26.9 | 77.7 |

## G-FL60 Code 61 O-Ring Flange - 60° Bent Tube



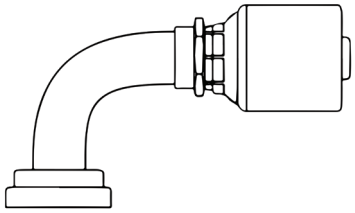
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL60M-12G | 3/4 | 3/4 | 37.0 | 77.0 |
| 16FL60M-12G | 1 | 3/4 | 44.0 | 81.0 |
| 16FL60M-16G | 1 | 1 | 44.0 | 91.7 |
| 20FL60S-20G | 1 1/4 | 1 1/4 | 45.0 | 99.0 |

## G-FL67 Code 61 O-Ring Flange - 67 1/2° Bent Tube



| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL67M-12G | 3/4 | 3/4 | 42.0 | 67.0 |
| 20FL67S-20G | 1 1/4 | 1 1/4 | 51.0 | 91.4 |

## G-FL90 Code 61 O-Ring Flange - 90° Bent Tube



| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL90M-8G | 1/2 | 1/2 | 40.0 | 53.7 |
| 12FL90M-8G | 3/4 | 1/2 | 58.0 | 54.0 |
| 12FL90M-10G | 3/4 | 5/8 | 58.0 | 62.5 |
| 12FL90M-12G | 3/4 | 3/4 | 58.0 | 64.3 |
| 12FL90M-16G | 3/4 | 1 | 58.0 | 72.5 |
| 16FL90S-12G | 1 | 3/4 | 61.0 | 68.8 |
| 16FL90S-16G | 1 | 1 | 61.0 | 82.5 |
| 20FL90S-16G | 1 1/4 | 1 | 68.0 | 82.5 |
| 20FL90S-20G | 1 1/4 | 1 1/4 | 68.0 | 99.1 |
| 20FL90M-20G | 1 1/4 | 1 1/4 | 90.0 | 76.0 |
| 20FL90-102-20G | 1 1/4 | 1 1/4 | 101.6 | 79.0 |
| 24FL90S-081-16G | 1 1/2 | 1 | 81.0 | 84.8 |
| 24FL90S-20G | 1 1/2 | 1 1/4 | 81.0 | 99.1 |

# GlobalSpiral™ Couplings Offer Inventory Reduction with No-Skive Convenience

A no-skive coupling design from Gates provides superior performance for extreme high-pressure and high-impulse hydraulic applications. The following report highlights the features and benefits offered by Gates GlobalSpiral™ (GS) coupling.

The GlobalSpiral™ coupling can be used with Gates' six and four spiral wire hydraulic hoses.

**Superior performance**

More than five years of engineering and testing went into the GlobalSpiral™ coupling design. In performance testing required by Gates OEM customer standards, GS couplings surpassed one million impulse cycles at +121°C without causing stress cracks in the hose tubing. Both the stem and ferrule are machined from unleaded steel bar stock for maximum strength. This enables GS thread ends to handle working pressures up to 6,000 psi. This feature also eliminates premature failures caused by lead stringers in leaded steel bar stock.

The no-skive ferrule eliminates the need for skiving equipment, as well as odors and dust created while removing the protective outer cover from the hose. Ferrules that require skiving are subject to blow-offs when skived improperly. Blow-offs and weeping at the hose coupling interface also can result from failure to fully insert the hose on the stem during assembly.

With the two-piece design of the GS coupling, it is possible to pull the ferrule down and check for full insertion.

## Thread configurations

The GS coupling is available in more than 30 thread configurations including SAE, DIN, British Standard Pipe, Komatsu style and JIS.

In addition, GlobalSpiral™ flange stems feature a solid, no-braze construction to provide extra reliability. GlobalSpiral FJX and FFORX stems have a machined fit swivel nut that passes a full 4:1 burst safety factor.

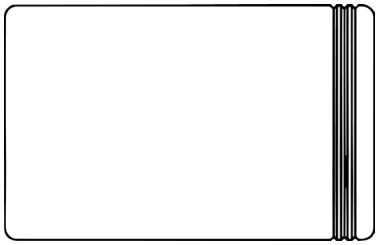
# Gates GlobalSpiral - GS Series

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Hose Extenders GlobalSpiral Two Piece Tails . . . . . B47
Flanged GlobalSpiral Two Piece Tails . . . . . B48

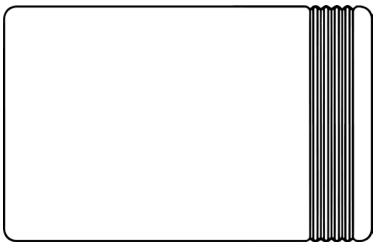
## GlobalSpiral Two Piece Tail Ferrules

### GS-1F-2 — GS Ferrule for Wire Braid Hose



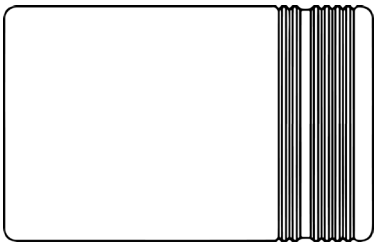
| Part # | Hose ID |
|---|---|
| 6GS1F-2 | 3/8 |
| 8GS1F-2 | 1/2 |
| 10GS1F-2 | 5/8 |
| 12GS1F-2 | 3/4 |
| 16GS1F-2 | 1 |
| 20GS1F-2 | 1 1/4 |

### GS-1F-4 — GS Ferrule for 4-Spiral Hose



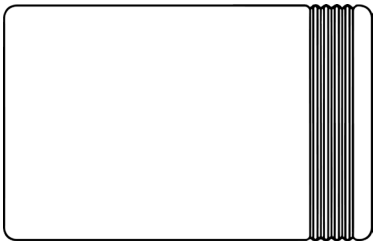
| Part # | Hose ID |
|---|---|
| 6GS1F-4 | 3/8 |
| 8GS1F-4 | 1/2 |
| 10GS1F-4 | 5/8 |
| 12GS1F-4 | 3/4 |
| 16GS1F-4 | 1 |
| 20GS1F-4 | 1 1/4 |

### GS-1F-6 — GS Ferrule for 6-Spiral Hose



| Part # | Hose ID |
|---|---|
| 20GS1F-6 | 1 1/4 |

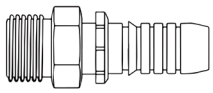
### GS-D1F-4 — GS Ferrule for ID5K Hose



| Part # | Hose ID |
|---|---|
| 10GSID1F-4 | 5/8 |

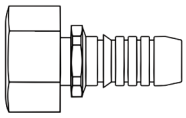
# BSP GlobalSpiral Two Piece Tails

## GS-MBSPP — Male British Standard Pipe Parallel (60° Cone Seat)



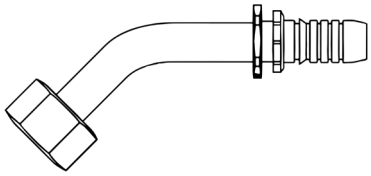
| Part # | BSPP M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6MBSPP-6GS | 3/8-19 | 3/8 | 27.2 |
| 8MBSPP-8GS | 1/2-14 | 1/2 | 46.0 |
| 10MBSPP-10GS | 5/8-14 | 5/8 | 30.0 |
| 12MBSPP-10GS | 3/4-14 | 5/8 | 34.8 |
| 12MBSPP-12GS | 3/4-14 | 3/4 | 34.8 |
| 16MBSPP-16GS | 1-11 | 1 | 41.2 |
| 20MBSPP-20GS | 1 1/4-11 | 1 1/4 | 47.0 |

## GS-FBSPORX — Female British Standard Parallel Pipe O-Ring Swivel



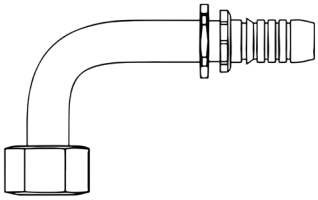
| Part # | BSPP F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6FBSPORX-6GS | 3/8-19 | 3/8 | 23.6 |
| 8FBSPORX-6GS | 1/2-14 | 3/8 | 23.6 |
| 8FBSPORX-8GS | 1/2-14 | 1/2 | 23.6 |
| 10FBSPORX-10GS | 5/8-14 | 5/8 | 30.0 |
| 12FBSPORX-10GS | 3/4-14 | 5/8 | 34.8 |
| 12FBSPORX-12GS | 3/4-14 | 3/4 | 35.6 |
| 16FBSPORX-12GS | 1-11 | 3/4 | 35.6 |
| 16FBSPORX-16GS | 1-11 | 1 | 38.6 |
| 20FBSPORX-16GS | 1 1/4-11 | 1 | 26.2 |
| 20FBSPORX-20GS | 1 1/4-11 | 1 1/4 | 45.5 |

## GS-FBSPORX45 — Female British Standard Parallel Pipe O-Ring Swivel - 45° Bent Tube



| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FBSPORX45-6GS | 3/8-19 | 3/8 | 15.5 | 47.2 |
| 8FBSPORX45-8GS | 1/2-14 | 1/2 | 17.0 | 54.1 |
| 10FBSPORX45-10GS | 5/8-14 | 5/8 | 26.4 | 57.2 |
| 12FBSPORX45-12GS | 3/4-14 | 3/4 | 28.3 | 81.6 |
| 16FBSPORX45-16GS | 1-11 | 1 | 31.0 | 99.1 |
| 20FBSPORX45M-20GS | 1 1/4-11 | 1 1/4 | 37.6 | 119.9 |

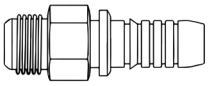
## GS-FBSPORX90 — Female British Standard Parallel Pipe O-Ring Swivel - 90° Bent Tube



| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FBSPORX90-6GS | 3/8-19 | 3/8 | 32.0 | 42.2 |
| 8FBSPORX90-8GS | 1/2-14 | 1/2 | 37.6 | 50.6 |
| 10FBSPORX90-10GS | 5/8-14 | 5/8 | 48.3 | 62.2 |
| 12FBSPORX90-12GS | 3/4-14 | 3/4 | 60.0 | 73.2 |
| 16FBSPORX90-16GS | 1-11 | 1 | 70.1 | 91.2 |
| 20FBSPORX90-20GS | 1 1/4-11 | 1 1/4 | 80.0 | 109.5 |

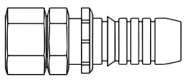
# JIC GlobalSpiral Two Piece Tails

## GS-MJ — Male JIC 37° Flare



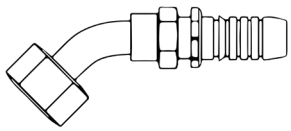
| Part # | JIC M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6MJ-6GS | 9/16-18 | 3/8 | 30.2 |
| 8MJ-6GS | 3/4-16 | 3/8 | 34.3 |
| 8MJ-8GS | 3/4-16 | 1/2 | 34.5 |
| 10MJ-6GS | 7/8-14 | 3/8 | 41.2 |
| 10MJ-8GS | 7/8-14 | 1/2 | 37.6 |
| 10MJ-10GS | 7/8-14 | 5/8 | 41.7 |
| 12MJ-10GS | 1 1/16-12 | 5/8 | 43.7 |
| 12MJ-12GS | 1 1/16-12 | 3/4 | 41.9 |
| 14MJ-12GS | 1 3/16-12 | 3/4 | 42.9 |
| 16MJ-12GS | 1 5/16-12 | 3/4 | 45.0 |
| 16MJ-16GS | 1 5/16-12 | 1 | 47.2 |
| 20MJ-16GS | 1 5/8-12 | 1 | 51.8 |
| 20MJ-20GS | 1 5/8-12 | 1 1/4 | 53.9 |

## GS-FJX — Female JIC 37° Flare Swivel



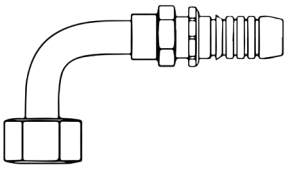
| Part # | JIC F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6FJX-6GS | 9/16-18 | 3/8 | 33.3 |
| 8FJX-6GS | 3/4-16 | 3/8 | 35.3 |
| 8FJX-8GS | 3/4-16 | 1/2 | 34.5 |
| 10FJX-8GS | 7/8-14 | 1/2 | 38.4 |
| 10FJX-10GS | 7/8-14 | 5/8 | 43.2 |
| 10FJX-12GS | 7/8-14 | 3/4 | 47.5 |
| 12FJX-8GS | 1 1/16-12 | 1/2 | 39.6 |
| 12FJX-10GS | 1 1/16-12 | 5/8 | 44.7 |
| 12FJX-12GS | 1 1/16-12 | 3/4 | 47.2 |
| 12FJX-16GS | 1 1/16-12 | 1 | 50.8 |
| 14FJX-12GS | 1 3/16-12 | 3/4 | 52.3 |
| 14FJX-16GS | 1 3/16-12 | 1 | 51.1 |
| 16FJX-12GS | 1 5/16-12 | 3/4 | 51.1 |
| 16FJX-16GS | 1 5/16-12 | 1 | 52.6 |
| 16FJX-20GS | 1 5/16-12 | 1 1/4 | 57.9 |
| 20FJX-16GS | 1 5/8-12 | 1 | 58.7 |
| 20FJX-20GS | 1 5/8-12 | 1 1/4 | 65.0 |
| 24FJX-20GS | 1 7/8-12 | 1 1/4 | 65.8 |

## GS-FJX45 — Female JIC 37° Flare Swivel - 45° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FJX45S-6GS | 9/16-18 | 3/8 | 11.0 | 46.2 |
| 8FJX45S-6GS | 3/4-16 | 3/8 | 15.0 | 57.2 |
| 8FJX45S-8GS | 3/4-16 | 1/2 | 15.0 | 56.4 |
| 10FJX45S-8GS | 7/8-14 | 1/2 | 16.0 | 53.6 |
| 10FJX45S-10GS | 7/8-14 | 5/8 | 18.0 | 63.0 |
| 12FJX45S-10GS | 1 1/16-12 | 5/8 | 21.1 | 71.6 |
| 12FJX45S-12GS | 1 1/16-12 | 3/4 | 21.1 | 79.0 |
| 16FJX45S-12GS | 1 5/16-12 | 3/4 | 23.9 | 86.1 |
| 16FJX45S-16GS | 1 5/16-12 | 1 | 23.9 | 95.8 |
| 16FJX45M-16GS | 1 5/16-12 | 1 | 38.1 | 103.4 |
| 20FJX45S-16GS | 1 5/8-12 | 1 | 24.9 | 107.4 |
| 20FJX45-038-20GS | 1 5/8-12 | 1 1/4 | 38.1 | 109.0 |

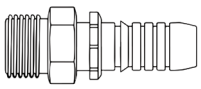
## GS-FJX90 Female JIC 37° Flare Swivel - 90° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FJX90S-6GS | 9/16-18 | 3/8 | 23.1 | 43.2 |
| 6FJX90L-6GS | 9/16-18 | 3/8 | 54.1 | 50.3 |
| 8FJX90M-6GS | 3/4-16 | 3/8 | 40.9 | 55.1 |
| 8FJX90-083-6GS | 3/4-16 | 3/8 | 83.1 | 55.1 |
| 8FJX90S-8GS | 3/4-16 | 1/2 | 29.0 | 48.5 |
| 8FJX90M-8GS | 3/4-16 | 1/2 | 40.9 | 54.6 |
| 8FJX90L-8GS | 3/4-16 | 1/2 | 64.0 | 54.6 |
| 8FJX90XL-8GS | 3/4-16 | 1/2 | 103.1 | 54.6 |
| 10FJX90S-8GS | 7/8-14 | 1/2 | 32.0 | 54.6 |
| 10FJX90M-8GS | 7/8-14 | 1/2 | 47.0 | 51.1 |
| 10FJX90L-8GS | 7/8-14 | 1/2 | 83.1 | 57.4 |
| 10FJX90-036-10GS | 7/8-14 | 5/8 | 36.1 | 61.0 |
| 10FJX90M-10GS | 7/8-14 | 5/8 | 47.0 | 56.6 |
| 12FJX90S-8GS | 1 1/16-12 | 1/2 | 48.0 | 73.4 |
| 12FJX90M-10GS | 1 1/16-12 | 5/8 | 57.9 | 70.6 |
| 12FJX90S-12GS | 1 1/16-12 | 3/4 | 48.0 | 68.1 |
| 12FJX90M-12GS | 1 1/16-12 | 3/4 | 57.9 | 62.0 |
| 12FJX90L-12GS | 1 1/16-12 | 3/4 | 96.0 | 62.0 |
| 14FJX90-060-12GS | 1 3/16-12 | 3/4 | 59.9 | 89.9 |
| 16FJX90S-12GS | 1 5/16-12 | 3/4 | 55.9 | 84.1 |
| 16FJX90M-12GS | 1 5/16-12 | 3/4 | 71.1 | 84.1 |
| 16FJX90L-12GS | 1 5/16-12 | 3/4 | 114.1 | 84.1 |
| 16FJX90S-16GS | 1 5/16-12 | 1 | 55.9 | 87.6 |
| 16FJX90M-16GS | 1 5/16-12 | 1 | 71.1 | 87.6 |
| 16FJX90L-16GS | 1 5/16-12 | 1 | 110.0 | 87.6 |
| 20FJX90L-16GS | 1 5/8-12 | 1 | 129.0 | 97.5 |
| 20FJX90S-20GS | 1 5/8-12 | 1 1/4 | 64.0 | 102.9 |
| 20FJX90M-20GS | 1 5/8-12 | 1 1/4 | 78.0 | 102.9 |
| 20FJX90L-20GS | 1 5/8-12 | 1 1/4 | 129.0 | 102.9 |
| 24FJX90M-20GS | 1 7/8-12 | 1 1/4 | 86.1 | 114.8 |

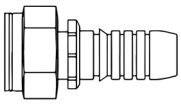
## Metric GlobalSpiral Two Piece Tails

### GS-MDL — Male DIN 24° Cone Seat - Light Series



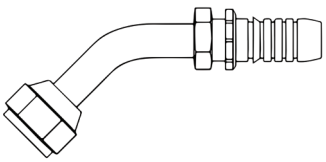
| Part # | MDL M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 12MDL-6GS | M18X1.5 | 3/8 | 27.9 |
| 15MDL-8GS | M22X1.5 | 1/2 | 25.4 |
| 22MDL-12GS | M30X2.0 | 3/4 | 28.5 |
| 28MDL-16GS | M36X2.0 | 1 | 33.3 |

### GS-FDLORX — Female DIN 24° Cone Swivel - Light Series with O-Ring



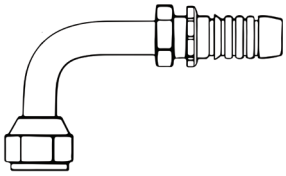
| Part # | MDL F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 12FDLORX-6GS | M18X1.5 | 3/8 | 37.1 |
| 15FDLORX-8GS | M22X1.5 | 1/2 | 35.6 |
| 18FDLORX-10GS | M26X1.5 | 5/8 | 41.4 |
| 22FDLORX-12GS | M30X2.0 | 3/4 | 46.0 |
| 28FDLORX-12GS | M36X2.0 | 3/4 | 48.1 |
| 28FDLORX-16GS | M36X2.0 | 1 | 48.5 |
| 35FDLORX-20GS | M45X2.0 | 1 1/4 | 61.2 |

### GS-FDLORX45 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 45° Bent Tube



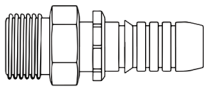
| Part # | MDL F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 15FDLORX45-8GS | M22X1.5 | 1/2 | 20.1 | 57.2 |
| 22FDLORX45-12GS | M30X2.0 | 3/4 | 29.7 | 84.8 |
| 28FDLORX45-16GS | M36X2.0 | 1 | 30.7 | 99.1 |

### GS-FDLORX90 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 90° Bent Tube



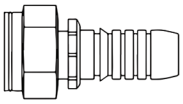
| Part # | MDL F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FDLORX90-6GS | M18X1.5 | 3/8 | 36.8 | 42.2 |
| 15FDLORX90-8GS | M22X1.5 | 1/2 | 41.9 | 50.3 |
| 18FDLORX90-10GS | M26X1.5 | 5/8 | 51.6 | 63.3 |
| 22FDLORX90M-12GS | M30X2.0 | 3/4 | 62.0 | 72.6 |
| 28FDLORX90M-16GS | M36X2.0 | 1 | 70.1 | 68.8 |

## GS-MDH — Male DIN 24° Cone Seat - Heavy Series



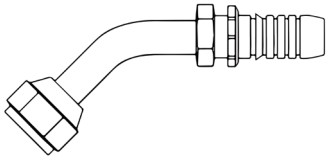
| Part # | MDH M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 12MDH-6GS | M20X1.5 | 3/8 | 27.9 |
| 14MDH-6GS | M22X1.5 | 3/8 | 30.0 |
| 16MDH-8GS | M24X1.5 | 1/2 | 30.0 |
| 20MDH-10GS | M30X2.0 | 5/8 | 34.8 |
| 20MDH-12GS | M30X2.0 | 3/4 | 34.0 |
| 25MDH-12GS | M36X2.0 | 3/4 | 38.1 |
| 25MDH-16GS | M36X2.0 | 1 | 40.1 |
| 30MDH-12GS | M42X2.0 | 3/4 | 26.9 |
| 30MDH-16GS | M42X2.0 | 1 | 42.2 |
| 38MDH-20GS | M52X2.0 | 1 1/4 | 51.8 |

## GS-FDHORX — Female DIN 24° Cone Swivel - Heavy Series with O-Ring



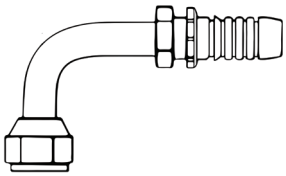
| Part # | MDH F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 10FDHORX-6GS | M18X1.5 | 3/8 | 35.8 |
| 12FDHORX-6GS | M20X1.5 | 3/8 | 37.1 |
| 12FDHORX-8GS | M20X1.5 | 1/2 | 38.9 |
| 14FDHORX-6GS | M22X1.5 | 3/8 | 39.6 |
| 14FDHORX-8GS | M22X1.5 | 1/2 | 38.9 |
| 16FDHORX-8GS | M24X1.5 | 1/2 | 41.4 |
| 20FDHORX-8GS | M30X2.0 | 1/2 | 49.9 |
| 20FDHORX-10GS | M30X2.0 | 5/8 | 49.9 |
| 20FDHORX-12GS | M30X2.0 | 3/4 | 52.1 |
| 25FDHORX-10GS | M36X2.0 | 5/8 | 53.6 |
| 25FDHORX-12GS | M36X2.0 | 3/4 | 56.4 |
| 25FDHORX-16GS | M36X2.0 | 1 | 59.7 |
| 30FDHORX-16GS | M42X2.0 | 1 | 61.7 |
| 38FDHORX-16GS | M52X2.0 | 1 | 55.1 |
| 38FDHORX-20GS | M52X2.0 | 1 1/4 | 73.9 |

## GS-FDHORX45 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 45° Bent Tube



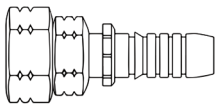
| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FDHORX45-6GS | M20X1.5 | 3/8 | 72.9 | 35.8 |
| 14FDHORX45-6GS | M22X1.5 | 3/8 | 75.4 | 37.1 |
| 16FDHORX45-8GS | M24X1.5 | 1/2 | 21.6 | 56.6 |
| 20FDHORX45-10GS | M30X2.0 | 5/8 | 24.9 | 71.4 |
| 20FDHORX45-12GS | M30X2.0 | 3/4 | 29.7 | 110.0 |
| 25FDHORX45M-12GS | M36X2.0 | 3/4 | 31.2 | 86.4 |
| 25FDHORX45M-16GS | M36X2.0 | 1 | 35.1 | 42.2 |
| 30FDHORX45-16GS | M42X2.0 | 1 | 35.1 | 103.4 |
| 38FDHORX45M-20GS | M52X2.0 | 1 1/4 | 42.4 | 125.0 |

## GS-FDHORX90 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 90° Bent Tube



| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FDHORX90-6GS | M20X1.5 | 3/8 | 36.8 | 37.1 |
| 14FDHORX90-6GS | M22X1.5 | 3/8 | 39.9 | 42.2 |
| 16FDHORX90M-8GS | M24X1.5 | 1/2 | 43.9 | 48.5 |
| 20FDHORX90-10GS | M30X2.0 | 5/8 | 51.0 | 46.6 |
| 20FDHORX90-12GS | M30X2.0 | 3/4 | 62.0 | 72.4 |
| 25FDHORX90M-12GS | M36X2.0 | 3/4 | 64.0 | 72.4 |
| 25FDHORX90-16GS | M36X2.0 | 1 | 76.0 | 94.5 |
| 30FDHORX90M-16GS | M42X2.0 | 1 | 76.0 | 91.2 |
| 38FDHORX90M-20GS | M52X2.0 | 1 1/4 | 87.1 | 109.5 |

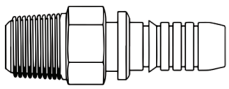
## GS-FKX — Female Komatsu Style Japanese Metric Swivel



| Part # | JIS (Komatsu) F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8FKX-8GS | M22X1.5 | 1/2 | 37.1 |
| 10FKX-10GS | M24X1.5 | 5/8 | 44.7 |
| 12FKX-12GS | M30X1.5 | 3/4 | 50.8 |
| 16FKX-16GS | M33X1.5 | 1 | 58.2 |

# NPT GlobalSpiral Two Piece Tails

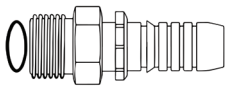
**GS-MP** | **Male Pipe (NPTF - 30° Cone Seat)**



| Part # | NPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6MP-6GS | 3/8-18 | 3/8 | 33.3 |
| 8MP-6GS | 1/2-14 | 3/8 | 37.1 |
| 8MP-8GS | 1/2-14 | 1/2 | 36.3 |
| 8MP-10GS | 1/2-14 | 5/8 | 34.0 |
| 8MP-12GS | 1/2-14 | 3/4 | 39.1 |
| 12MP-8GS | 3/4-14 | 1/2 | 39.6 |
| 12MP-10GS | 3/4-14 | 5/8 | 40.6 |
| 12MP-12GS | 3/4-14 | 3/4 | 39.1 |
| 12MP-16GS | 3/4-14 | 1 | 44.2 |
| 16MP-12GS | 1-11 1/2 | 3/4 | 46.0 |
| 16MP-16GS | 1-11 1/2 | 1 | 49.3 |
| 20MP-16GS | 1 1/4-11 1/2 | 1 | 52.3 |
| 20MP-20GS | 1 1/4-11 1/2 | 1 1/4 | 55.9 |

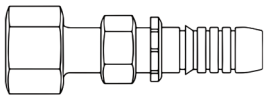
## ORFS GlobalSpiral Two Piece Tails

### GS-MFFOR — Male Flat-Face O-Ring



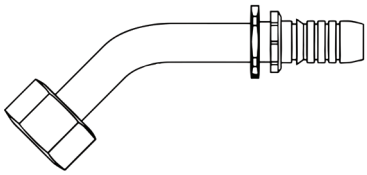
| Part # | ORFS M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6MFFOR-6GS | 11/16 | 3/8 | 28.2 |
| 8MFFOR-8GS | 13/16-16 | 1/2 | 30.5 |
| 10MFFOR-8GS | 1-14 | 1/2 | 36.6 |
| 10MFFOR-10GS | 1-14 | 5/8 | 36.6 |
| 12MFFOR-10GS | 1 3/16-12 | 5/8 | 38.6 |
| 12MFFOR-12GS | 1 3/16-12 | 3/4 | 38.1 |
| 16MFFOR-12GS | 1 7/16-12 | 3/4 | 43.9 |
| 16MFFOR-16GS | 1 7/16-12 | 1 | 45.2 |
| 20MFFOR-16GS | 1 11/16-12 | 1 | 45.2 |
| 20MFFOR-20GS | 1 11/16-12 | 1 1/4 | 49.0 |

### GS-FFORX — Female Flat-Face O-Ring Swivel



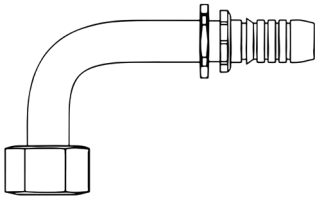
| Part # | ORFS F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 6FFORX-6GS | 11/16-16 | 3/8 | 33.3 |
| 8FFORX-6GS | 13/16-16 | 3/8 | 36.3 |
| 8FFORX-8GS | 13/16-16 | 1/2 | 35.6 |
| 10FFORX-8GS | 1-14 | 1/2 | 40.4 |
| 10FFORX-10GS | 1-14 | 5/8 | 43.7 |
| 10FFORX-12GS | 1-14 | 3/4 | 46.0 |
| 12FFORX-8GS | 1 3/16-12 | 1/2 | 41.4 |
| 12FFORX-10GS | 1 3/16-12 | 5/8 | 44.7 |
| 12FFORX-12GS | 1 3/16-12 | 3/4 | 48.1 |
| 12FFORX-16GS | 1 3/16-12 | 1 | 74.2 |
| 16FFORX-12GS | 1 7/16-12 | 3/4 | 52.1 |
| 16FFORX-16GS | 1 7/16-12 | 1 | 54.4 |
| 20FFORX-12GS | 1 11/16-12 | 3/4 | 48.3 |
| 20FFORX-16GS | 1 11/16-12 | 1 | 54.4 |
| 20FFORX-20GS | 1 11/16-12 | 1 1/4 | 56.9 |

## GS-FFORX45 Female Flat-Face O-Ring Swivel - 45° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FFORX45S-6GS | 11/16-16 | 3/8 | 11.0 | 46.2 |
| 8FFORX45S-6GS | 13/16-16 | 3/8 | 15.0 | 57.2 |
| 8FFORX45S-8GS | 13/16-16 | 1/2 | 15.0 | 56.4 |
| 10FFORX45S-8GS | 1-14 | 1/2 | 16.0 | 61.5 |
| 10FFORX45S-10GS | 1-14 | 5/8 | 16.0 | 60.7 |
| 12FFORX45S-8GS | 1 3/16-12 | 1/2 | 21.1 | 77.5 |
| 12FFORX45S-12GS | 1 3/16-12 | 3/4 | 21.1 | 73.9 |
| 16FFORX45S-12GS | 1 7/16-12 | 3/4 | 23.9 | 86.1 |
| 16FFORX45S-16GS | 1 7/16-12 | 1 | 23.9 | 87.9 |
| 20FFORX45S-16GS | 1 11/16-12 | 1 | 24.9 | 107.7 |
| 20FFORX45-032-20GS | 1 11/16-12 | 1 1/4 | 32.0 | 109.0 |

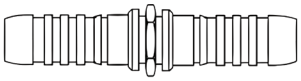
## GS-FFORX90 — Female Flat-Face O-Ring Swivel - 90° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 6FFORX90S-6GS | 11/16-16 | 3/8 | 23.1 | 42.2 |
| 6FFORX90L-6GS | 11/16-16 | 3/8 | 54.1 | 49.3 |
| 8FFORX90M-6GS | 13/16-16 | 3/8 | 40.9 | 49.3 |
| 8FFORX90S-8GS | 13/16-16 | 1/2 | 29.0 | 48.5 |
| 8FFORX90M-8GS | 13/16-16 | 1/2 | 40.9 | 48.5 |
| 8FFORX90-083-8GS | 13/16-16 | 1/2 | 83.1 | 48.5 |
| 10FFORX90S-8GS | 1-14 | 1/2 | 32.0 | 63.5 |
| 10FFORX90M-8GS | 1-14 | 1/2 | 47.0 | 63.5 |
| 10FFORX90L-8GS | 1-14 | 1/2 | 70.1 | 63.5 |
| 10FFORX90S-10GS | 1-14 | 5/8 | 32.0 | 56.4 |
| 10FFORX90M-10GS | 1-14 | 5/8 | 47.0 | 55.9 |
| 10FFORX90L-10GS | 1-14 | 5/8 | 70.1 | 62.0 |
| 10FFORX90S-12GS | 1-14 | 3/4 | 32.0 | 59.9 |
| 12FFORX90S-8GS | 1 3/16-12 | 1/2 | 48.0 | 69.6 |
| 12FFORX90S-10GS | 1 3/16-12 | 5/8 | 32.0 | 69.6 |
| 12FFORX90M-12GS | 1 3/16-12 | 3/4 | 57.9 | 77.0 |
| 12FFORX90L-12GS | 1 3/16-12 | 3/4 | 96.0 | 77.0 |
| 12FFORX90S-12GS | 1 3/16-12 | 3/4 | 48.0 | 77.0 |
| 16FFORX90S-12GS | 1 7/16-12 | 3/4 | 55.9 | 86.1 |
| 16FFORX90M-12GS | 1 7/16-12 | 3/4 | 71.1 | 86.1 |
| 16FFORX90L-12GS | 1 7/16-12 | 3/4 | 114.1 | 86.1 |
| 16FFORX90S-16GS | 1 7/16-12 | 1 | 55.9 | 87.6 |
| 16FFORX90M-16GS | 1 7/16-12 | 1 | 71.1 | 87.6 |
| 16FFORX90L-16GS | 1 7/16-12 | 1 | 114.1 | 87.6 |
| 20FFORX90S-16GS | 1 11/16-12 | 1 | 64.0 | 97.5 |
| 20FFORX90M-16GS | 1 11/16-12 | 1 | 78.0 | 97.3 |
| 20FFORX90L-16GS | 1 11/16-12 | 1 | 129.0 | 97.3 |
| 20FFORX90S-20GS | 1 11/16-12 | 1 1/4 | 64.0 | 100.8 |
| 20FFORX90M-20GS | 1 11/16-12 | 1 1/4 | 78.0 | 100.8 |
| 20FFORX90L-20GS | 1 11/16-12 | 1 1/4 | 129.0 | 100.8 |
| 24FFORX90-064-20GS | 2-12 | 1 1/4 | 64.0 | 100.8 |

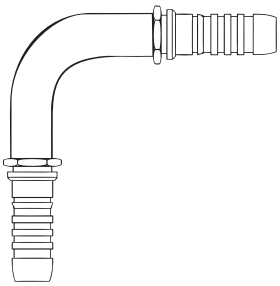
# Hose Extenders GlobalSpiral Two Piece Tails

## GS-HLE — Hose Length Extender



| Part # | Hose ID | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8HLE-8GS | 1/2 | 1/2 | 19.1 |
| 12HLE-12GS | 3/4 | 3/4 | 19.8 |
| 16HLE-16GS | 1 | 1 | 24.9 |
| 20HLE-20GS | 1 1/4 | 1 1/4 | 29.7 |

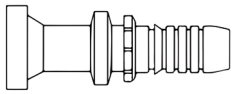
## GS-HLE90 — Hose Length Extender - 90° Bent Tube



| Part # | Hose ID | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12HLE90-112-12GS | 3/4 | 3/4 | 111.5 | 60.5 |
| 16HLE90-127-16GS | 1 | 1 | 127 | 70.5 |

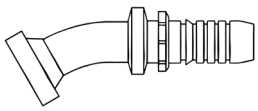
## Flanged GlobalSpiral Two Piece Tails

**GS-FL** — **Code 61 O-Ring Flange**



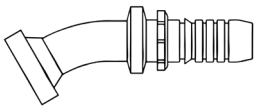
| Part # | Code 61 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8FL-6GS | 1/2 | 3/8 | 54.1 |
| 8FL-8GS | 1/2 | 1/2 | 55.6 |
| 8FL-12GS | 1/2 | 3/4 | 61.0 |
| 12FL-8GS | 3/4 | 1/2 | 60.5 |
| 12FL-10GS | 3/4 | 5/8 | 58.7 |
| 12FL-12GS | 3/4 | 3/4 | 59.9 |
| 12FL-16GS | 3/4 | 1 | 61.0 |
| 16FL-8GS | 1 | 1/2 | 34.8 |
| 16FL-12GS | 1 | 3/4 | 59.9 |
| 16FL-16GS | 1 | 1 | 68.6 |
| 16FL-20GS | 1 | 1 1/4 | 64.8 |
| 20FL-12GS | 1 1/4 | 3/4 | 59.9 |
| 20FL-16GS | 1 1/4 | 1 | 68.3 |
| 20FL-20GS | 1 1/4 | 1 1/4 | 74.9 |
| 24FL-16GS | 1 1/2 | 1 | 48.3 |
| 24FL-20GS | 1 1/2 | 1 1/4 | 88.9 |
| 32FL-20GS | 2 | 1 1/4 | 73.9 |

**GS-FL22** — **Code 61 O-Ring Flange - 22 1/2° Bent Tube**



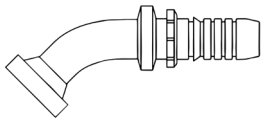
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL22M-8GS | 1/2 | 1/2 | 8.9 | 58.4 |
| 12FL22M-12GS | 3/4 | 3/4 | 11.0 | 80.0 |
| 16FL22M-12GS | 1 | 3/4 | 14.0 | 82.0 |
| 16FL22M-16GS | 1 | 1 | 14.0 | 98.3 |
| 20FL22M-16GS | 1 1/4 | 1 | 15.0 | 111.0 |
| 20FL22M-20GS | 1 1/4 | 1 1/4 | 15.0 | 106.9 |
| 24FL22M-20GS | 1 1/2 | 1 1/4 | 18.0 | 114.8 |

## GS-FL30 Code 61 O-Ring Flange - 30° Bent Tube



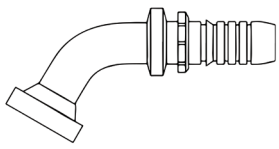
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL30M-8GS | 3/4 | 1/2 | 16.0 | 62.5 |
| 12FL30M-12GS | 3/4 | 3/4 | 16.0 | 78.0 |
| 16FL30M-12GS | 1 | 3/4 | 19.1 | 70.1 |
| 16FL30M-16GS | 1 | 1 | 19.1 | 96.5 |
| 20FL30M-16GS | 1 1/4 | 1 | 22.1 | 109.0 |
| 20FL30M-20GS | 1 1/4 | 1 1/4 | 22.1 | 104.9 |
| 24FL30M-20GS | 1 1/2 | 1 1/4 | 30.0 | 111.0 |

## GS-FL45 Code 61 O-Ring Flange - 45° Bent Tube



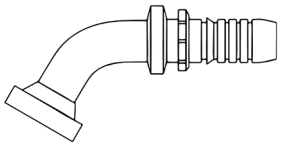
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL45M-6GS | 1/2 | 3/8 | 19.1 | 57.2 |
| 8FL45M-8GS | 1/2 | 1/2 | 19.1 | 56.4 |
| 12FL45M-8GS | 3/4 | 1/2 | 25.9 | 63.5 |
| 12FL45M-10GS | 3/4 | 5/8 | 25.9 | 76.7 |
| 12FL45M-12GS | 3/4 | 3/4 | 25.9 | 72.9 |
| 16FL45S-12GS | 1 | 3/4 | 27.9 | 74.9 |
| 16FL45M-16GS | 1 | 1 | 32.0 | 90.7 |
| 16FL45M-20GS | 1 | 1 1/4 | 32.0 | 92.0 |
| 20FL45M-16GS | 1 1/4 | 1 | 38.1 | 100.8 |
| 20FL45S-20GS | 1 1/4 | 1 1/4 | 32.0 | 98.8 |
| 24FL45S-20GS | 1 1/2 | 1 1/4 | 38.1 | 104.9 |

## GS-FL60 Code 61 O-Ring Flange - 60° Bent Tube



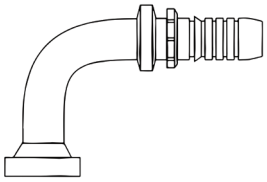
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL60M-8GS | 1/2 | 1/2 | 26.9 | 66.6 |
| 12FL60M-12GS | 3/4 | 3/4 | 37.1 | 86.1 |
| 16FL60M-12GS | 1 | 3/4 | 43.9 | 85.1 |
| 16FL60M-16GS | 1 | 1 | 43.9 | 100.8 |
| 20FL60M-16GS | 1 1/4 | 1 | 55.1 | 100.1 |
| 20FL60M-20GS | 1 1/4 | 1 1/4 | 55.1 | 115.8 |
| 24FL60M-20GS | 1 1/2 | 1 1/4 | 64.0 | 124.0 |

## GS-FL67 Code 61 O-Ring Flange - 67 1/2° Bent Tube



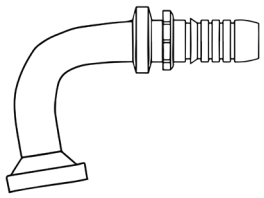
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL67-032-8GS | 3/4 | 1/2 | 32.0 | 56.1 |
| 12FL67M-12GS | 3/4 | 3/4 | 41.9 | 81.0 |
| 16FL67M-12GS | 1 | 3/4 | 51.1 | 78.0 |
| 16FL67M-16GS | 1 | 1 | 51.1 | 94.2 |
| 20FL67M-16GS | 1 1/4 | 1 | 64.0 | 91.2 |
| 20FL67M-20GS | 1 1/4 | 1 1/4 | 64.0 | 106.9 |
| 24FL67S-20GS | 1 1/2 | 1 1/4 | 51.1 | 93.0 |

## GS-FL90 Code 61 O-Ring Flange - 90° Bent Tube



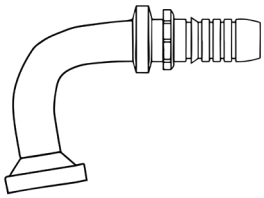
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FL90M-6GS | 1/2 | 3/8 | 39.9 | 51.3 |
| 8FL90M-8GS | 1/2 | 1/2 | 39.9 | 50.6 |
| 8FL90L-8GS | 1/2 | 1/2 | 83.1 | 50.6 |
| 8FL90-050-12GS | 1/2 | 3/4 | 50.0 | 71.1 |
| 12FL90M-8GS | 3/4 | 1/2 | 57.9 | 50.3 |
| 12FL90M-10GS | 3/4 | 5/8 | 57.9 | 59.7 |
| 12FL90M-12GS | 3/4 | 3/4 | 57.9 | 61.0 |
| 12FL90-100-12GS | 3/4 | 3/4 | 100.1 | 61.0 |
| 12FL90-125-12GS | 3/4 | 3/4 | 125.0 | 71.1 |
| 12FL90M-16GS | 3/4 | 1 | 57.9 | 129.0 |
| 12FL90-16GS | 3/4 | 1 | 80.0 | 78.7 |
| 16FL90S-12GS | 1 | 3/4 | 61.0 | 61.0 |
| 16FL90M-12GS | 1 | 3/4 | 70.1 | 61.0 |
| 16FL90-080-12GS | 1 | 3/4 | 80.0 | 77.0 |
| 16FL90-178-12GS | 1 | 3/4 | 178.1 | 60.5 |
| 16FL90S-16GS | 1 | 1 | 61.0 | 78.5 |
| 16FL90M-16GS | 1 | 1 | 70.1 | 78.5 |
| 16FL90-120-16GS | 1 | 1 | 119.9 | 77.2 |
| 16FL90-210-16GS | 1 | 1 | 210.1 | 76.7 |
| 16FL90M-20GS | 1 | 1 1/4 | 70.1 | 88.9 |
| 16FL90-215-20GS | 1 | 1 1/4 | 214.9 | 88.9 |
| 20FL90-054-12GS | 1 1/4 | 3/4 | 54.1 | 80.0 |
| 20FL90-125-12GS | 1 1/4 | 3/4 | 125.0 | 70.1 |
| 20FL90S-16GS | 1 1/4 | 1 | 68.1 | 76.7 |
| 20FL90M-16GS | 1 1/4 | 1 | 89.9 | 76.0 |
| 20FL90-120-16GS | 1 1/4 | 1 | 119.9 | 77.2 |
| 20FL90S-20GS | 1 1/4 | 1 1/4 | 68.1 | 94.0 |
| 20FL90M-20GS | 1 1/4 | 1 1/4 | 89.9 | 94.0 |
| 20FL90-168-20GS | 1 1/4 | 1 1/4 | 167.9 | 95.0 |
| 24FL90-060-16GS | 1 1/2 | 1 | 59.9 | 88.1 |
| 24FL90S-16GS | 1 1/2 | 1 | 81.0 | 77.2 |
| 24FL90S-20GS | 1 1/2 | 1 1/4 | 81.0 | 94.0 |
| 24FL90-118-20GS | 1 1/2 | 1 1/4 | 118.1 | 94.0 |

## GS-FL100 Code 61 O-Ring Flange - 100° Bent Tube



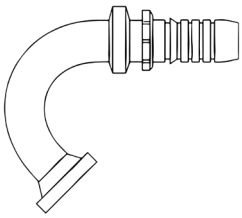
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 16FL100-059-12GS | 1 | 3/4 | 58.9 | 74.2 |

## GS-FL110 Code 61 O-Ring Flange - 110° Bent Tube



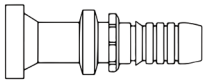
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL110-064-12GS | 3/4 | 3/4 | 64.0 | 80.0 |
| 16FL110-073-16GS | 1 | 1 | 72.9 | 91.7 |
| 20FL110-073-16GS | 1 1/4 | 1 | 72.9 | 61.2 |
| 20FL110-080-20GS | 1 1/4 | 1 1/4 | 80.0 | 110.0 |
| 24FL110-080-20GS | 1 1/2 | 1 1/4 | 80.0 | 110.0 |

## GS-FL135 Code 61 O-Ring Flange - 135° Bent Tube



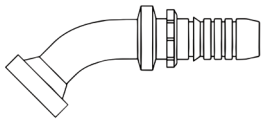
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FL135-070-12GS | 3/4 | 3/4 | 70.1 | 46.0 |

## GS-FLK — Code 61 Komatsu Style O-Ring Flange



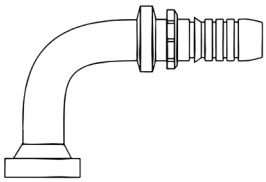
| Part # | Komatsu Flange | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 10FLK-10GS | 5/8 | 5/8 | 63.8 |

## GS-FLK45 — Code 61 Komatsu Style O-Ring Flange - 45° Bent Tube



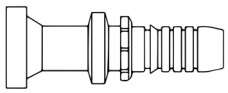
| Part # | Komatsu Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 10FLK45-026-10GS | 5/8 | 5/8 | 25.9 | 70.6 |

## GS-FLK90 — Code 61 Komatsu Style O-Ring Flange - 90° Bent Tube



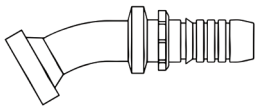
| Part # | Komatsu Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 10FLK90-055-10GS | 5/8 | 5/8 | 55.1 | 59.7 |

## GS-FLH — Code 62 O-Ring Flange Heavy



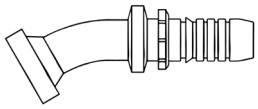
| Part # | Code 62 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 8FLH-8GS | 1/2 | 1/2 | 55.6 |
| 8FLH-10GS | 1/2 | 5/8 | 58.7 |
| 12FLH-8GS | 3/4 | 1/2 | 55.6 |
| 12FLH-10GS | 3/4 | 5/8 | 58.7 |
| 12FLH-12GS | 3/4 | 3/4 | 63.0 |
| 12FLH-16GS | 3/4 | 1 | 72.6 |
| 16FLH-12GS | 1 | 3/4 | 63.0 |
| 16FLH-16GS | 1 | 1 | 68.6 |
| 16FLH-20GS | 1 | 1 1/4 | 92.0 |
| 20FLH-16GS | 1 1/4 | 1 | 68.3 |
| 20FLH-20GS | 1 1/4 | 1 1/4 | 74.9 |
| 24FLH-20GS | 1 1/2 | 1 1/4 | 88.9 |

## GS-FLH22 — Code 62 O-Ring Flange Heavy - 22 1/2° Bent Tube



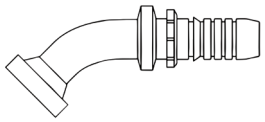
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 16FLH22M-12GS | 1 | 3/4 | 14.0 | 87.1 |
| 16FLH22M-16GS | 1 | 1 | 14.0 | 98.6 |
| 20FLH22M-16GS | 1 1/4 | 1 | 15.0 | 114.8 |
| 20FLH22M-20GS | 1 1/4 | 1 1/4 | 15.0 | 114.8 |
| 24FLH22M-20GS | 1 1/2 | 1 1/4 | 18.0 | 116.8 |

## GS-FLH30 — Code 62 O-Ring Flange Heavy - 30° Bent Tube



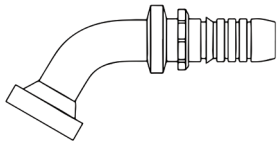
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLH30M-12GS | 3/4 | 3/4 | 16.0 | 78.0 |
| 16FLH30M-12GS | 1 | 3/4 | 19.1 | 78.0 |
| 16FLH30M-16GS | 1 | 1 | 19.1 | 96.5 |
| 20FLH30M-16GS | 1 1/4 | 1 | 38.1 | 101.1 |
| 20FLH30M-20GS | 1 1/4 | 1 1/4 | 22.1 | 112.8 |
| 24FLH30M-20GS | 1 1/2 | 1 1/4 | 30.0 | 112.8 |

## GS-FLH45 — Code 62 O-Ring Flange Heavy - 45° Bent Tube



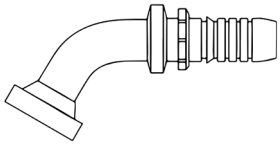
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FLH45M-8GS | 1/2 | 1/2 | 19.1 | 56.4 |
| 8FLH45M-12GS | 1/2 | 3/4 | 19.1 | 64.8 |
| 12FLH45M-8GS | 3/4 | 1/2 | 25.9 | 63.5 |
| 12FLH45M-10GS | 3/4 | 5/8 | 25.9 | 76.7 |
| 12FLH45M-12GS | 3/4 | 3/4 | 25.9 | 72.9 |
| 12FLH45M-16GS | 3/4 | 1 | 25.9 | 84.6 |
| 16FLH45M-12GS | 1 | 3/4 | 32.0 | 79.0 |
| 16FLH45M-16GS | 1 | 1 | 32.0 | 90.7 |
| 16FLH45M-20GS | 1 | 1 1/4 | 32.0 | 99.8 |
| 20FLH45M-16GS | 1 1/4 | 1 | 38.1 | 101.1 |
| 20FLH45M-20GS | 1 1/4 | 1 1/4 | 38.1 | 104.9 |
| 24FLH45M-20GS | 1 1/2 | 1 1/4 | 43.9 | 104.9 |

## GS-FLH60 — Code 62 O-Ring Flange Heavy - 60° Bent Tube



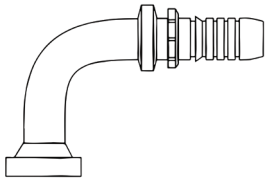
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLH60M-12GS | 3/4 | 3/4 | 37.1 | 86.1 |
| 16FLH60M-12GS | 1 | 3/4 | 43.9 | 85.1 |
| 16FLH60M-16GS | 1 | 1 | 43.9 | 100.6 |
| 20FLH60M-20GS | 1 1/4 | 1 1/4 | 55.1 | 114.8 |
| 24FLH60M-20GS | 1 1/2 | 1 1/4 | 64.0 | 122.9 |

## GS-FLH67 — Code 62 O-Ring Flange Heavy - 67 1/2° Bent Tube



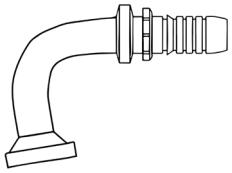
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 16FLH67M-16GS | 1 | 1 | 51.1 | 94.5 |

## GS-FLH90 — Code 62 O-Ring Flange Heavy - 90° Bent Tube



| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 8FLH90M-8GS | 1/2 | 1/2 | 39.9 | 50.6 |
| 8FLH90-080-8GS | 1/2 | 1/2 | 80.0 | 50.6 |
| 8FLH90M-10GS | 1/2 | 5/8 | 39.9 | 62.7 |
| 12FLH90M-8GS | 3/4 | 1/2 | 57.9 | 50.6 |
| 12FLH90M-10GS | 3/4 | 5/8 | 57.9 | 59.7 |
| 12FLH90M-12GS | 3/4 | 3/4 | 57.9 | 61.0 |
| 12FLH90-100-12GS | 3/4 | 3/4 | 100.1 | 61.0 |
| 12FLH90-122-12GS | 3/4 | 3/4 | 121.9 | 71.1 |
| 12FLH90M-16GS | 3/4 | 1 | 57.9 | 78.5 |
| 16FLH90S-12GS | 1 | 3/4 | 61.0 | 61.0 |
| 16FLH90M-12GS | 1 | 3/4 | 70.1 | 61.0 |
| 16FLH90-140-12GS | 1 | 3/4 | 140.0 | 65.0 |
| 16FLH90S-16GS | 1 | 1 | 61.0 | 78.5 |
| 16FLH90M-16GS | 1 | 1 | 70.1 | 78.5 |
| 16FLH90-090-16GS | 1 | 1 | 89.9 | 83.3 |
| 16FLH90-120-16GS | 1 | 1 | 119.9 | 77.2 |
| 16FLH90S-20GS | 1 | 1 1/4 | 61.0 | 88.9 |
| 16FLH90M-20GS | 1 | 1 1/4 | 70.1 | 88.9 |
| 16FLH90-100-20GS | 1 | 1 1/4 | 100.1 | 88.9 |
| 20FLH90M-12GS | 1 1/4 | 3/4 | 89.9 | 71.1 |
| 20FLH90S-16GS | 1 1/4 | 1 | 68.1 | 76.7 |
| 20FLH90M-16GS | 1 1/4 | 1 | 89.9 | 76.7 |
| 20FLH90-076-20GS | 1 1/4 | 1 1/4 | 76.0 | 94.0 |
| 20FLH90-120-20GS | 1 1/4 | 1 1/4 | 119.9 | 94.0 |
| 20FLH90-152-20GS | 1 1/4 | 1 1/4 | 151.9 | 94.0 |
| 20FLH90M-20GS | 1 1/4 | 1 1/4 | 89.9 | 94.0 |
| 24FLH90S-16GS | 1 1/2 | 1 | 81.0 | 77.2 |
| 24FLH90S-20GS | 1 1/2 | 1 1/4 | 81.0 | 94.0 |

## GS-FLH110 — Code 62 O-Ring Flange Heavy - 110° Bent Tube

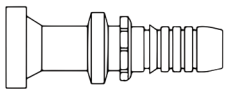


| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLH110-064-12GS | 3/4 | 3/4 | 70.1 | 46.0 |



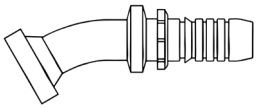
(08) 9451 2204

## GS-FLC — Caterpillar Style O-Ring Flange



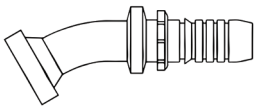
| Part # | CAT Flange | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 12FLC-12GS | 3/4 | 3/4 | 94.0 |
| 16FLC-12GS | 1 | 3/4 | 94.0 |
| 16FLC-16GS | 1 | 1 | 98.3 |
| 20FLC-16GS | 1 1/4 | 1 | 98.3 |
| 20FLC-20GS | 1 1/4 | 1 1/4 | 115.8 |
| 24FLC-20GS | 1 1/2 | 1 1/4 | 115.8 |

## GS-FLC22 — Caterpillar Style O-Ring Flange - 22 1/2° Bent Tube



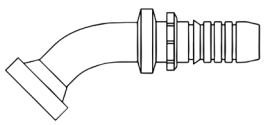
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLC22-016-12GS | 3/4 | 3/4 | 16.0 | 92.0 |
| 16FLC22-017-16GS | 1 | 1 | 17.0 | 96.0 |
| 20FLC22-017-16GS | 1 1/4 | 1 | 17.0 | 96.0 |
| 20FLC22-017-20GS | 1 1/4 | 1 1/4 | 17.0 | 113.8 |
| 24FLC22-017-20GS | 1 1/2 | 1 1/4 | 17.0 | 113.8 |

## GS-FLC30 — Caterpillar Style O-Ring Flange - 30° Bent Tube



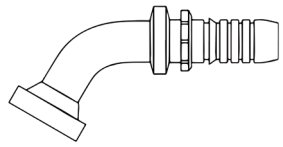
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLC30-022-12GS | 3/4 | 3/4 | 22.1 | 88.9 |
| 16FLC30-022-12GS | 1 | 3/4 | 22.1 | 89.9 |
| 16FLC30-023-16GS | 1 | 1 | 23.1 | 93.7 |
| 20FLC30-023-16GS | 1 1/4 | 1 | 23.1 | 93.7 |
| 20FLC30-024-20GS | 1 1/4 | 1 1/4 | 23.9 | 112.0 |
| 24FLC30-024-20GS | 1 1/2 | 1 1/4 | 23.9 | 112.0 |

## GS-FLC45 — Caterpillar Style O-Ring Flange - 45° Bent Tube



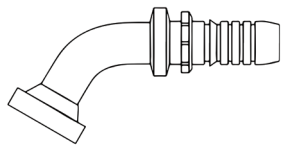
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLC45-035-12GS | 3/4 | 3/4 | 35.1 | 82.0 |
| 12FLC45-066-12GS | 3/4 | 3/4 | 66.0 | 114.1 |
| 16FLC45-035-12GS | 1 | 3/4 | 35.1 | 82.0 |
| 16FLC45-037-16GS | 1 | 1 | 37.1 | 86.4 |
| 20FLC45-037-16GS | 1 1/4 | 1 | 37.1 | 86.4 |
| 20FLC45-037-20GS | 1 1/4 | 1 1/4 | 37.1 | 104.9 |
| 24FLC45-037-20GS | 1 1/2 | 1 1/4 | 37.1 | 104.9 |

## GS-FLC60 Caterpillar Style O-Ring Flange - 60° Bent Tube



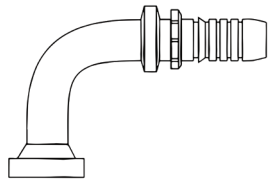
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 16FLC60-048-12GS | 1 | 3/4 | 48.0 | 95.0 |
| 16FLC60-050-16GS | 1 | 1 | 50.0 | 105.9 |
| 20FLC60-050-16GS | 1 1/4 | 1 | 50.0 | 105.9 |
| 20FLC60-052-20GS | 1 1/4 | 1 1/4 | 52.1 | 127.0 |
| 24FLC60-052-20GS | 1 1/2 | 1 1/4 | 52.1 | 127.0 |

## GS-FLC67 Caterpillar Style O-Ring Flange - 67 1/2° Bent Tube



| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 16FLC67-057-16GS | 1 | 1 | 56.9 | 99.1 |
| 20FLC67-057-16GS | 1 1/4 | 1 | 56.9 | 99.1 |
| 20FLC67-059-20GS | 1 1/4 | 1 1/4 | 58.9 | 119.9 |
| 24FLC67-059-20GS | 1 1/2 | 1 1/4 | 58.9 | 119.9 |

## GS-FLC90 Caterpillar Style O-Ring Flange - 90° Bent Tube



| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 12FLC90-068-12GS | 3/4 | 3/4 | 68.1 | 73.9 |
| 12FLC90-128-12GS | 3/4 | 3/4 | 128.0 | 66.0 |
| 16FLC90-068-12GS | 1 | 3/4 | 68.1 | 66.0 |
| 16FLC90-074-16GS | 1 | 1 | 73.9 | 74.2 |
| 16FLC90-132-16GS | 1 | 1 | 132.1 | 74.2 |
| 20FLC90-074-16GS | 1 1/4 | 1 | 73.9 | 74.2 |
| 20FLC90-132-16GS | 1 1/4 | 1 | 131.8 | 74.2 |
| 20FLC90-077-20GS | 1 1/4 | 1 1/4 | 77.0 | 95.0 |
| 20FLC90-150-20GS | 1 1/4 | 1 1/4 | 149.9 | 170.2 |
| 24FLC90-077-20GS | 1 1/2 | 1 1/4 | 77.0 | 95.0 |
| 24FLC90-150-20GS | 1 1/2 | 1 1/4 | 150.1 | 95.0 |

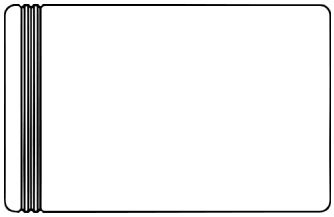
# Gates GlobalSpiral Plus - GSP Series

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Metric GlobalSpiral Plus Two Piece Tails . . . . . B63
NPT GlobalSpiral Plus Two Piece Tails . . . . . B64
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Hose Extender GlobalSpiral Plus Two Piece Tails . . . . . B66
Flange GlobalSpiral Plus Two Piece Tails . . . . . B67

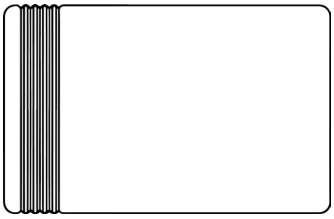
## GlobalSpiral Plus Two Piece Tail Ferrules

### GSP-1F-2 — GSP Ferrule for Wire Braid Hose



| Part # | Hose ID |
|---|---|
| 24GSP1F-2 | 1 1/2 |
| 32GSP1F-2 | 2 |

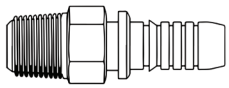
### GSP-1F-4 — GSP Ferrule for 4-Spiral Hose



| Part # | Hose ID |
|---|---|
| 24GSP1F-4 | 1 1/2 |
| 32GSP1F-4 | 2 |

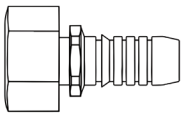
# BSP GlobalSpiral Plus Two Piece Tails

## GSP-MBSPT — Male British Standard Pipe Tapered



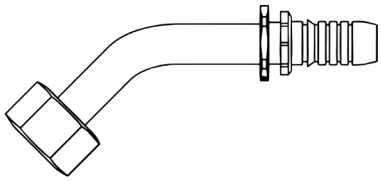
| Part # | BSPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24MBSPT-24GSP | 1 1/2-11 | 1 1/2 | 56.4 |
| 32MBSPT-32GSP | 2-11 | 2 | |

## GSP-FBSPORX — Female British Standard Parallel Pipe O-Ring Swivel



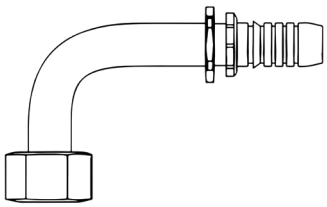
| Part # | BSPP F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FBSPORX-24GSP | 1 1/2-11 | 1 1/2 | 51.1 |
| 32FBSPORX-32GSP | 2-11 | 2 | 59.9 |

## GSP-FBSPORX45 — Female British Standard Parallel Pipe O-Ring Swivel - 45° Bent Tube



| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FBSPORX45-24GSP | 1 1/2-11 | 1 1/2 | 49.8 | 140.7 |
| 32FBSPORX45-32GSP | 2-11 | 2 | 62.2 | 183.9 |

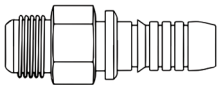
## GSP-FBSPORX90 — Female British Standard Parallel Pipe O-Ring Swivel - 90° Bent Tube



| Part # | BSPP F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FBSPORX90-24GSP | 1 1/2-11 | 1 1/2 | 99.8 | 120.7 |
| 32FBSPORX90-32GSP | 2-11 | 2 | 129.0 | 162.6 |

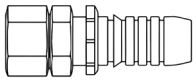
## JIC GlobalSpiral Plus Two Piece Tails

### GSP-MJ — Male JIC 37° Flare



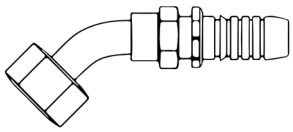
| Part # | JIC M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 20MJ-24GSP | 1 5/8-12 | 1 1/2 | 53.3 |
| 24MJ-24GSP | 1 7/8-12 | 1 1/2 | 56.4 |
| 32MJ-32GSP | 2 1/2-12 | 2 | 69.1 |

### GSP-FJX — Female JIC 37° Flare Swivel



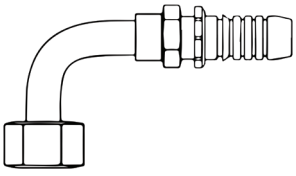
| Part # | JIC F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FJX-24GSP | 1 7/8-12 | 1 1/2 | 69.6 |
| 32FJX-24GSP | 2 1/2-12 | 1 1/2 | 80.5 |
| 32FJX-32GSP | 2 1/2-12 | 2 | 80.5 |

### GSP-FJX45 — Female JIC 37° Flare Swivel - 45° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FJX45-050-24GSP | 1 7/8-12 | 1 1/2 | 50.0 | 159.5 |
| 32FJX45-065-32GSP | 2 1/2-12 | 2 | 65 | 175.5 |

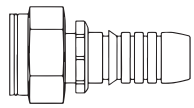
### GSP-FJX90 — Female JIC 37° Flare Swivel - 90° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FJX90-089-24GSP | 1 7/8-12 | 1 1/2 | 88.9 | 138.4 |
| 24FJX90-118-24GSP | 1 7/8-12 | 1 1/2 | 118.1 | 115.8 |
| 32FJX90M-32GSP | 2 1/2-12 | 2 | 140.0 | 179.6 |

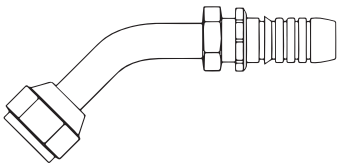
# Metric GlobalSpiral Plus Two Piece Tails

## GSP-FDLORX — Female DIN 24° Cone Swivel - Light Series with O-Ring



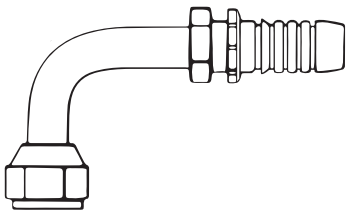
| Part # | MDL F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 42FDLORX-24GSP | M52X2 | 1 1/2 | 38.9 |

## GSP-FDLORX45 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 45° Bent Tube



| Part # | MDL F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 42FDLORX45-24GSP | M52X2 | 1 1/2 | 38.9 |

## GSP-FDLORX90 — Female DIN 24° Cone Swivel - Light Series with O-Ring - 90° Bent Tube



| Part # | MDL F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 42FDLORX90-24GSP | M52X2 | 1 1/2 | 38.9 |

A Hydraulic Hose

B Hose Fittings

C Adaptors

D Quick Release Couplings

E Diagnostics

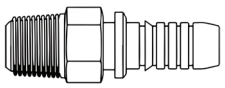
F Valves

G Grease

H Accessories

## NPT GlobalSpiral Plus Two Piece Tails

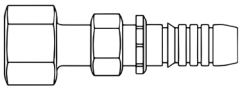
**GSP-MP** | **Male Pipe (NPTF - 30° Cone Seat)**



| Part # | NPT M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24MP-24GSP | 1 1/2-11 1/2 | 1 1/2 | 59.4 |

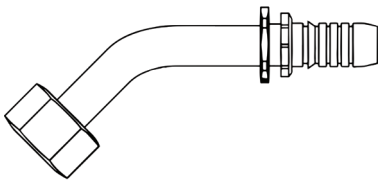
# ORFS GlobalSpiral Plus Two Piece Tails

## GSP-FFORX — Female Flat-Face O-Ring Swivel



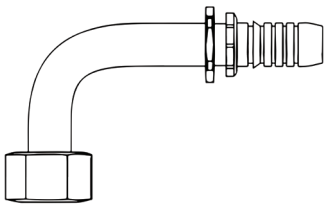
| Part # | ORFS F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FFORX-24GSP | 2-12 | 1 1/2 | 60.2 |

## GSP-FFORX45 — Female Flat-Face O-Ring Swivel - 45° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FFORX45-036-24GSP | 2-12 | 1 1/2 | 68.6 | 122.2 |

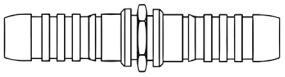
## GSP-FFORX90 — Female Flat-Face O-Ring Swivel - 90° Bent Tube



| Part # | ORFS F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FFORX90M-24GSP | 2-12 | 1 1/2 | 86.6 | 122.2 |
| 24FFORX90L-24GSP | 2-12 | 1 1/2 | 140.7 | 122.2 |

# Hose Extender GlobalSpiral Plus Two Piece Tails

**GSP-HLE** | **Hose Length Extender**



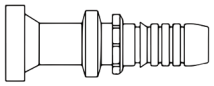
| Part # | Hose ID | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24HLE-24GSP | 1 1/2 | 1 1/2 | 38.9 |
| 32HLE-32GSP | 2 | 2 | 38.6 |



(08) 9451 2204

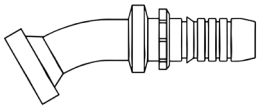
# Flange GlobalSpiral Plus Two Piece Tails

## GSP-FL — Code 61 O-Ring Flange



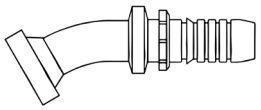
| Part # | Code 61 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 20FL-24GSP | 1 1/4 | 1 1/2 | 72.4 |
| 24FL-24GSP | 1 1/2 | 1 1/2 | 79.3 |
| 24FL-32GSP | 1 1/2 | 2 | 63.3 |
| 32FL-24GSP | 2 | 1 1/2 | 76.0 |
| 32FL-32GSP | 2 | 2 | 67.3 |
| 40FL-32GSP | 2 1/2 | 2 | 76.0 |

## GSP-FL22 — Code 61 O-Ring Flange - 22 1/2° Bent Tube



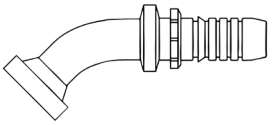
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL22M-24GSP | 1 1/2 | 1 1/2 | 18.0 | 137.4 |
| 32FL22M-24GSP | 2 | 1 1/2 | 22.1 | 140.2 |
| 32FL22M-32GSP | 2 | 2 | 24.6 | 183.4 |

## GSP-FL30 — Code 61 O-Ring Flange - 30° Bent Tube



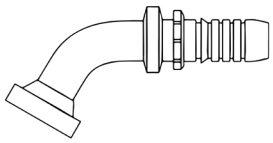
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL30S-24GSP | 1 1/2 | 1 1/2 | 24.9 | 134.9 |
| 32FL30M-24GSP | 2 | 1 1/2 | 32.0 | 136.9 |
| 32FL30M-32GSP | 2 | 2 | 31.8 | 180.3 |

## GSP-FL45 — Code 61 O-Ring Flange - 45° Bent Tube



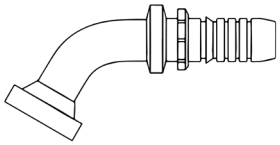
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 20FL45S-24GSP | 1 1/4 | 1 1/2 | 32.0 | 114.1 |
| 24FL45S-24GSP | 1 1/2 | 1 1/2 | 38.1 | 128.3 |
| 24FL45S-32GSP | 1 1/2 | 2 | 38.1 | 113.8 |
| 32FL45S-24GSP | 2 | 1 1/2 | 52.1 | 126.2 |
| 32FL45-066-32GSP | 2 | 2 | 66.0 | 165.1 |

## GSP-FL60 Code 61 O-Ring Flange - 60° Bent Tube



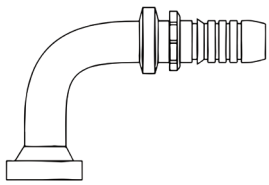
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL60S-24GSP | 1 1/2 | 1 1/2 | 52.8 | 157.5 |
| 32FL60S-24GSP | 2 | 1 1/2 | 74.9 | 160.0 |
| 32FL60S-32GSP | 2 | 2 | 74.9 | 166.6 |

## GSP-FL67 Code 61 O-Ring Flange - 67 1/2° Bent Tube



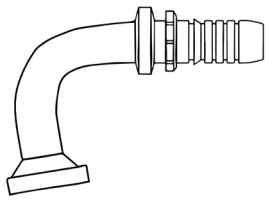
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL67S-24GSP | 1 1/2 | 1 1/2 | 61.0 | 149.9 |
| 32FL67S-24GSP | 2 | 1 1/2 | 84.6 | 149.9 |
| 32FL67S-32GSP | 2 | 2 | 97.5 | 166.6 |

## GSP-FL90 Code 61 O-Ring Flange - 90° Bent Tube



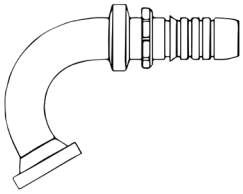
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 20FL90S-24GSP | 1 1/4 | 1 1/2 | 68.1 | 99.6 |
| 24FL90S-24GSP | 1 1/2 | 1 1/2 | 81.0 | 110.0 |
| 24FL90M-24GSP | 1 1/2 | 1 1/2 | 103.9 | 101.9 |
| 24FL90-148-24GSP | 1 1/2 | 1 1/2 | 148.1 | 101.9 |
| 24FL90S-32GSP | 1 1/2 | 2 | 81.0 | 104.9 |
| 32FL90-080-24GSP | 2 | 1 1/2 | 80.0 | 101.9 |
| 32FL90S-24GSP | 2 | 1 1/2 | 119.9 | 101.9 |
| 32FL90-170-24GSP | 2 | 1 1/2 | 169.9 | 101.4 |
| 32FL90-114-32GSP | 2 | 2 | 114.1 | 130.1 |
| 32FL90-165-32GSP | 2 | 2 | 165.1 | 153.9 |
| 32FL90-200-32GSP | 2 | 2 | 202.4 | 130.3 |
| 40FL90-110-32GSP | 2 1/2 | 2 | 111.3 | 126.5 |

## GSP-FL110 Code 61 O-Ring Flange - 110° Bent Tube



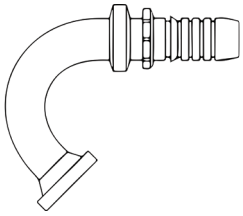
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL110-094-24GSP | 1 1/2 | 1 1/2 | 94.0 | 128.8 |
| 32FL110-140-32GSP | 2 | 2 | 140.0 | 162.6 |

## GSP-FL120 Code 61 O-Ring Flange - 120° Bent Tube



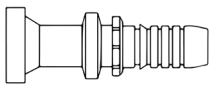
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL120-119-24GSP | 1 1/2 | 1 1/2 | 119.1 | 109.5 |

## GSP-FL125 Code 61 O-Ring Flange - 125° Bent Tube



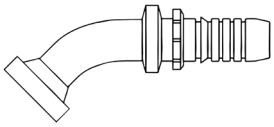
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 32FL125-150-32GSP | 2 | 2 | 99.1 | 119.4 |

## GSP-FLH — Code 62 O-Ring Flange Heavy



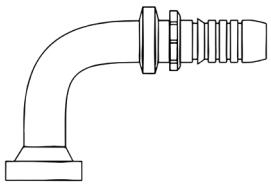
| Part # | Code 62 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FLH-24GSP | 1 1/2 | 1 1/2 | 93.5 |
| 32FLH-24GSP | 2 | 1 1/2 | 93.5 |
| 32FLH-32GSP | 2 | 2 | 87.9 |

## GSP-FLH45 — Code 62 O-Ring Flange Heavy - 45° Bent Tube



| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH45M-24GSP | 1 1/2 | 1 1/2 | 43.9 | 118.1 |
| 32FLH45S-24GSP | 2 | 1 1/2 | 52.1 | 126.5 |
| 32FLH45-066-32GSP | 2 | 2 | 66.0 | 179.3 |

## GSP-FLH90 — Code 62 O-Ring Flange Heavy - 90° Bent Tube



| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH90-094-24GSP | 1 1/2 | 1 1/2 | 94.0 | 101.9 |
| 32FLH90S-24GSP | 2 | 1 1/2 | 119.9 | 103.1 |
| 32FLH90M-32GSP | 2 | 2 | 137.2 | 129.3 |

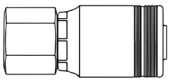
# Gates GlobalSpiral MAX - GSM Series

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BSP GlobalSpiral MAX One Piece Tail . . . . . B72
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Metric GlobalSpiral MAX One Piece Tail . . . . . B74
Hose Extender GlobalSpiral MAX One Piece Tail . . . . . B75
Flange GlobalSpiral MAX One Piece Tail . . . . . B76

## BSP GlobalSpiral MAX One Piece Tail

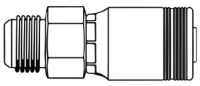
**GSM-FBSPORX** | **Female British Standard Parallel Pipe O-Ring Swivel**



| Part # | BSPP F | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FBSPORX-24GSM | 1 1/2-11 | 1 1/2 | 58.9 |
| 32FBSPORX-32GSM | 2-11 | 2 | 70.0 |

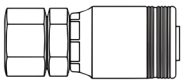
# JIC GlobalSpiral MAX One Piece Tail

## GSM-MJ — Male JIC 37° Flare



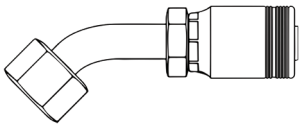
| Part # | JIC M | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24MJ-24GSM | 1 7/8-12 | 1 1/2 | 67.3 |
| 32MJ-32GSM | 2 1/2-12 | 2 | 82.1 |

## GSM-FJX — Female JIC 37° Flare Swivel



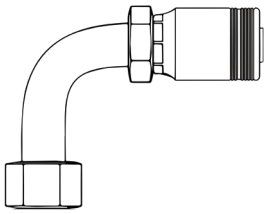
| Part # | JIC F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FJX-24GSM | 1 7/8-12 | 1 1/2 | 77.2 |
| 32FJX-32GSM | 2 1/2-12 | 2 | 91.1 |

## GSM-FJX45 — Female JIC 37° Flare Swivel - 45° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FJX45-034-24GSM | 1 7/8-12 | 1 1/2 | 34.0 | 130.8 |

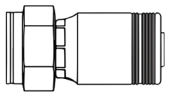
## GSM-FJX90 — Female JIC 37° Flare Swivel - 90° Bent Tube



| Part # | JIC F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FJX90M-24GSM | 1 7/8-12 | 1 1/2 | 86.1 | 182.4 |

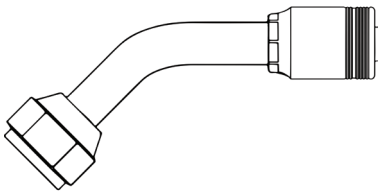
## Metric GlobalSpiral MAX One Piece Tail

### GSM-FDHORX — Female DIN 24° Cone Swivel - Heavy Series with O-Ring



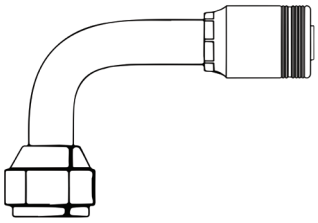
| Part # | MDH F/S | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 38FDHORX-24GSM | M52X2.0 | 1 1/2 | 85.1 |

### GSM-FDHORX45 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 45° Bent Tube



| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 38FDHORX45-24GSM | M52X2.0 | 1 1/2 | 44.2 | 142.0 |

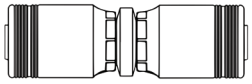
### GSM-FDHORX90 — Female DIN 24° Cone Swivel - Heavy Series with O-Ring - 90° Bent Tube



| Part # | MDH F/S | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 38FDHORX90-24GSM | M52X2.0 | 1 1/2 | 92.0 | 127.5 |

# Hose Extender GlobalSpiral MAX One Piece Tail

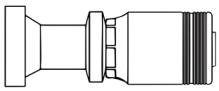
**GSM-HLE** | **Hose Length Extender**



| Part # | Hose ID | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 32HLE-32GSM | 2 | 2 | 54.4 |
| 40HLE-40GSM | 2 1/2 | 2 1/2 | 68.0 |
| 48HLE-48GSM | 3 | 3 | 73.9 |

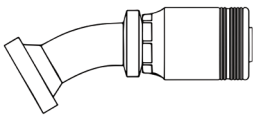
## Flange GlobalSpiral MAX One Piece Tail

### GSM-FL — Code 61 O-Ring Flange



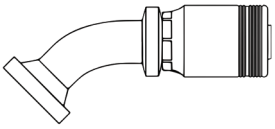
| Part # | Code 61 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FL-24GSM | 1 1/2 | 1 1/2 | 85.1 |
| 32FL-24GSM | 2 | 1 1/2 | 93.0 |
| 32FL-32GSM | 2 | 2 | 137.4 |
| 40FL-40GSM | 2 1/2 | 2 1/2 | 122.9 |

### GSM-FL30 — Code 61 O-Ring Flange - 30° Bent Tube



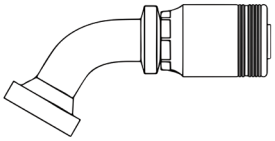
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL30M-24GSM | 1 1/2 | 1 1/2 | 45.0 | 127.0 |

### GSM-FL45 — Code 61 O-Ring Flange - 45° Bent Tube



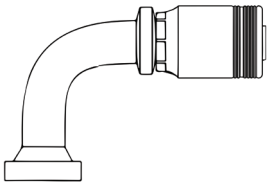
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL45M-24GSM | 1 1/2 | 1 1/2 | 43.9 | 134.9 |
| 32FL45S-24GSM | 2 | 1 1/2 | 52.1 | 136.6 |
| 32FL45M-32GSM | 2 | 2 | 56.0 | 173.6 |

### GSM-FL60 — Code 61 O-Ring Flange - 60° Bent Tube



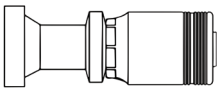
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL60M-24GSM | 1 1/2 | 1 1/2 | 64.0 | 146.1 |

## GSM-FL90 — Code 61 O-Ring Flange - 90° Bent Tube



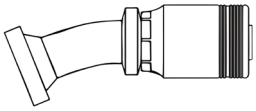
| Part # | Code 61 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FL90S-24GSM | 1 1/2 | 1 1/2 | 81.0 | 119.9 |
| 32FL90-130-32GSM | 2 | 2 | 130.0 | 150.5 |

## GSM-FLH — Code 62 O-Ring Flange Heavy



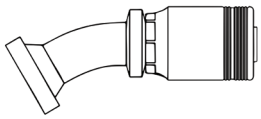
| Part # | Code 62 | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 20FLH-24GSM | 1 1/4 | 1 1/2 | 104.9 |
| 24FLH-24GSM | 1 1/2 | 1 1/2 | 104.9 |
| 24FLH-32GSM | 1 1/2 | 2 | 116.0 |
| 32FLH-24GSM | 2 | 1 1/2 | 104.9 |
| 32FLH-32GSM | 2 | 2 | 137.4 |

## GSM-FLH22 — Code 62 O-Ring Flange Heavy - 22° Bent Tube



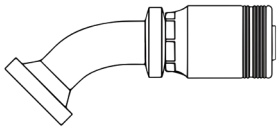
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH22M-24GSM | 1 1/2 | 1 1/2 | 17.9 | 148.4 |
| 24FLH20-024-24GSM | 1 1/2 | 1 1/2 | 23.9 | 147.6 |

## GSM-FLH30 — Code 62 O-Ring Flange Heavy - 30° Bent Tube



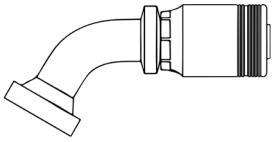
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH30-28-24GSM | 1 1/2 | 1 1/2 | 27.9 | 130.0 |
| 24FLH30M-24GSM | 1 1/2 | 1 1/2 | 89.9 | 144.8 |
| 32FLH30-040-32GSM | 2 | 2 | 40.0 | 194.6 |

## GSM-FLH45 — Code 62 O-Ring Flange Heavy - 45° Bent Tube



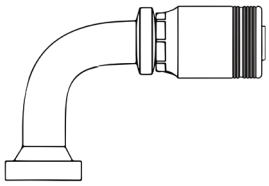
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH45M-24GSM | 1 1/2 | 1 1/2 | 43.9 | 136.9 |
| 32FLH45M-24GSM | 2 | 1 1/2 | 55.9 | 146.0 |
| 32FLH45-063-32GSM | 2 | 2 | 63.0 | 152.5 |

## GSM-FLH60 — Code 62 O-Ring Flange Heavy - 60° Bent Tube



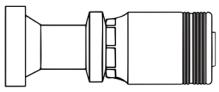
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH60M-24GSM | 1 1/2 | 1 1/2 | 63.5 | 158.2 |
| 32FLH60M-32GSM | 2 | 2 | 83.1 | 197.4 |

## GSM-FLH90 — Code 62 O-Ring Flange Heavy - 90° Bent Tube



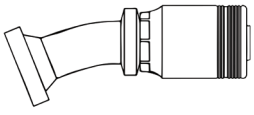
| Part # | Code 62 | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLH90-094-24GSM | 1 1/2 | 1 1/2 | 94.0 | 118.9 |
| 24FLH90-150-24GSM | 1 1/2 | 1 1/2 | 149.9 | 118.9 |
| 32FLH90S-24GSM | 2 | 1 1/2 | 119.9 | 118.9 |
| 32FLH90S-32GSM | 2 | 2 | 120.0 | 150.0 |
| 32FLH90M-32GSM | 2 | 2 | 138.0 | 150.0 |
| 32FLH90-159-32GSM | 2 | 2 | 159.0 | 150.4 |

## GSM-FLC — Caterpillar Style O-Ring Flange



| Part # | CAT Flange | Hose ID | Cut Off Factor mm |
|---|---|---|---|
| 24FLC-24GSM | 1 1/2 | 1 1/2 | 94.2 |
| 24FLCL-24GSM | 1 1/2 | 1 1/2 | 143.3 |
| 32FLC-24GSM | 2 | 1 1/2 | 104.9 |
| 32FLC-32GSM | 2 | 2 | 113.8 |

## GSM-FLC22 — Caterpillar Style O-Ring Flange - 22° Bent Tube

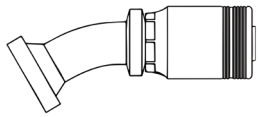


| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLC22-017-24GSM | 1 1/2 | 1 1/2 | 16.8 | 141.5 |
| 32FLC22-022-24GSM | 2 | 1 1/2 | 22.1 | 104.9 |

# Hose Fittings

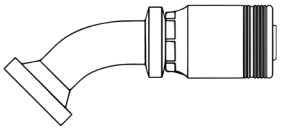


## GSM-FLC30 Caterpillar Style O-Ring Flange - 30° Bent Tube



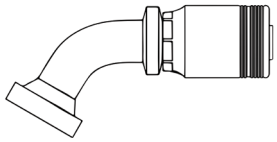
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLC30-023-24GSM | 1 1/2 | 1 1/2 | 22.9 | 139.5 |
| 32FLC30-035-24GSM | 2 | 1 1/2 | 34.8 | 161.6 |
| 32FLC30-035-32GSM | 2 | 2 | 35.0 | 187.2 |

## GSM-FLC45 Caterpillar Style O-Ring Flange - 45° Bent Tube



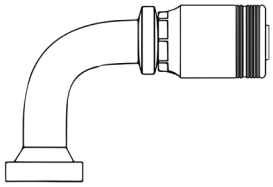
| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLC45-039-24GSM | 1 1/2 | 1 1/2 | 39.1 | 132.1 |
| 32FLC45-059-24GSM | 2 | 1 1/2 | 58.9 | 149.0 |
| 32FLC45-064-32GSM | 2 | 2 | 64.0 | 173.5 |

## GSM-FLC60 Caterpillar Style O-Ring Flange - 60° Bent Tube



| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLC60-055-24GSM | 1 1/2 | 1 1/2 | 55.1 | 156.7 |
| 32FLC60-087-24GSM | 2 | 1 1/2 | 86.9 | 201.9 |
| 32FLC60-083-32GSM | 2 | 2 | 83.1 | 207.5 |

## GSM-FLC90 Caterpillar Style O-Ring Flange - 90° Bent Tube



| Part # | CAT Flange | Hose ID | Drop Length mm | Cut Off Factor mm |
|---|---|---|---|---|
| 24FLC90-087-24GSM | 1 1/2 | 1 1/2 | 87.1 | 119.4 |
| 32FLC90-140-24GSM | 2 | 1 1/2 | 140.0 | 129.9 |
| 32FLC90-130-32GSM | 2 | 2 | 130.0 | 150.5 |


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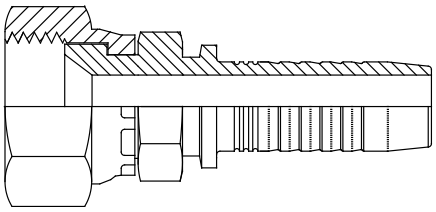
# TRUFLOW
# Two Piece Crimp Tails

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# Hose Fittings





| C | J | FS | | | - | 08 | - | 08 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | | 6 | | 7 |

## 1 Connection Type

| | |
|---|---|
| C | Crimp Tail |
| FA | Field Attachable Tail |
| FAR5 | R5 Field Attachable Tail |
| P | Push Lock Tail |
| S | Suction Tail |

## 2 Thread Type

| | |
|---|---|
| B | BSPT |
| BANJO | Banjo (BSPP and Metric) |
| BP | BSPP |
| J | JIC |
| JIS | JIS (BSPP) |
| KM | Komatsu (JIS Metric) |
| MBANJO | Metric Banjo |
| MH | Metric Heavy (S) |
| ML | Metric Light (L) |
| N | NPT |
| ORS | ORFS |
| S | SAE |
| SINV | SAE Inverted Flare |
| SF61 | SAE Flange Code 61 |
| SF62 | SAE Flange Code 62 |
| U | UNO |
| UP | UNO (with positional nut) |

## 3 Thread Gender

| | |
|---|---|
| FS | Female Swivel |
| M | Male |
| MS | Male Swivel |

## 4 Bend Orientation

| | |
|---|---|
| 45 | 45 |
| 90 | 90 |

*Omit if Straight

## 5 Bend Style

| | |
|---|---|
| C | Compact |
| S | Swept |

*Omit if Straight

## 6 Thread Sizes Imperial

| Dash Size | BSP / NPT / JIS (BSPP) | JIC / UNO | ORFS | SAE (45) | FLANGE |
|---|---|---|---|---|---|
| 02 | 1/8 | 5/16 | | | |
| 03 | | 3/8 | | | |
| 04 | 1/4 | 7/16 | 9/16 | | |
| 05 | | 1/2 | | | |
| 06 | 3/8 | 9/16 | 11/16 | 5/8 | |
| 08 | 1/2 | 3/4 | 13/16 | | 1/2 |
| 10 | 5/8 | 7/8 | 1 | 7/8 | 5/8 |
| 12 | 3/4 | 1 1/16 | 1 3/16 | 1 1/16 | 3/4 |
| 14 | | 1 3/16 | | | |
| 16 | 1 | 1 5/16 | 1 7/16 | | 1 |
| 20 | 1 1/4 | 1 5/8 | 1 11/16 | | 1 1/4 |
| 24 | 1 1/2 | 1 7/8 | 2 | | 1 1/2 |
| 32 | 2 | 2 1/2 | | | 2 |
| 40 | | | | | 2 1/2 |



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### Metric

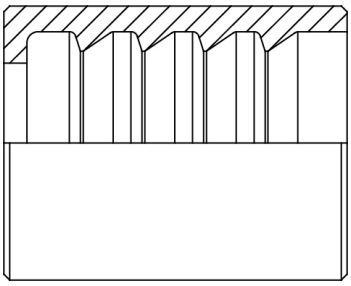
| Dash | Light | Heavy | Komatsu JIS |
|---|---|---|---|
| **-10M** | M10X1.0 (6LL) | | |
| **-12M** | M12X1.5 (6L) | | M12X1.5 |
| **-14M** | M14X1.5 (8L) | M14X1.5 (6S) | M14X1.5 |
| **-16M** | M16X1.5 (10L) | M16X1.5 (8S) | M16X1.5 |
| **-18M** | M18X1.5 (12L) | M18X1.5 (10S) | M18X1.5 |
| **-20M** | | M20X1.5 (12S) | M20X1.5 |
| **-22M** | M22X1.5 (15L) | M22X1.5 (14S) | M22X1.5 |
| **-24M** | | M24X1.5 (16S) | M24X1.5 |
| **-26M** | M26X1.5 (18L) | | |
| **-27M** | | | |
| **-30M** | M30X2 (22L) | M30X2 (20S) | M30X1.5 |
| **-33M** | | | M33X1.5 |
| **-36M** | M36X2 (28L) | M36X2 (25S) | M36X1.5 |
| **-42M** | | M42X2 (30S) | M42X1.5 |
| **-45M** | M45X2 (35L) | | |
| **-52M** | M52X2 (42L) | M52X2 (38S) | |

### 7 Hose Size

| Dash | Hose ID | Hose ID (R5 Only) |
|---|---|---|
| 02 | 1/8 | |
| 03 | 3/16 | |
| 04 | 1/4 | 3/16 |
| 05 | 5/16 | 1/4 |
| 06 | 3/8 | 5/16 |
| 08 | 1/2 | 13/32 |
| 10 | 5/8 | 1/2 |
| 12 | 3/4 | 5/8 |
| 16 | 1 | 7/8 |
| 20 | 1 1/4 | 1 1/8 |
| 24 | 1 1/2 | |
| 32 | 2 | |

## Two Piece Crimp Ferrules

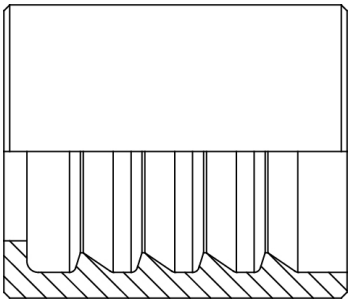
### CN1 — Crimp Tail Ferrule Suit R1T & 1SN



| Part # | Hose ID |
|---|---|
| CN1-04 | 1/4 |
| CN1-04SS* | 1/4 |
| CN1-06 | 3/8 |
| CN1-06SS* | 3/8 |
| CN1-08 | 1/2 |
| CN1-08SS* | 1/2 |
| CN1-10 | 5/8 |
| CN1-12 | 3/4 |
| CN1-12SS* | 3/4 |
| CN1-16 | 1 |
| CN1-16SS* | 1 |
| CN1-20 | 1 1/4 |
| CN1-24 | 1 1/2 |
| CN1-32 | 2 |

* SS = Stainless Steel

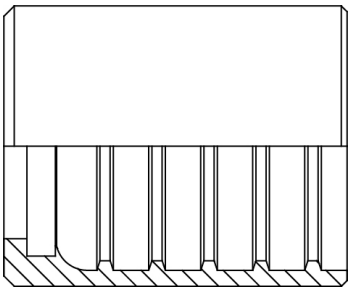
### CN2 — Crimp Tail Ferrule Suit R2T & 2 SN



| Part # | Hose ID |
|---|---|
| CN2-04 | 1/4 |
| CN2-04SS* | 1/4 |
| CN2-05 | 5/16 |
| CN2-06 | 3/8 |
| CN2-06SS* | 3/8 |
| CN2-08 | 1/2 |
| CN2-08SS* | 1/2 |
| CN2-10 | 5/8 |
| CN2-12 | 3/4 |
| CN2-12SS* | 3/4 |
| CN2-16 | 1 |
| CN2-16SS* | 1 |
| CN2-20 | 1 1/4 |
| CN2-20SS* | 1 1/4 |
| CN2-24 | 1 1/2 |
| CN2-32 | 2 |

* SS = Stainless Steel

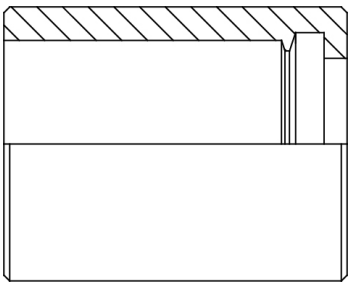
## CN7 Crimp Tail Ferrule Suit R7



| Part # | Hose ID |
|---|---|
| CN7-03 | 3/16 |
| CN7-04 | 1/4 |
| CN7-05 | 5/16 |
| CN7-05SS* | 5/16 |
| CN7-06 | 3/8 |
| CN7-06SS* | 3/8 |
| CN7-08 | 1/2 |
| CN7-12 | 3/4 |
| CN7-16 | 1 |

* SS = Stainless Steel

## CT Crimp Tail Ferrule Suit PTFE Hose

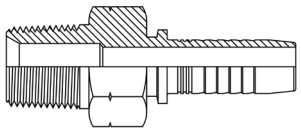


| Part # | Hose ID |
|---|---|
| CT-04 | 1/4 |
| CT-04SS* | 1/4 |
| CT-06 | 3/8 |
| CT-06SS* | 3/8 |
| CT-08 | 1/2 |
| CT-10 | 5/8 |
| CT-12 | 3/4 |
| CT-12SS* | 3/4 |
| CT-16 | 1 |

* SS = Stainless Steel

## BSP Two Piece Crimp Tails

### CBM — BSPT Male X Crimp Tail Straight

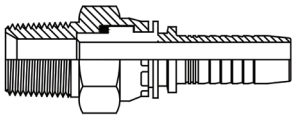


| Part # | BSPT M | Hose ID |
|---|---|---|
| CBM-02-04 | 1/8 | 1/4 |
| CBM-04-04 | 1/4 | 1/4 |
| CBM-04-04SS* | 1/4 | 1/4 |
| CBM-04-06 | 1/4 | 3/8 |
| CBM-06-04 | 3/8 | 1/4 |
| CBM-06-05 | 3/8 | 5/16 |
| CBM-06-06 | 3/8 | 3/8 |
| CBM-06-08 | 3/8 | 1/2 |
| CBM-08-06 | 1/2 | 3/8 |
| CBM-08-08 | 1/2 | 1/2 |
| CBM-08-08SS* | 1/2 | 1/2 |
| CBM-08-12 | 1/2 | 3/4 |
| CBM-12-10 | 3/4 | 5/8 |
| CBM-12-12 | 3/4 | 3/4 |
| CBM-12-12SS* | 3/4 | 3/4 |
| CBM-12-16 | 3/4 | 1 |
| CBM-16-12 | 1 | 3/4 |
| CBM-16-16 | 1 | 1 |
| CBM-20-16SS* | 1 1/4 | 1 |
| CBM-20-20 | 1 1/4 | 1 1/4 |
| CBM-24-24 | 1 1/2 | 1 1/2 |
| CBM-32-32 | 2 | 2 |

* SS = Stainless Steel

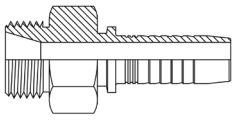
### CBMS — BSPT Male Swivel X Crimp Tail Straight

**Not to be used as a live swivel.**



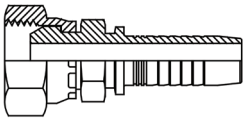
| Part # | BSPT M/S | Hose ID |
|---|---|---|
| CBMS-08-08 | 1/2 | 1/2 |

## CBPM — BSPP Male X Crimp Tail Straight



| Part # | BSPP M | Hose ID |
|---|---|---|
| CBPM-04-04 | 1/4 | 1/4 |
| CBPM-06-04 | 3/8 | 1/4 |
| CBPM-06-06 | 3/8 | 3/8 |
| CBPM-08-06 | 1/2 | 3/8 |
| CBPM-08-08 | 1/2 | 1/2 |
| CBPM-12-12 | 3/4 | 3/4 |
| CBPM-16-12 | 1 | 3/4 |
| CBPM-16-16 | 1 | 1 |

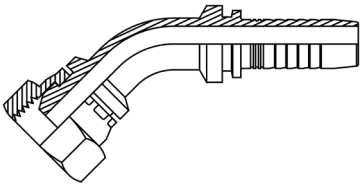
## CBFS — BSPP Female Swivel X Crimp Tail Straight



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| CBFS-02-04 | 1/8 | 1/4 |
| CBFS-04-04 | 1/4 | 1/4 |
| CBFS-04-04SS* | 1/4 | 1/4 |
| CBFS-04-06 | 1/4 | 3/8 |
| CBFS-06-04 | 3/8 | 1/4 |
| CBFS-06-05 | 3/8 | 5/16 |
| CBFS-06-06 | 3/8 | 3/8 |
| CBFS-06-06SS* | 3/8 | 3/8 |
| CBFS-06-08 | 3/8 | 1/2 |
| CBFS-08-06 | 1/2 | 3/8 |
| CBFS-08-08 | 1/2 | 1/2 |
| CBFS-08-08SS* | 1/2 | 1/2 |
| CBFS-08-12 | 1/2 | 3/4 |
| CBFS-10-08 | 5/8 | 1/2 |
| CBFS-10-10 | 5/8 | 5/8 |
| CBFS-12-08 | 3/4 | 1/2 |
| CBFS-12-10 | 3/4 | 5/8 |
| CBFS-12-12 | 3/4 | 3/4 |
| CBFS-12-12SS* | 3/4 | 3/4 |
| CBFS-16-12 | 1 | 3/4 |
| CBFS-16-16 | 1 | 1 |
| CBFS-16-16SS* | 1 | 1 |
| CBFS-20-20 | 1 1/4 | 1 1/4 |
| CBFS-20-20SS* | 1 1/4 | 1 1/4 |
| CBFS-24-24 | 1 1/2 | 1 1/2 |
| CBFS-32-32 | 2 | 2 |

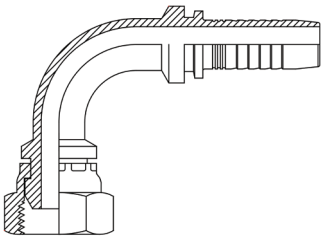
* SS = Stainless Steel

## CBFS45S — BSPP Female Swivel X Crimp Tail Swept 45°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| CBFS45S-04-04 | 1/4 | 1/4 |
| CBFS45S-06-04 | 3/8 | 1/4 |
| CBFS45S-06-06 | 3/8 | 3/8 |
| CBFS45S-08-06 | 1/2 | 3/8 |
| CBFS45S-08-08 | 1/2 | 1/2 |
| CBFS45S-12-12 | 3/4 | 3/4 |
| CBFS45S-16-16 | 1 | 1 |

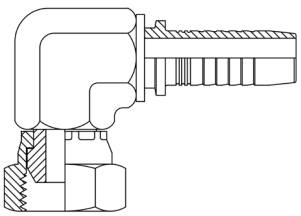
## CBFS90S — BSPP Female Swivel X Crimp Tail Swept 90°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| CBFS90S-02-04 | 1/8 | 1/4 |
| CBFS90S-04-04 | 1/4 | 1/4 |
| CBFS90S-04-04SS* | 1/4 | 1/4 |
| CBFS90S-06-04 | 3/8 | 1/4 |
| CBFS90S-06-06 | 3/8 | 3/8 |
| CBFS90S-06-06SS* | 3/8 | 3/8 |
| CBFS90S-08-06 | 1/2 | 3/8 |
| CBFS90S-08-08 | 1/2 | 1/2 |
| CBFS90S-08-08SS* | 1/2 | 1/2 |
| CBFS90S-10-10 | 5/8 | 5/8 |
| CBFS90S-12-12 | 3/4 | 3/4 |
| CBFS90S-12-12SS* | 3/4 | 3/4 |
| CBFS90S-16-16 | 1 | 1 |
| CBFS90S-16-16SS* | 1 | 1 |
| CBFS90S-20-20 | 1 1/4 | 1 1/4 |
| CBFS90S-20-20SS* | 1 1/4 | 1 1/4 |
| CBFS90S-24-24 | 1 1/2 | 1 1/2 |
| CBFS90S-32-32 | 2 | 2 |

* SS = Stainless Steel

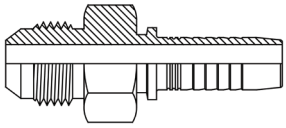
## CBFS90C — BSPP Female Swivel X Crimp Tail Compact 90°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| CBFS90C-04-04 | 1/4 | 1/4 |
| CBFS90C-06-04 | 3/8 | 1/4 |
| CBFS90C-06-06 | 3/8 | 3/8 |
| CBFS90C-08-08 | 1/2 | 1/2 |
| CBFS90C-12-12 | 3/4 | 3/4 |
| CBFS90C-16-16 | 1 | 1 |

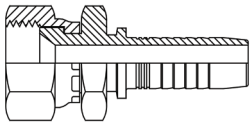
# JIS (BSPP) Two Piece Crimp Tails

## CJISM — JIS Male X Crimp Tail Straight



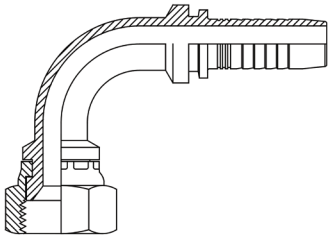
| Part # | JIS (BSPP) M | Hose ID |
|---|---|---|
| CJISM-04-04 | 1/4 | 1/4 |
| CJISM-06-06 | 3/8 | 3/8 |

## CJISFS — JIS Female Swivel X Crimp Tail Straight



| Part # | JIS (BSPP) F/S | Hose ID |
|---|---|---|
| CJISFS-04-04 | 1/4 | 1/4 |
| CJISFS-06-04 | 3/8 | 1/4 |
| CJISFS-06-06 | 3/8 | 3/8 |
| CJISFS-08-06 | 1/2 | 3/8 |
| CJISFS-08-08 | 1/2 | 1/2 |
| CJISFS-12-12 | 3/4 | 3/4 |

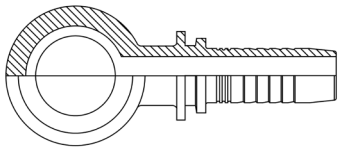
## CJISFS90S — JIS Female Swivel X Crimp Tail Swept 90°



| Part # | JIS (BSPP) F/S | Hose ID |
|---|---|---|
| CJISFS90S-04-04 | 1/4 | 1/4 |
| CJISFS90S-06-04 | 3/8 | 1/4 |
| CJISFS90S-06-06 | 3/8 | 3/8 |
| CJISFS90S-08-08 | 1/2 | 1/2 |

# Banjo (BSPP) Two Piece Crimp Tails

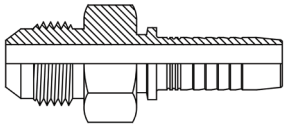
**CBBANJO** | **BSPP Banjo X Crimp Tail Straight**



| Part # | BSPP | Hose ID |
|---|---|---|
| CBANJO-04-04 | 1/4 | 1/4 |
| CBANJO-06-06 | 3/8 | 3/8 |
| CBANJO-08-08 | 1/2 | 1/2 |
| CBANJO-12-12 | 3/4 | 3/4 |
| CBANJO-16-16 | 1 | 1 |

# JIC Two Piece Crimp Tails

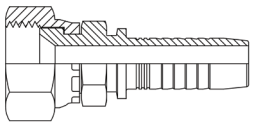
**CJM** | **JIC Male X Crimp Tail Straight**



| Part # | JIC M | Hose ID |
|---|---|---|
| CJM-04-04 | 7/16 | 1/4 |
| CJM-05-04 | 1/2 | 1/4 |
| CJM-06-04 | 9/16 | 1/4 |
| CJM-06-05 | 9/16 | 5/16 |
| CJM-06-06 | 9/16 | 3/8 |
| CJM-08-06 | 3/4 | 3/8 |
| CJM-08-08 | 3/4 | 1/2 |
| CJM-08-08SS* | 3/4 | 1/2 |
| CJM-10-06 | 7/8 | 3/8 |
| CJM-10-08 | 7/8 | 1/2 |
| CJM-10-10 | 7/8 | 5/8 |
| CJM-10-12 | 7/8 | 3/4 |
| CJM-12-10 | 1 1/16 | 5/8 |
| CJM-12-12 | 1 1/16 | 3/4 |
| CJM-12-16 | 1 1/16 | 1 |
| CJM-16-16 | 1 5/16 | 1 |

* SS = Stainless Steel

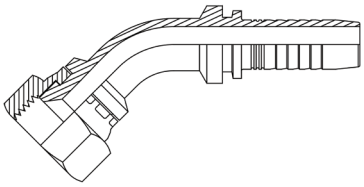
## CJFS — JIC Female Swivel X Crimp Tail Straight



| Part # | JIC F/S | Hose ID |
|---|---|---|
| CJFS-04-04 | 7/16 | 1/4 |
| CJFS-04-04SS* | 7/16 | 1/4 |
| CJFS-04-06 | 7/16 | 3/8 |
| CJFS-05-04 | 1/2 | 1/4 |
| CJFS-06-04 | 9/16 | 1/4 |
| CJFS-06-04SS* | 9/16 | 1/4 |
| CJFS-06-05 | 9/16 | 5/16 |
| CJFS-06-06 | 9/16 | 3/8 |
| CJFS-06-06SS* | 9/16 | 3/8 |
| CJFS-06-08 | 9/16 | 1/2 |
| CJFS-08-06 | 3/4 | 3/8 |
| CJFS-08-06SS* | 3/4 | 3/8 |
| CJFS-08-08 | 3/4 | 1/2 |
| CJFS-08-08SS* | 3/4 | 1/2 |
| CJFS-10-06 | 7/8 | 3/8 |
| CJFS-10-08 | 7/8 | 1/2 |
| CJFS-10-08SS* | 7/8 | 1/2 |
| CJFS-10-10 | 7/8 | 5/8 |
| CJFS-10-12 | 7/8 | 3/4 |
| CJFS-12-08 | 1 1/16 | 1/2 |
| CJFS-12-08SS* | 1 1/16 | 1/2 |
| CJFS-12-10 | 1 1/16 | 5/8 |
| CJFS-12-12 | 1 1/16 | 3/4 |
| CJFS-12-12SS* | 1 1/16 | 3/4 |
| CJFS-12-16 | 1 1/16 | 1 |
| CJFS-14-12 | 1 3/16 | 3/4 |
| CJFS-16-12 | 1 5/16 | 3/4 |
| CJFS-16-16 | 1 5/16 | 1 |
| CJFS-16-16SS* | 1 5/16 | 1 |
| CJFS-20-20 | 1 5/8 | 1 1/4 |
| CJFS-20-20SS* | 1 5/8 | 1 1/4 |
| CJFS-24-24 | 1 7/8 | 1 1/2 |
| CJFS-32-32 | 2 1/2 | 2 |

* SS = Stainless Steel

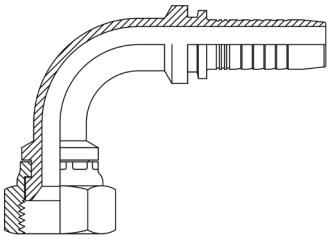
## CJFS45S — JIC Female Swivel X Crimp Tail Swept 45°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| CJFS45S-04-04 | 7/16 | 1/4 |
| CJFS45S-04-04SS* | 7/16 | 1/4 |
| CJFS45S-05-04 | 1/2 | 1/4 |
| CJFS45S-06-04 | 9/16 | 1/4 |
| CJFS45S-06-06 | 9/16 | 3/8 |
| CJFS45S-08-06 | 3/4 | 3/8 |
| CJFS45S-08-08 | 3/4 | 1/2 |
| CJFS45S-10-08 | 7/8 | 1/2 |
| CJFS45S-10-10 | 7/8 | 5/8 |
| CJFS45S-10-12 | 7/8 | 3/4 |
| CJFS45S-12-10 | 1 1/16 | 5/8 |
| CJFS45S-12-12 | 1 1/16 | 3/4 |
| CJFS45S-16-12 | 1 5/16 | 3/4 |
| CJFS45S-16-16 | 1 5/16 | 1 |
| CJFS45S-20-20 | 1 5/8 | 1 1/4 |
| CJFS45S-24-24 | 1 7/8 | 1 1/2 |
| CJFS45S-32-32 | 2 1/2 | 2 |

* SS = Stainless Steel

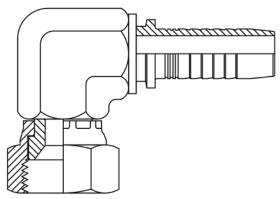
## CJFS90S — JIC Female Swivel X Crimp Tail Swept 90°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| CJFS90S-04-04 | 7/16 | 1/4 |
| CJFS90S-04-04SS* | 7/16 | 1/4 |
| CJFS90S-05-04 | 1/2 | 1/4 |
| CJFS90S-06-04 | 9/16 | 1/4 |
| CJFS90S-06-04SS* | 9/16 | 1/4 |
| CJFS90S-06-06 | 9/16 | 3/8 |
| CJFS90S-06-06SS* | 9/16 | 3/8 |
| CJFS90S-08-06 | 3/4 | 3/8 |
| CJFS90S-08-06SS* | 3/4 | 3/8 |
| CJFS90S-08-08 | 3/4 | 1/2 |
| CJFS90S-08-08SS* | 3/4 | 1/2 |
| CJFS90S-10-08 | 7/8 | 1/2 |
| CJFS90S-10-08SS* | 7/8 | 1/2 |
| CJFS90S-10-10 | 7/8 | 5/8 |
| CJFS90S-10-12 | 7/8 | 3/4 |
| CJFS90S-12-08 | 1 1/16 | 1/2 |
| CJFS90S-12-10 | 1 1/16 | 5/8 |
| CJFS90S-12-12 | 1 1/16 | 3/4 |
| CJFS90S-12-12SS* | 1 1/16 | 3/4 |
| CJFS90S-16-12 | 1 5/16 | 3/4 |
| CJFS90S-16-16 | 1 5/16 | 1 |
| CJFS90S-16-16SS* | 1 5/16 | 1 |
| CJFS90S-20-16 | 1 5/8 | 1 |
| CJFS90S-20-20 | 1 5/8 | 1 1/4 |
| CJFS90S-24-24 | 1 7/8 | 1 1/2 |
| CJFS90S-32-32 | 2 1/2 | 2 |

* SS = Stainless Steel

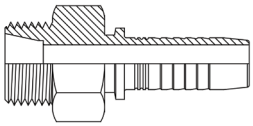
## CJFS90C — JIC Female Swivel X Crimp Tail Compact 90°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| CJFS90C-04-04 | 7/16 | 1/4 |
| CJFS90C-06-04 | 9/16 | 1/4 |
| CJFS90C-06-06 | 9/16 | 3/8 |
| CJFS90C-08-06 | 3/4 | 3/8 |
| CJFS90C-08-08 | 3/4 | 1/2 |
| CJFS90C-10-08 | 7/8 | 1/2 |
| CJFS90C-12-12 | 1 1/16 | 3/4 |
| CJFS90C-16-16 | 1 5/16 | 1 |

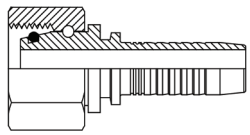
# Metric Two Piece Crimp Tails

## CMLM — Metric Light Male X Crimp Tail Straight



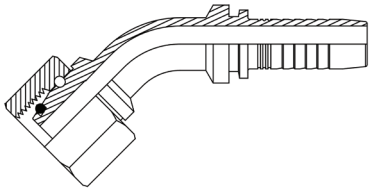
| Part # | Metric Light M | Hose ID |
|---|---|---|
| CMLM-12M-04 | M12 | 1/4 |
| CMLM-14M-04 | M14 | 1/4 |
| CMLM-16M-04 | M16 | 1/4 |
| CMLM-16M-06 | M16 | 3/8 |
| CMLM-18M-06 | M18 | 3/8 |
| CMLM-18M-08 | M18 | 1/2 |
| CMLM-22M-06 | M22 | 3/8 |
| CMLM-22M-08 | M22 | 1/2 |
| CMLM-26M-10 | M26 | 5/8 |
| CMLM-26M-12 | M26 | 3/4 |
| CMLM-30M-12 | M30 | 3/4 |
| CMLM-36M-12 | M36 | 3/4 |
| CMLM-36M-16 | M36 | 1 |
| CMLM-45M-20 | M45 | 1 1/4 |
| CMLM-52M-24 | M52 | 1 1/2 |

## CMLFS — Metric Light Female Swivel X Crimp Tail Straight



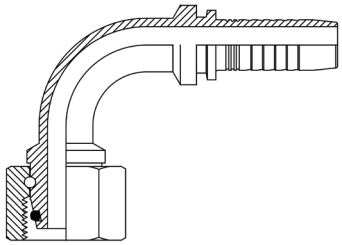
| Part # | Metric Light F/S | Hose ID |
|---|---|---|
| CMLFS-12M-04 | M12 | 1/4 |
| CMLFS-14M-04 | M14 | 1/4 |
| CMLFS-16M-04 | M16 | 1/4 |
| CMLFS-16M-06 | M16 | 3/8 |
| CMLFS-18M-06 | M18 | 3/8 |
| CMLFS-18M-08 | M18 | 1/2 |
| CMLFS-22M-06 | M22 | 3/8 |
| CMLFS-22M-08 | M22 | 1/2 |
| CMLFS-26M-10 | M26 | 5/8 |
| CMLFS-26M-12 | M26 | 3/4 |
| CMLFS-30M-10 | M30 | 5/8 |
| CMLFS-30M-12 | M30 | 3/4 |
| CMLFS-36M-16 | M36 | 1 |

## CMLFS45S — Metric Light Female Swivel X Crimp Tail Swept 45°



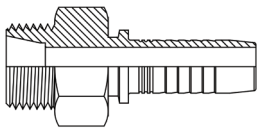
| Part # | Metric Light F/S | Hose ID |
|---|---|---|
| CMLFS45S-18M-06 | M18 | 3/8 |
| CMLFS45S-22M-06 | M22 | 3/8 |
| CMLFS45S-22M-08 | M22 | 1/2 |

## CMLFS90S — Metric Light Female Swivel X Crimp Tail Swept 90°



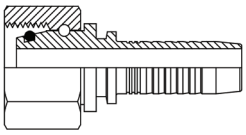
| Part # | Metric Light F/S | Hose ID |
|---|---|---|
| CMLFS90S-12M-04 | M12 | 1/4 |
| CMLFS90S-14M-04 | M14 | 1/4 |
| CMLFS90S-16M-04 | M16 | 1/4 |
| CMLFS90S-16M-06 | M16 | 3/8 |
| CMLFS90S-18M-06 | M18 | 3/8 |
| CMLFS90S-22M-06 | M22 | 3/8 |
| CMLFS90S-22M-08 | M22 | 1/2 |
| CMLFS90S-26M-08 | M26 | 1/2 |
| CMLFS90S-26M-10 | M26 | 5/8 |
| CMLFS90S-26M-12 | M26 | 3/4 |
| CMLFS90S-30M-10 | M30 | 5/8 |
| CMLFS90S-30M-12 | M30 | 3/4 |
| CMLFS90S-36M-12 | M36 | 3/4 |
| CMLFS90S-36M-16 | M36 | 1 |
| CMLFS90S-45M-16 | M45 | 1 |

## CMHM — Metric Heavy Male X Crimp Tail Straight



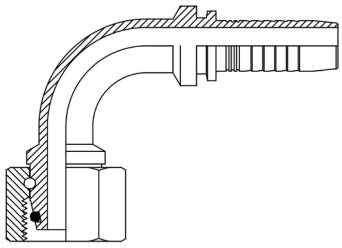
| Part # | Metric Heavy M | Hose ID |
|---|---|---|
| CMHM-14M-04 | M14 | 1/4 |
| CMHM-16M-04 | M16 | 1/4 |
| CMHM-16M-06 | M16 | 3/8 |
| CMHM-18M-06 | M18 | 3/8 |
| CMHM-20M-06 | M20 | 3/8 |
| CMHM-22M-06 | M22 | 3/8 |
| CMHM-22M-08 | M22 | 1/2 |
| CMHM-24M-08 | M24 | 1/2 |
| CMHM-30M-10 | M30 | 5/8 |
| CMHM-30M-12 | M30 | 3/4 |
| CMHM-36M-12 | M36 | 3/4 |
| CMHM-36M-16 | M36 | 1 |
| CMHM-42M-16 | M42 | 1 |

## CMHFS — Metric Heavy Female Swivel X Crimp Tail Straight



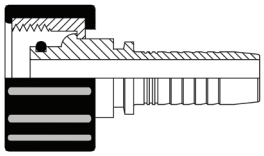
| Part # | Metric Heavy F/S | Hose ID |
|---|---|---|
| CMHFS-14M-04 | M14 | 1/4 |
| CMHFS-16M-04 | M16 | 1/4 |
| CMHFS-18M-04 | M18 | 1/4 |
| CMHFS-18M-06 | M18 | 3/8 |
| CMHFS-20M-06 | M20 | 3/8 |
| CMHFS-20M-08 | M20 | 1/2 |
| CMHFS-22M-06 | M22 | 3/8 |
| CMHFS-22M-08 | M22 | 1/2 |
| CMHFS-24M-08 | M24 | 1/2 |
| CMHFS-30M-10 | M30 | 5/8 |
| CMHFS-30M-12 | M30 | 3/4 |
| CMHFS-36M-12 | M36 | 3/4 |
| CMHFS-36M-16 | M36 | 1 |
| CMHFS-42M-16 | M42 | 1 |

## CMHFS90S — Metric Heavy Female Swivel X Crimp Tail Swept 90°



| Part # | Metric Heavy F/S | Hose ID |
|---|---|---|
| CMHFS90S-14M-04 | M14 | 1/4 |
| CMHFS90S-16M-04 | M16 | 1/4 |
| CMHFS90S-18M-04 | M18 | 1/4 |
| CMHFS90S-18M-06 | M18 | 3/8 |
| CMHFS90S-20M-06 | M20 | 3/8 |
| CMHFS90S-22M-06 | M22 | 3/8 |
| CMHFS90S-24M-08 | M24 | 1/2 |
| CMHFS90S-30M-10 | M30 | 5/8 |
| CMHFS90S-30M-12 | M30 | 3/4 |
| CMHFS90S-36M-12 | M36 | 3/4 |
| CMHFS90S-36M-16 | M36 | 1 |
| CMHFS90S-42M-16 | M42 | 1 |

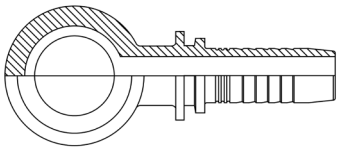
## CKARCHERFS — Metric Karcher W/Plastic Nut Female Swivel X Crimp Tail Straight



| Part # | Metric F/S | Hose ID |
|---|---|---|
| CKARCHERFS-22M-06 | M22 | 3/8 |

# Banjo (Metric) Two Piece Crimp Tails

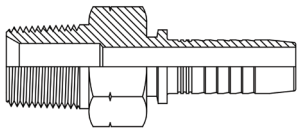
**CMBANJO** | **Metric Banjo X Crimp Tail Straight**



| Part # | Metric | Hose ID |
|---|---|---|
| CBANJO-10M-04 | M10 | 1/4 |
| CBANJO-12M-04 | M12 | 1/4 |
| CBANJO-12M-06 | M12 | 3/8 |
| CBANJO-14M-04 | M14 | 1/4 |
| CBANJO-14M-05 | M14 | 5/16 |
| CBANJO-14M-06 | M14 | 3/8 |
| CBANJO-16M-04 | M16 | 1/4 |
| CBANJO-16M-06 | M16 | 3/8 |
| CBANJO-18M-06 | M18 | 3/8 |
| CBANJO-18M-08 | M18 | 1/2 |
| CBANJO-22M-08 | M22 | 1/2 |
| CBANJO-22M-10 | M22 | 5/8 |
| CBANJO-26M-10 | M26 | 5/8 |
| CBANJO-26M-12 | M26 | 3/4 |
| CBANJO-30M-16 | M30 | 1 |

## NPT Two Piece Crimp Tails

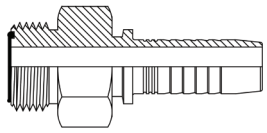
**CNM** | **NPT Male X Crimp Tail Straight**



| Part # | NPT M | Hose ID |
|---|---|---|
| CNM-04-04 | 1/4 | 1/4 |
| CNM-06-04 | 3/8 | 1/4 |
| CNM-06-06 | 3/8 | 3/8 |
| CNM-08-06 | 1/2 | 3/8 |
| CNM-08-08 | 1/2 | 1/2 |
| CNM-12-12 | 3/4 | 3/4 |
| CNM-12-16 | 3/4 | 1 |
| CNM-16-16 | 1 | 1 |
| CNM-20-20 | 1 1/4 | 1 1/4 |
| CNM-24-24 | 1 1/2 | 1 1/2 |
| CNM-32-32 | 2 | 2 |

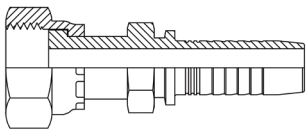
# ORFS Two Piece Crimp Tails

## CORSM — ORFS Male X Crimp Tail Straight



| Part # | ORFS M | Hose ID |
|---|---|---|
| CORSM-04-04 | 9/16 | 1/4 |
| CORSM-06-04 | 11/16 | 1/4 |
| CORSM-06-06 | 11/16 | 3/8 |
| CORSM-08-06 | 13/16 | 3/8 |
| CORSM-08-08 | 13/16 | 1/2 |
| CORSM-10-08 | 1 | 1/2 |
| CORSM-10-10 | 1 | 5/8 |
| CORSM-12-10 | 1 3/16 | 5/8 |
| CORSM-12-12 | 1 3/16 | 3/4 |
| CORSM-16-12 | 1 7/16 | 3/4 |
| CORSM-16-16 | 1 7 /16 | 1 |
| CORSM-20-20 | 1 11/16 | 1 1/4 |
| CORSM-24-24 | 2 | 1 1/2 |

## CORSFS — ORFS Female Swivel X Crimp Tail Straight



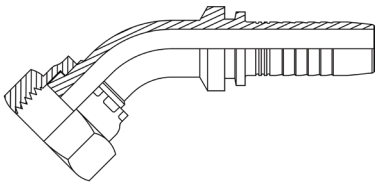
| Part # | ORFS F/S | Hose ID |
|---|---|---|
| CORSFS-04-04 | 9/16 | 1/4 |
| CORSFS-04-06 | 9/16 | 3/8 |
| CORSFS-06-04 | 11/16 | 1/4 |
| CORSFS-06-06 | 11/16 | 3/8 |
| CORSFS-06-08 | 11/16 | 1/2 |
| CORSFS-08-06 | 13/16 | 3/8 |
| CORSFS-08-08 | 13/16 | 1/2 |
| CORSFS-10-08 | 1 | 1/2 |
| CORSFS-10-10 | 1 | 5/8 |
| CORSFS-10-12 | 1 | 3/4 |
| CORSFS-12-10 | 1 3/16 | 5/8 |
| CORSFS-12-12 | 1 3/16 | 3/4 |
| CORSFS-16-12 | 1 7/16 | 3/4 |
| CORSFS-16-16 | 1 7/16 | 1 |
| CORSFS-16-16SS* | 1 7/16 | 1 |
| CORSFS-20-20 | 1 11/16 | 1 1/4 |
| CORSFS-24-24 | 1 11/16 | 1 1/2 |

* SS = Stainless Steel

# Hose Fittings



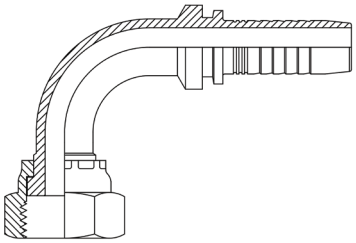
## CORSFS45S — ORFS Female Swivel X Crimp Tail Swept 45°



| Part # | ORFS F/S | Hose ID |
|---|---|---|
| CORSFS45S-04-04 | 9/16 | 1/4 |
| CORSFS45S-06-06 | 11/16 | 3/8 |
| CORSFS45S-08-06 | 13/16 | 3/8 |
| CORSFS45S-08-08 | 13/16 | 1/2 |
| CORSFS45S-10-08 | 1 | 1/2 |
| CORSFS45S-10-10 | 1 | 5/8 |
| CORSFS45S-12-08 | 1 3/16 | 1/2 |
| CORSFS45S-12-12 | 1 3/16 | 3/4 |
| CORSFS45S-16-16 | 1 7/16 | 1 |
| CORSFS45S-16-16SS* | 1 7/16 | 1 |

* SS = Stainless Steel

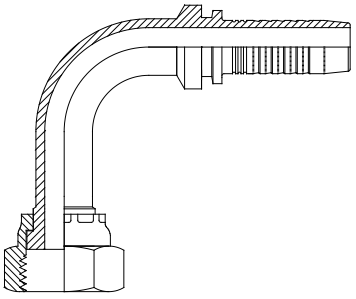
## CORSFS90S — ORFS Female Swivel X Crimp Tail Swept 90°



| Part # | ORFS F/S | Hose ID |
|---|---|---|
| CORSFS90S-04-04 | 9/16 | 1/4 |
| CORSFS90S-06-04 | 11/16 | 1/4 |
| CORSFS90S-06-06 | 11/16 | 3/8 |
| CORSFS90S-08-06 | 13/16 | 3/8 |
| CORSFS90S-08-08 | 13/16 | 1/2 |
| CORSFS90S-10-08 | 1 | 1/2 |
| CORSFS90S-10-10 | 1 | 5/8 |
| CORSFS90S-10-12 | 1 | 3/4 |
| CORSFS90S-12-08 | 1 3/16 | 1/2 |
| CORSFS90S-12-10 | 1 3/16 | 5/8 |
| CORSFS90S-12-12 | 1 3/16 | 3/4 |
| CORSFS90S-16-16 | 1 7/16 | 1 |
| CORSFS90S-16-16SS* | 1 7/16 | 1 |
| CORSFS90S-20-20 | 1 11/16 | 1 1/4 |
| CORSFS90S-24-24 | 2 | 1 1/2 |

* SS = Stainless Steel

## CORSFS90SL — ORFS Female Swivel X Crimp Tail Swept 90° (Long Drop)



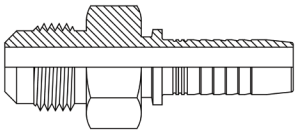
| Part # | ORFS F/S | Hose ID |
|---|---|---|
| CORSFS90SL-04-04 | 9/16 | 1/4 |
| CORSFS90SL-10-10 | 1 | 5/8 |



(08) 9451 2204

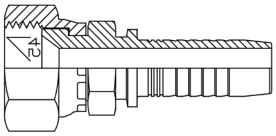
# SAE Two Piece Crimp Tails

## CSM — SAE 45° Flare Male X Crimp Tail Straight



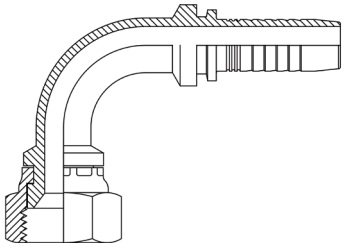
| Part # | SAE M | Hose ID |
|---|---|---|
| CSM-06-06 | 5/8 | 3/8 |

## CSFS — SAE 45° Flare Female Swivel X Crimp Tail Straight



| Part # | SAE F/S | Hose ID |
|---|---|---|
| CSFS-06-06 | 5/8 | 3/8 |
| CSFS-12-10 | 1 1/16 | 5/8 |
| CSFS-12-12 | 1 1/16 | 3/4 |

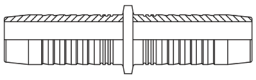
## CSFS90S — SAE 45° Flare Female Swivel X Crimp Tail Swept 90°



| Part # | SAE F/S | Hose ID |
|---|---|---|
| CSFS90S-06-06 | 5/8 | 3/8 |

# Hose Joiners Two Piece Crimp Tails

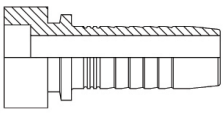
**CHXH** | **Joiner Crimp Tail X Crimp Tail Straight**



| Part # | Hose ID | Hose ID |
|---|---|---|
| CHXH-04-04 | 1/4 | 1/4 |
| CHXH-06-06 | 3/8 | 3/8 |
| CHXH-08-08 | 1/2 | 1/2 |
| CHXH-10-10 | 5/8 | 5/8 |
| CHXH-12-12 | 3/4 | 3/4 |
| CHXH-16-16 | 1 | 1 |

# Tube Weld Two Piece Crimp Tails

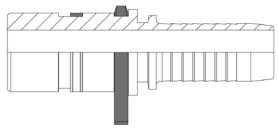
**CLS** | **Tube Weld X Crimp Tail Straight**



| Part # | Tube Weld | Hose ID |
|---|---|---|
| CLS-04-04 | 1/4 | 1/4 |
| CLS-06-06 | 3/8 | 3/8 |
| CLS-08-08 | 1/2 | 1/2 |
| CLS-10-10 | 5/8 | 5/8 |
| CLS-12-12 | 3/4 | 3/4 |
| CLS-16-16 | 1 | 1 |
| CLS-20-20 | 1 1/4 | 1 1/4 |

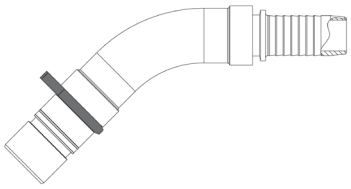
## WEO Two Piece Crimp Tails

### WEOHT — WEO Male X Crimp Tail Straight



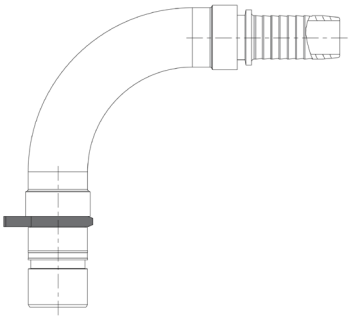
| Part # | WEO M | Hose ID |
|---|---|---|
| 14-710-0404 | 1/4 | 1/4 |
| 14-710-0606 | 3/8 | 3/8 |
| 14-710-0806 | 1/2 | 3/8 |
| 14-710-0808 | 1/2 | 1/2 |
| 14-710-1212 | 3/4 | 3/4 |

### WEOHT45 — WEO Male X Crimp Tail Swept 45°



| Part # | WEO M | Hose ID |
|---|---|---|
| 14-712-0404 | 1/4 | 1/4 |
| 14-712-0606 | 3/8 | 3/8 |
| 14-712-0808 | 1/2 | 1/2 |

### WEOHT90 — WEO Male X Crimp Tail Swept 90°



| Part # | WEO M | Hose ID |
|---|---|---|
| 14-714-0404 | 1/4 | 1/4 |
| 14-714-0604 | 3/8 | 1/4 |
| 14-714-0606 | 3/8 | 3/8 |
| 14-714-0808 | 1/2 | 1/2 |

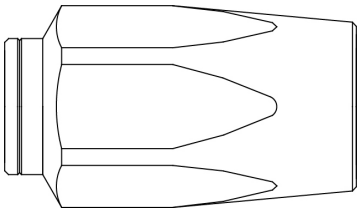
# TRUFLOW Field Attachable

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JIC Field Attachable Tails . . . . . B112
ORFS Field Attachable Tails . . . . . B114

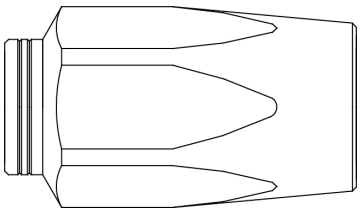
## Field Attachable Ferrules

### FAN1 — Field Attachable Ferrule Suit 1 Wire



| Part # | Hose ID |
|---|---|
| FAN1-04 | 1/4 |
| FAN1-06 | 3/8 |
| FAN1-08 | 1/2 |
| FAN1-12 | 3/4 |
| FAN1-16 | 1 |

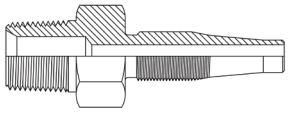
### FAN2 — Field Attachable Ferrule Suit 2 Wire



| Part # | Hose ID |
|---|---|
| FAN2-04 | 1/4 |
| FAN2-06 | 3/8 |
| FAN2-08 | 1/2 |
| FAN2-12 | 3/4 |
| FAN2-16 | 1 |

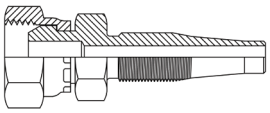
# BSP Field Attachable Tails

## FABM — BSPT Male X Field Attachable Straight



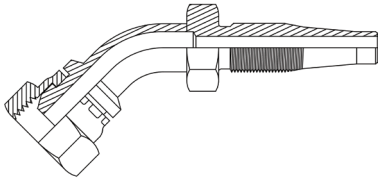
| Part # | BSPT M | Hose ID |
|---|---|---|
| FABM-04-04 | 1/4 | 1/4 |
| FABM-06-04 | 3/8 | 1/4 |
| FABM-06-06 | 3/8 | 3/8 |
| FABM-08-06 | 1/2 | 3/8 |
| FABM-08-08 | 1/2 | 1/2 |
| FABM-12-12 | 3/4 | 3/4 |
| FABM-16-16 | 1 | 1 |

## FABFS — BSPP Female Swivel X Field Attachable Straight



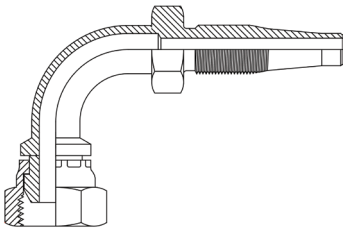
| Part # | BSPP F/S | Hose ID |
|---|---|---|
| FABFS-04-04 | 1/4 | 1/4 |
| FABFS-06-04 | 3/8 | 1/4 |
| FABFS-06-06 | 3/8 | 3/8 |
| FABFS-08-06 | 1/2 | 3/8 |
| FABFS-08-08 | 1/2 | 1/2 |
| FABFS-12-12 | 3/4 | 3/4 |
| FABFS-16-16 | 1 | 1 |

## FABFS45S — BSPP Female Swivel X Field Attachable Swept 45°



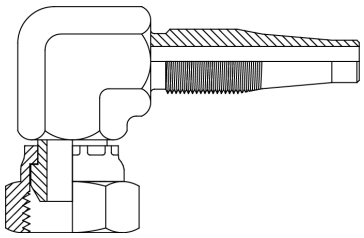
| Part # | BSPP F/S | Hose ID |
|---|---|---|
| FABFS45S-04-04 | 1/4 | 1/4 |
| FABFS45S-06-06 | 3/8 | 3/8 |
| FABFS45S-08-08 | 1/2 | 1/2 |

## FABFS90S — BSPP Female Swivel X Field Attachable Swept 90°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| FABFS90S-04-04 | 1/4 | 1/4 |
| FABFS90S-06-06 | 3/8 | 3/8 |
| FABFS90S-08-08 | 1/2 | 1/2 |
| FABFS90S-12-12 | 3/4 | 3/4 |
| FABFS90S-16-16 | 1 | 1 |

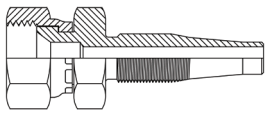
## FABFS90C — BSPP Female Swivel X Field Attachable Compact 90°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| FABFS90C-04-04 | 1/4 | 1/4 |
| FABFS90C-06-06 | 3/8 | 3/8 |
| FABFS90C-08-08 | 1/2 | 1/2 |
| FABFS90C-12-12 | 3/4 | 3/4 |
| FABFS90C-16-16 | 1 | 1 |

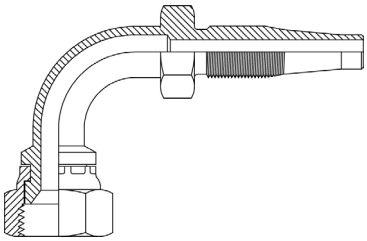
# JIS (BSPP) Field Attachable Tails

## FAJISFS — JIS (BSPP) Female Swivel X Field Attachable Straight



| Part # | JIS (BSPP) F/S | Hose ID |
|---|---|---|
| FAJISFS-06-04 | 3/8 | 1/4 |
| FAJISFS-06-06 | 3/8 | 3/8 |

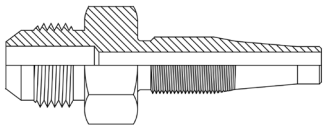
## FAJISFS90S — JIS (BSPP) Female Swivel X Field Attachable Swept 90°



| Part # | JIS (BSPP) F/S | Hose ID |
|---|---|---|
| FAJISFS90S-06-04 | 3/8 | 1/4 |
| FAJISFS90S-06-06 | 3/8 | 3/8 |

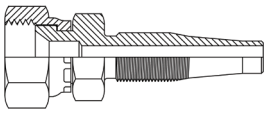
## JIC Field Attachable Tails

### FAJM — JIC Male X Field Attachable Straight



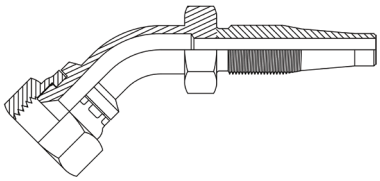
| Part # | JIC M | Hose ID |
|---|---|---|
| FAJM-04-04 | 7/16 | 1/4 |
| FAJM-06-04 | 9/16 | 1/4 |
| FAJM-06-06 | 9/16 | 3/8 |
| FAJM-08-06 | 3/4 | 3/8 |
| FAJM-08-08 | 3/4 | 1/2 |
| FAJM-10-08 | 7/8 | 1/2 |
| FAJM-12-12 | 1 1/16 | 3/4 |

### FAJFS — JIC Female Swivel X Field Attachable Straight



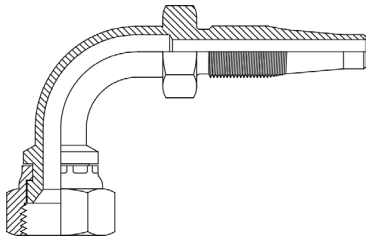
| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAJFS-04-04 | 7/16 | 1/4 |
| FAJFS-06-04 | 9/16 | 1/4 |
| FAJFS-06-06 | 9/16 | 3/8 |
| FAJFS-08-06 | 3/4 | 3/8 |
| FAJFS-08-08 | 3/4 | 1/2 |
| FAJFS-10-08 | 7/8 | 1/2 |
| FAJFS-12-12 | 1 1/16 | 3/4 |
| FAJFS-16-16 | 1 5/16 | 1 |

### FAJFS45S — JIC Female Swivel X Field Attachable Swept 45°



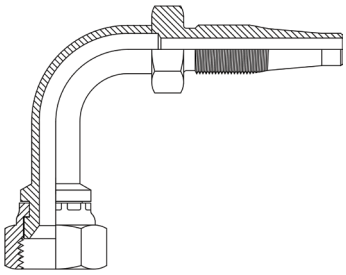
| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAJFS45S-04-04 | 7/16 | 1/4 |
| FAJFS45S-06-06 | 9/16 | 3/8 |

## FAJFS90S — JIC Female Swivel X Field Attachable Swept 90°



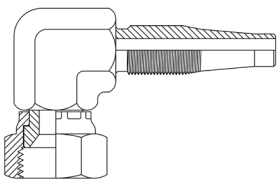
| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAJFS90S-04-04 | 7/16 | 1/4 |
| FAJFS90S-06-04 | 9/16 | 1/4 |
| FAJFS90S-06-06 | 9/16 | 3/8 |
| FAJFS90S-08-06 | 3/4 | 3/8 |
| FAJFS90S-08-08 | 3/4 | 1/2 |
| FAJFS90S-10-08 | 7/8 | 1/2 |
| FAJFS90S-10-10 | 7/8 | 5/8 |
| FAJFS90S-12-12 | 1 1/16 | 3/4 |
| FAJFS90S-16-16 | 1 5/16 | 1 |

## FAJFS90SL — JIC Female Swivel X Field Attachable Swept 90° Long Drop



| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAJFS90SL-06-04 | 9/16 | 1/4 |
| FAJFS90SL-06-06 | 9/16 | 3/8 |
| FAJFS90SL-08-06 | 3/4 | 3/8 |
| FAJFS90SL-08-08 | 3/4 | 1/2 |

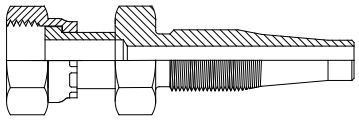
## FAJFS90C — JIC Female Swivel X Field Attachable Compact 90°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAJFS90C-04-04 | 7/16 | 1/4 |
| FAJFS90C-06-04 | 9/16 | 1/4 |
| FAJFS90C-06-06 | 9/16 | 3/8 |
| FAJFS90C-08-06 | 3/4 | 3/8 |
| FAJFS90C-08-08 | 3/4 | 1/2 |
| FAJFS90C-10-08 | 7/8 | 1/2 |
| FAJFS90C-12-12 | 1 1/16 | 3/4 |
| FAJFS90C-16-16 | 1 5/16 | 1 |

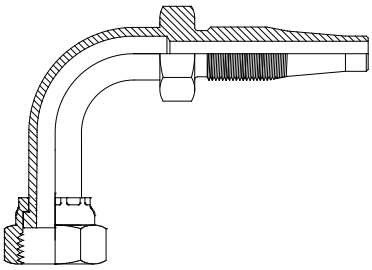
## ORFS Field Attachable Tails

### FAORSFS — ORFS Male X Field Attachable Straight



| Part # | ORFS F/S | Hose ID |
|---|---|---|
| FAORSFS-04-04 | 9/16 | 1/4 |
| FAORSFS-06-06 | 11/16 | 3/8 |
| FAORSFS-08-08 | 13/16 | 1/2 |
| FAORSFS-12-12 | 1 3/16 | 3/4 |

### FAORSFS90S — ORFS Female Swivel X Field Attachable Swept 90°



| Part # | ORFS F/S | Hose ID |
|---|---|---|
| FAORSFS90S-04-04 | 9/16 | 1/4 |
| FAORSFS90S-06-06 | 11/16 | 3/8 |
| FAORSFS90S-08-08 | 13/16 | 1/2 |

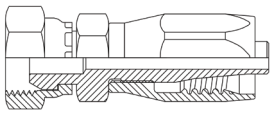
# TRUFLOW
# R5 Field Attachable

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BSP R5 Field Attachable Tails . . . . . B116
JIC R5 Field Attachable Tails. . . . . B117
SAE R5 Field Attachable Tails . . . . . B118

# BSP R5 Field Attachable Tails

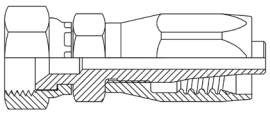
**FAR5BFS** | **BSPP Female Swivel X R5 Field Attachable Straight**



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| FAR5BFS-04-04 | 1/4 | 3/16 |
| FAR5BFS-06-06 | 3/8 | 5/16 |
| FAR5BFS-08-08 | 1/2 | 13/32 |
| FAR5BFS-12-12 | 3/4 | 5/8 |
| FAR5BFS-16-16 | 1 | 7/8 |

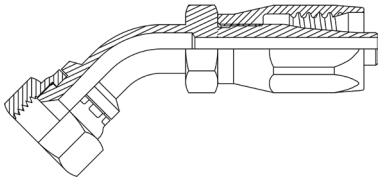
# JIC R5 Field Attachable Tails

## FAR5JFS — JIC Female Swivel X R5 Field Attachable Straight



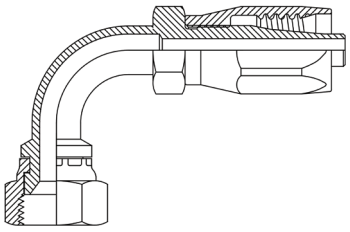
| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAR5JFS-04-04 | 7/16 | 3/16 |
| FAR5JFS-05-05 | 1/2 | 1/4 |
| FAR5JFS-06-05 | 9/16 | 1/4 |
| FAR5JFS-06-06 | 9/16 | 5/16 |
| FAR5JFS-06-08 | 9/16 | 13/32 |
| FAR5JFS-08-06 | 3/4 | 5/16 |
| FAR5JFS-08-08 | 3/4 | 13/32 |
| FAR5JFS-08-10 | 3/4 | 1/2 |
| FAR5JFS-10-10 | 7/8 | 1/2 |
| FAR5JFS-12-10 | 1 1/16 | 1/2 |
| FAR5JFS-12-12 | 1 1/16 | 5/8 |
| FAR5JFS-16-16 | 1 5/16 | 7/8 |
| FAR5JFS-20-20 | 1 5/8 | 1 1/8 |

## FAR5JFS45S — JIC Female Swivel X R5 Field Attachable Swept 45°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAR5JFS45S-04-04 | 7/16 | 3/16 |
| FAR5JFS45S-06-06 | 9/16 | 5/16 |
| FAR5JFS45S-08-08 | 3/4 | 13/32 |
| FAR5JFS45S-10-10 | 7/8 | 1/2 |
| FAR5JFS45S-12-12 | 1 1/16 | 5/8 |
| FAR5JFS45S-16-16 | 1 5/16 | 7/8 |

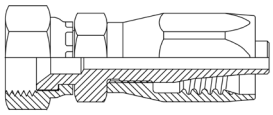
## FAR5JFS90S — JIC Female Swivel X R5 Field Attachable Swept 90°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| FAR5JFS90S-04-04 | 7/16 | 3/16 |
| FAR5JFS90S-05-05 | 1/2 | 1/4 |
| FAR5JFS90S-06-06 | 9/16 | 5/16 |
| FAR5JFS90S-08-08 | 3/4 | 13/32 |
| FAR5JFS90S-08-10 | 3/4 | 1/2 |
| FAR5JFS90S-10-10 | 7/8 | 1/2 |
| FAR5JFS90S-12-12 | 1 1/16 | 5/8 |
| FAR5JFS90S-16-16 | 1 5/16 | 7/8 |
| FAR5JFS90S-20-20 | 1 5/8 | 1 1/8 |

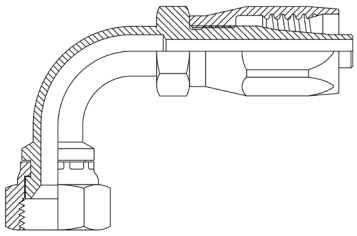
## SAE R5 Field Attachable Tails

**FAR5SFS** — **SAE 45° Flare Female Swivel X R5 Field Attachable Straight**



| Part # | SAE F/S | Hose ID |
|---|---|---|
| FAR5SFS-06-06 | 5/8 | 5/16 |

**FAR5SFS90S** — **SAE 45° Flare Female Swivel X R5 Field Attachable Swept 90°**



| Part # | SAE F/S | Hose ID |
|---|---|---|
| FAR5SFS90S-06-06 | 5/8 | 5/16 |

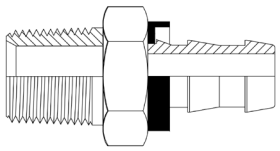
# TRUFLOW Push Lock Tails

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BSP Push Lock Tails . . . . . B120
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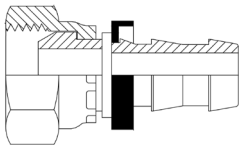
## BSP Push Lock Tails

### PBM — BSPT Male X Push Lock Tail Straight



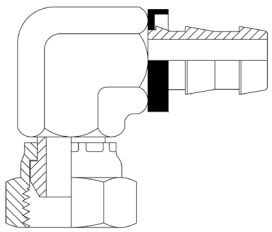
| Part # | BSPT M | Hose ID |
|---|---|---|
| PBM-02-04 | 1/8 | 1/4 |
| PBM-04-04 | 1/4 | 1/4 |
| PBM-04-05 | 1/4 | 5/16 |
| PBM-04-06 | 1/4 | 3/8 |
| PBM-06-04 | 3/8 | 1/4 |
| PBM-06-06 | 3/8 | 3/8 |
| PBM-06-08 | 3/8 | 1/2 |
| PBM-08-06 | 1/2 | 3/8 |
| PBM-08-08 | 1/2 | 1/2 |
| PBM-12-12 | 3/4 | 3/4 |
| PBM-16-16 | 1 | 1 |

### PBFS — BSPP Female Swivel X Push Lock Tail Straight



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| PBFS-02-04 | 1/8 | 1/4 |
| PBFS-04-04 | 1/4 | 1/4 |
| PBFS-06-06 | 3/8 | 3/8 |
| PBFS-06-08 | 3/8 | 1/2 |
| PBFS-08-06 | 1/2 | 3/8 |
| PBFS-08-08 | 1/2 | 1/2 |
| PBFS-08-10 | 1/2 | 5/8 |
| PBFS-12-12 | 3/4 | 3/4 |
| PBFS-16-16 | 1 | 1 |

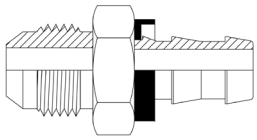
### PBFS90C — BSPP Female Swivel X Push Lock Tail Compact 90°



| Part # | BSPP F/S | Hose ID |
|---|---|---|
| PBFS90C-04-04 | 1/4 | 1/4 |
| PBFS90C-06-06 | 3/8 | 3/8 |
| PBFS90C-08-08 | 1/2 | 1/2 |

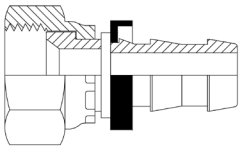
# JIC Push Lock Tails

## PJM — JIC Male X Push Lock Tail Straight



| Part # | JIC M | Hose ID |
|---|---|---|
| PJM-06-06 | 9/16 | 3/8 |
| PJM-08-08 | 3/4 | 1/2 |
| PJM-10-10 | 7/8 | 5/8 |

## PJFS — JIC Female Swivel X Push Lock Tail Straight



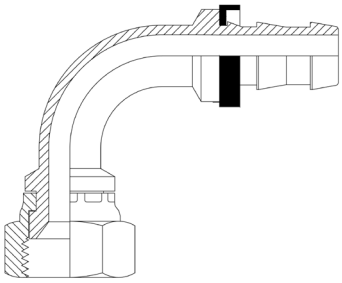
| Part # | JIC F/S | Hose ID |
|---|---|---|
| PJFS-04-04 | 7/16 | 1/4 |
| PJFS-06-04 | 9/16 | 1/4 |
| PJFS-06-05 | 9/16 | 5/16 |
| PJFS-06-06 | 9/16 | 3/8 |
| PJFS-08-06 | 3/4 | 3/8 |
| PJFS-08-08 | 3/4 | 1/2 |
| PJFS-10-08 | 7/8 | 1/2 |
| PJFS-10-10 | 7/8 | 5/8 |
| PJFS-12-12 | 1 1/16 | 3/4 |
| PJFS-12-12B* | 1 1/16 | 3/4 |
| PJFS-16-16 | 1 5/16 | 1 |

*B = Brass

# Hose Fittings

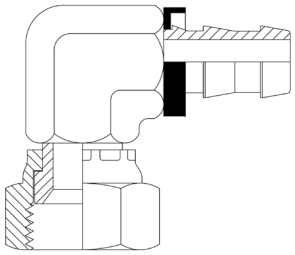


## PJFS90S — JIC Female Swivel X Push Lock Tail Swept 90°



| Part # | JIC F/S | Hose ID |
|---|---|---|
| PJFS90S-04-04 | 7/16 | 1/4 |
| PJFS90S-06-06 | 9/16 | 3/8 |
| PJFS90S-08-08 | 3/4 | 1/2 |
| PJFS90S-12-12 | 1 1/16 | 3/4 |

## PJFS90C — JIC Female Swivel X Push Lock Tail Compact 90°

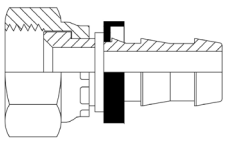


| Part # | JIC F/S | Hose ID |
|---|---|---|
| PJFS90C-04-04 | 7/16 | 1/4 |
| PJFS90C-06-04 | 9/16 | 1/4 |
| PJFS90C-06-06 | 9/16 | 3/8 |
| PJFS90C-08-08 | 3/4 | 1/2 |
| PJFS90C-10-08 | 7/8 | 1/2 |
| PJFS90C-10-10 | 7/8 | 5/8 |
| PJFS90C-12-12 | 1 1/16 | 3/4 |


(08) 9451 2204

# SAE Push Lock Tails

**PSFS** | **SAE 45° Female Swivel X Push Lock Tail Straight**



| Part # | SAE F/S | Hose ID |
|---|---|---|
| PSFS-06-06 | 5/8 | 3/8 |

# Hose Fittings

A Hydraulic Hose
B Hose Fittings
C Adaptors
D Quick Release Couplings
E Diagnostics
F Valves
G Grease
H Accessories



(08) 9451 2204

# TRUFLOW Suction Tails

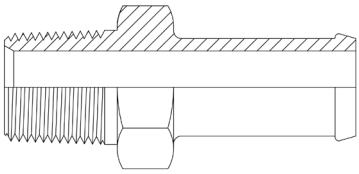
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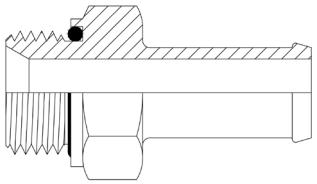
## BSP Suction Tails

**SBM** — **BSPT Male X Suction Tail Straight**



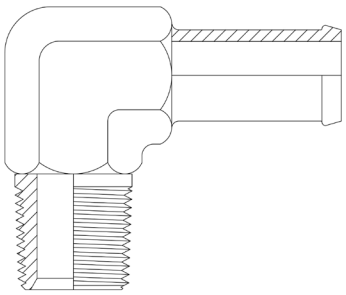
| Part # | BSPT M | Hose ID |
|---|---|---|
| SBM-08-10 | 1/2 | 5/8 |
| SBM-08-12 | 1/2 | 3/4 |
| SBM-12-12 | 3/4 | 3/4 |
| SBM-12-16 | 3/4 | 1 |
| SBM-12-20 | 3/4 | 1 1/4 |
| SBM-16-12 | 1 | 3/4 |
| SBM-16-16 | 1 | 1 |
| SBM-16-20 | 1 | 1 1/4 |
| SBM-16-24 | 1 | 1 1/2 |
| SBM-16-32 | 1 | 2 |
| SBM-20-16 | 1 1/4 | 1 |
| SBM-20-20 | 1 1/4 | 1 1/4 |
| SBM-20-24 | 1 1/4 | 1 1/2 |
| SBM-24-20 | 1 1/2 | 1 1/4 |
| SBM-24-24 | 1 1/2 | 1 1/2 |
| SBM-24-32 | 1 1/2 | 2 |
| SBM-32-24 | 2 | 1 1/2 |
| SBM-32-32 | 2 | 2 |

**SBPM** — **BSPP Male X Suction Tail Straight**



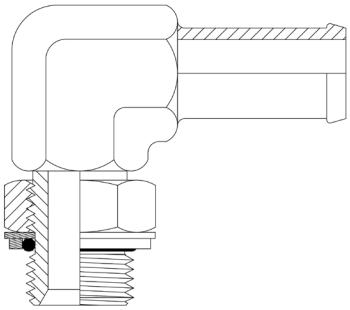
| Part # | BSPP M | Hose ID |
|---|---|---|
| SBPM-12-12 | 3/4 | 3/4 |
| SBPM-12-16 | 3/4 | 1 |
| SBPM-12-20 | 3/4 | 1 1/4 |
| SBPM-16-16 | 1 | 1 |
| SBPM-16-20 | 1 | 1 1/4 |
| SBPM-16-24 | 1 | 1 1/2 |
| SBPM-20-12 | 1 1/4 | 3/4 |
| SBPM-20-16 | 1 1/4 | 1 |
| SBPM-20-20 | 1 1/4 | 1 1/4 |
| SBPM-20-24 | 1 1/4 | 1 1/2 |
| SBPM-24-16 | 1 1/2 | 1 |
| SBPM-24-20 | 1 1/2 | 1 1/4 |
| SBPM-24-24 | 1 1/2 | 1 1/2 |
| SBPM-24-32 | 1 1/2 | 2 |

## SBM9C — BSPT Male X Suction Tail Compact 90°



| Part # | BSPT M | Hose ID |
|---|---|---|
| SBM9C-12-12 | 3/4 | 3/4 |
| SBM9C-12-16 | 3/4 | 1 |
| SBM9C-12-20 | 3/4 | 1 1/4 |
| SBM9C-16-12 | 1 | 3/4 |
| SBM9C-16-16 | 1 | 1 |
| SBM9C-16-20 | 1 | 1 1/4 |
| SBM9C-16-24 | 1 | 1 1/2 |
| SBM9C-20-16 | 1 1/4 | 1 |
| SBM9C-20-20 | 1 1/4 | 1 1/4 |
| SBM9C-20-24 | 1 1/4 | 1 1/2 |
| SBM9C-24-20 | 1 1/2 | 1 1/4 |
| SBM9C-24-24 | 1 1/2 | 1 1/2 |
| SBM9C-32-32 | 2 | 2 |

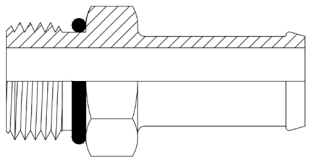
## SBPM9C — BSPP Male X Suction Tail Compact 90°



| Part # | BSPP M | Hose ID |
|---|---|---|
| SBPM9C-08-12 | 1/2 | 3/4 |
| SBPM9C-12-12 | 3/4 | 3/4 |
| SBPM9C-12-16 | 3/4 | 1 |
| SBPM9C-12-20 | 3/4 | 1 1/4 |
| SBPM9C-16-16 | 1 | 1 |
| SBPM9C-16-20 | 1 | 1 1/4 |
| SBPM9C-16-24 | 1 | 1 1/2 |
| SBPM9C-20-16 | 1 1/4 | 1 |
| SBPM9C-20-20 | 1 1/4 | 1 1/4 |
| SBPM9C-20-24 | 1 1/4 | 1 1/2 |
| SBPM9C-24-20 | 1 1/2 | 1 1/4 |
| SBPM9C-24-24 | 1 1/2 | 1 1/2 |

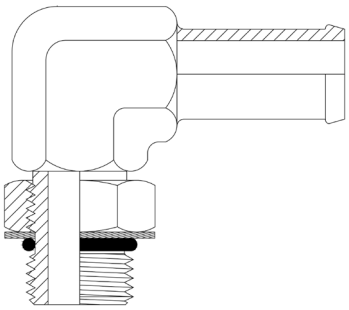
## UNO Suction Tails

### SUM — UNO Male X Suction Tail Straight



| Part # | UNO M | Hose ID |
|---|---|---|
| SUM-10-12 | 7/8 | 3/4 |
| SUM-12-12 | 1 1/16 | 3/4 |
| SUM-12-16 | 1 1/16 | 1 |
| SUM-12-20 | 1 1/16 | 1 1/4 |
| SUM-16-16 | 1 5/16 | 1 |
| SUM-16-20 | 1 5/16 | 1 1/4 |
| SUM-20-20 | 1 5/8 | 1 1/4 |
| SUM-20-24 | 1 5/8 | 1 1/2 |
| SUM-24-20 | 1 7/8 | 1 1/4 |
| SUM-24-24 | 1 7/8 | 1 1/2 |

### SUM9C — UNO Male X Suction Tail Compact 90°



| Part # | UNO M | Hose ID |
|---|---|---|
| SUM9C-12-12 | 1 1/16 | 3/4 |
| SUM9C-12-16 | 1 1/16 | 1 |
| SUM9C-12-20 | 1 1/16 | 1 1/4 |
| SUM9C-16-12 | 1 5/16 | 3/4 |
| SUM9C-16-16 | 1 5/16 | 1 |
| SUM9C-16-20 | 1 5/16 | 1 1/4 |
| SUM9C-16-24 | 1 5/16 | 1 1/2 |
| SUM9C-20-20 | 1 5/8 | 1 1/4 |
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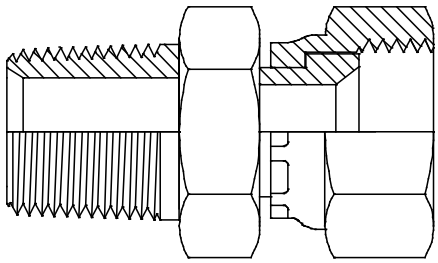
# C - Adaptors

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45° Adaptors. . . . . C81
90° Adaptors. . . . . C88
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# Adaptors





| | | B | J | 1 | M | FS | - | 08 | - | 08 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 2 | 3 | 4 | 4 | | 5 | | 5 | 6 | |

## 1 Prefix

| | |
|---|---|
| SWJ- | Swivel Joint |
| G | Grease Adaptor |

*Omit if not applicable

## 2 Thread Type

| | |
|---|---|
| B | BSPT |
| BP | BSPP |
| BPG | BSPP Gauge Adaptor |
| J | JIC |
| JIS | JIS (BSPP) |
| K | Komatsu (JIS Metric) |
| MH | Metric Heavy (S) |
| ML | Metric Light (L) |
| MS | Metric Stud |
| N | NPT |
| ORS | ORFS |
| S | SAE |
| SINV | SAE Inverted Flare |
| SF61 | SAE Flange Code 61 |
| SF62 | SAE Flange Code 62 |
| U | UNO |
| UP | UNO (with positional nut) |

## 3 Orientation

| | |
|---|---|
| 1 | Straight |
| 10 | Straight Bulkhead |
| 3 | Tee |
| 30 | Tee Bulkhead |
| 4 | 45° |
| 40 | 45° Bulkhead |
| 9 | 90° Compact |
| 9S | 90° Swept |
| 9SL | 90° Swept Long Drop |
| 90 | 90° Bulkhead |
| X | Cross |

## 4 Thread Configuration

| | |
|---|---|
| B | Reducing Bush |
| C | Cap |
| F | Fixed Female |
| FS | Female Swivel |
| L | Leg |
| M | Male |
| MS | Male Swivel |
| P | Plug |
| R | Run |

## 5 Thread Sizes Imperial

| Dash Size | BSP / NPT / JIS (BSPP) | JIC / UNO | ORFS | SAE (45) | SAE Inverted Flare | FLANGE |
|---|---|---|---|---|---|---|
| 02 | 1/8 | 5/16 | | | | |
| 03 | | 3/8 | | | 3/8 | |
| 04 | 1/4 | 7/16 | 9/16 | 7/16 | 7/16 | |
| 05 | | 1/2 | | 1/2 | 1/2 | |
| 06 | 3/8 | 9/16 | 11/16 | 5/8 | 5/8 | |
| 08 | 1/2 | 3/4 | 13/16 | 3/4 | 3/4 | 1/2 |
| 10 | 5/8 | 7/8 | 1 | 7/8 | 7/8 | 5/8 |
| 12 | 3/4 | 1 1/16 | 1 3/16 | 1 1/16 | | 3/4 |
| 14 | | 1 3/16 | | | | |
| 16 | 1 | 1 5/16 | 1 7/16 | | | 1 |
| 20 | 1 1/4 | 1 5/8 | 1 11/16 | | | 1 1/4 |
| 24 | 1 1/2 | 1 7/8 | 2 | | | 1 1/2 |
| 32 | 2 | 2 1/2 | | | | 2 |
| 40 | | | | | | 2 1/2 |
| 48 | | | | | | 3 |
| 56 | | | | | | 3 1/2 |



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## Metric

| Dash | Light | Heavy | Stud | Komatsu JIS |
|---|---|---|---|---|
| **10M** | M10X1.0 (6LL) | | M10X1.0 | |
| **10X1.25M** | | | M10X1.25 | |
| **10X(1.5)M** | | | M10X1.5 | |
| **12M** | M12X1.5 (12L) | | | M12X1.5 |
| **14M** | M14X1.5 (8L) | M14X1.5 (6S) | M14X1.5 | M14X1.5 |
| **16M** | M16X1.5 (10L) | M16X1.5 (8S) | M16X1.5 | M16X1.5 |
| **18M** | M18X1.5 (12L) | M18X1.5 (10S) | M18X1.5 | M18X1.5 |
| **20M** | | M20X1.5 (12S) | M20X1.5 | M20X1.5 |
| **22M** | M22X1.5 (15L) | M22X1.5 (14S) | M22X1.5 | M22X1.5 |
| **24M** | | M24X1.5 (16S) | | M24X1.5 |
| **26M** | M26X1.5 (18L) | | | |
| **27X1.5M** | | | M27X1.5 | |
| **27X2.0M** | | | M27X2 | |
| **30M** | M30X2 (22L) | M30X2 (20S) | | M30X1.5 |
| **30X1.5M** | | | M30X1.5 | |
| **30X2.0M** | | | M30X2 | |
| **33X1.5M** | | | | M33X1.5 |
| **33(X2.0)M** | | | M33X2 | |
| **36M** | M36X2 (28L) | M36X2 (25S) | | M36X1.5 |
| **38X1.5M** | | | M38X1.5 | |
| **38X(2.0)M** | | | M38X2 | |
| **42M** | | M42X2 (30S) | M42X2 | M42X1.5 |
| **45M** | M45X2 (35L) | | | |
| **48M** | | | M48X2 | |
| **52M** | M52X2 (42L) | M52X2 (38S) | | |

**6 Material**

SS Stainless Steel

*Omit if steel

# Adaptors

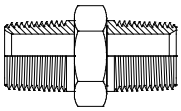
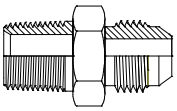
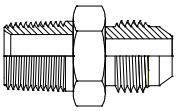
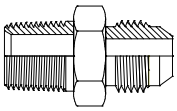
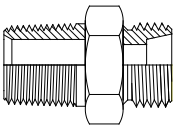
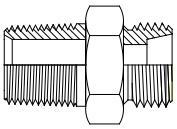
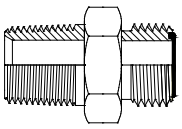




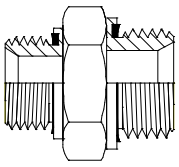
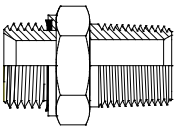
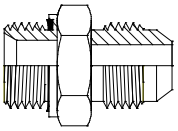
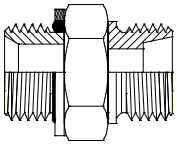
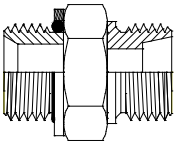
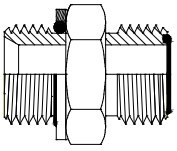
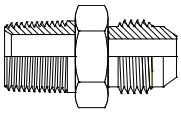
(08) 9451 2204

# Pictorial Index

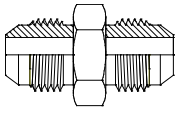
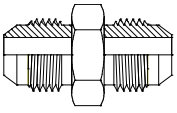
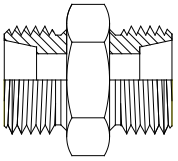
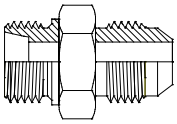
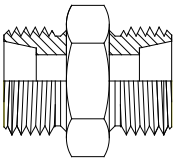
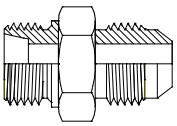
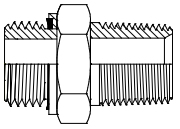
## M/M Nipple

| B1M | BJ1M | BJIS1M | BK1M | BMH1M | BML1M | BORS1M |
|---|---|---|---|---|---|---|
| C18 | C22 | C24 | C25 | C25 | C26 | C27 |
|  |  |  |  |  |  |  |
| BSPT Male X BSPT Male | BSPT Male X JIC Male | BSPT Male X JIS (BSPP) Male | BSPT Male X Komatsu JIS (Metric) Male | BSPT Male X Metric Heavy (S) Male | BSPT Male X Metric Light (L) Male | BSPT Male X ORFS Male |

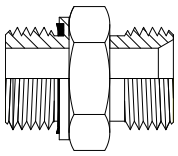
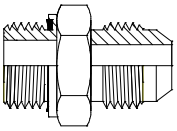
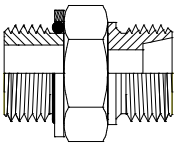
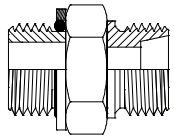
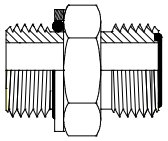
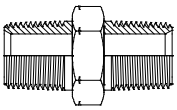
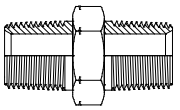
## M/M Nipple Cont...

| BP1M | BPB1M | BPJ1M | BPMH1M | BPML1M | BPORS1M | BS1M |
|---|---|---|---|---|---|---|
| C29 | C31 | C32 | C35 | C37 | C39 | C40 |
|  |  |  |  |  |  |  |
| BSPP Male X BSPP Male | BSPP Male X BSPT Male | BSPP Male X JIC Male | BSPP Male X Metric Heavy (S) Male | BSPP Male X Metric Light (L) Male | BSPP Male X ORFS Male | BSPT Male X SAE Male |

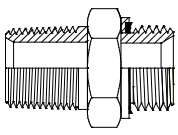
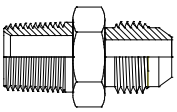
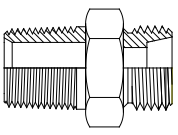
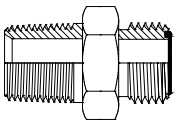
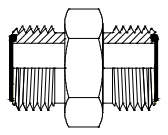
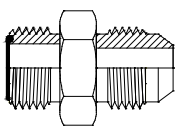
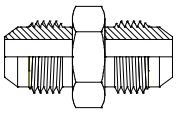
## M/M Nipple Cont...

| J1M | K1M | MH1M | MHJ1M | ML1M | MLJ1M | MSB1M |
|---|---|---|---|---|---|---|
| C43 | C44 | C46 | C49 | C51 | C53 | C54 |
|  |  |  |  |  |  |  |
| JIC Male X JIC Male | Komatsu Male X Komatsu Male | Metric Heavy (S) Male X Metric Heavy (S) Male | Metric Heavy (S) Male X JIC Male | Metric Light (L) Male X Metric Light (L) Male | Metric Light (L) Male X JIC Male | Metric Stud Male X BSPT Male |

## M/M Nipple Cont...

| MSBP1M | MSJ1M | MSMH1M | MSML1M | MSORS1M | N1M | NB1M |
|---|---|---|---|---|---|---|
| C55 | C56 | C57 | C57 | C58 | C60 | C61 |
|  |  |  |  |  |  |  |
| Metric Stud Male X BSPP Male | Metric Stud Male X JIC Male | Metric Stud Male X Metric Heavy (S) Male | Metric Stud Male X Metric Light (L) Male | Metric Stud Male X ORFS Male | NPT Male X NPT Male | NPT Male X BSPT Male |

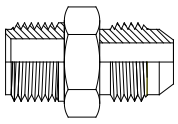
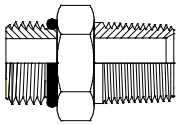
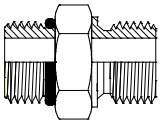
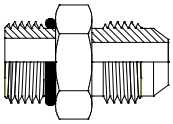
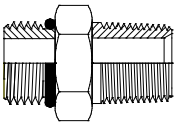
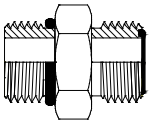
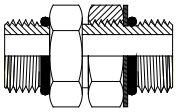
## M/M Nipple Cont...

| NBP1M | NJ1M | NMH1M | NORS1M | ORS1M | ORSJ1M | S1M |
|---|---|---|---|---|---|---|
| C62 | C64 | C65 | C66 | C68 | C69 | C70 |
|  |  |  |  |  |  |  |
| NPT Male X BSPP Male | NPT Male X JIC Male | NPT Male X Metric Heavy (S) Male | NPT Male X ORFS Male | ORFS Male X ORFS Male | ORFS Male X JIC Male | SAE Male X SAE Male |

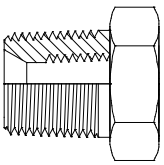
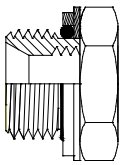
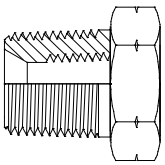
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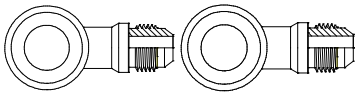
## M/M Nipple Cont...

| SINVJ1M | UB1M | UBP1M | UJ1M | UN1M | UORS1M | UPU1M |
|---|---|---|---|---|---|---|
| C70 | C72 | C74 | C74 | C78 | C79 | C80 |
|  |  |  |  |  |  |  |
| SAE Inverted Flare Male X JIC Male | UNO Male X BSPT Male | UNO Male X BSPP Male | UNO Male X JIC Male | UNO Male X NPT Male | UNO Male X ORFS Male | UNO Male X UNO Positional Male |

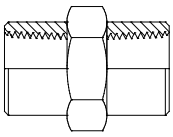
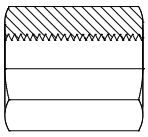
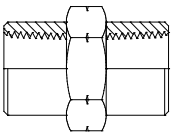
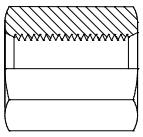
## M/F Reducing Bush

| B1B | BP1B | N1B |
|---|---|---|
| C16 | C28 | C59 |
|  |  |  |
| BSPT Male X BSPT Female Red Bush | BSPP Male X BSPP Female Red Bush | NPT Male X NPT Female Red Bush |

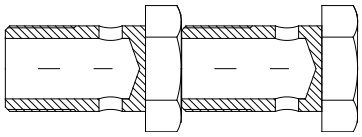
## Banjo

| BBANJOJ1M | MBANJOJ1M |
|---|---|
| C20 | C44 |
|  | |
| BSP Banjo X JIC Male | Metric Banjo X JIC Male |

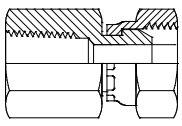
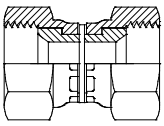
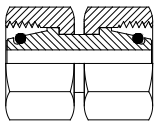
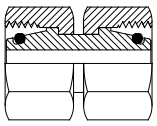
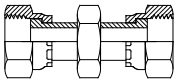
## F/F Socket

| B1F | BP1F | N1F | U1F |
|---|---|---|---|
| C17 | C28 | C59 | C70 |
|  |  |  |  |
| BSPT Female X BSPT Female | BSPP Female X BSPP Female | NPT Female X NPT Female | UNO Female X UNO Female |

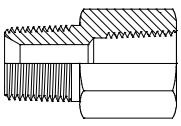
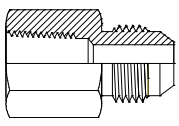
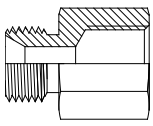
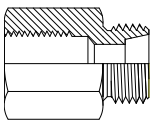
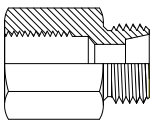
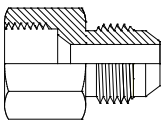
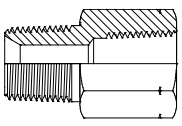
## Banjo Bolt

| BANJOBT-B | BANJOBT-M |
|---|---|
| C151 | C151 |
|  | |
| BSPP Banjo Bolt | Metric Banjo Bolt |

## F/F Swivel Socket

| B1FFS | J1FS | MH1FS | ML1FS | ORS1FS |
|---|---|---|---|---|
| C17 | C42 | C45 | C50 | C67 |
|  |  |  |  |  |
| BSPT Female X BSPP Female Swivel | JIC Female Swivel X JIC Female Swivel | Metric Heavy (S) Female Swivel X Metric Heavy (S) Female Swivel | Metric Light (L) Female Swivel X Metric Light (L) Female Swivel | ORFS Female Swivel X ORFS Female Swivel |

## M/F Fixed Union

| B1MF | BJ1FM | BP1MF | BPMH1FM | BPML1FM | J1FM | N1MF |
|---|---|---|---|---|---|---|
| C19 | C21 | C30 | C34 | C36 | C41 | C60 |
|  |  |  |  |  |  |  |
| BSPT Male X BSPT Female | BSPT Female X JIC Male | BSPP Male X BSPP Female | BSPP Female X Metric Heavy (S) Male | BSPP Female X Metric Light (L) Male | JIC Female X JIC Male | NPT Male X NPT Female |

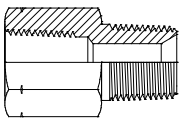
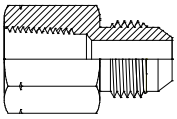
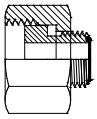
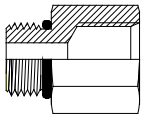
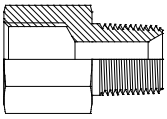
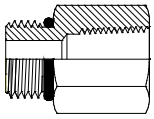
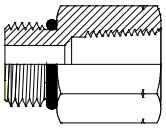


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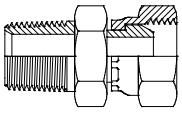
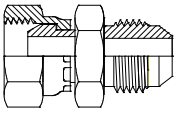
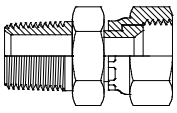
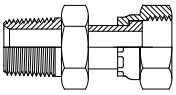
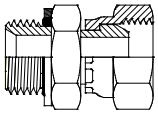
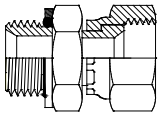
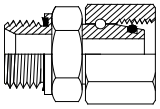
# Adaptors



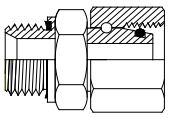
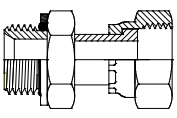
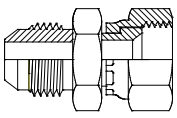
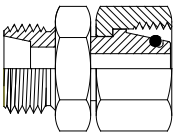
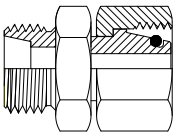
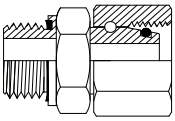
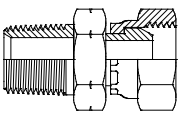
## M/F Fixed Union Cont...

| NB1FM | NJ1FM | ORS1FM | U1MF | UB1FM | UB1MF | UN1MF |
|---|---|---|---|---|---|---|
| C61 | C63 | C67 | C71 | C71 | C73 | C78 |
|  |  |  |  |  |  |  |
| NPT Female X BSPT Male | NPT Female X JIC Male | ORFS Female X ORFS Male | UNO Male X UNO Female | UNO Female X BSPT Male | UNO Male X BSPT Female | UNO Male X NPT Female |

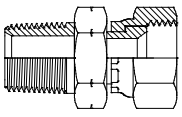
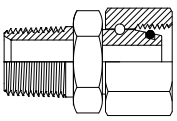
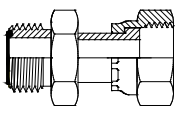
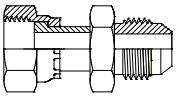
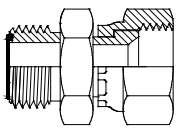
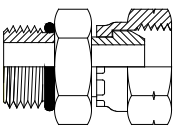
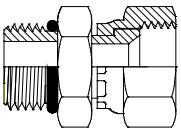
## M/F Swivel Union

| B1MFS | BJ1FSM | BJ1MFS | BORS1MFS | BP1MFS | BPJ1MFS | BPMH1MFS |
|---|---|---|---|---|---|---|
| C20 | C22 | C24 | C27 | C30 | C34 | C36 |
|  |  |  |  |  |  |  |
| BSPT Male X BSPP Female Swivel | BSPP Female Swivel X JIC Male | BSPT Male X JIC Female Swivel | BSPT Male X ORFS Female Swivel | BSPP Male X BSPP Female Swivel | BSPP Male X JIC Female Swivel | BSPP Male X Metric Heavy (S) Female Swivel |

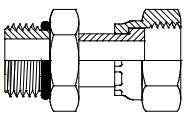
## M/F Swivel Union Cont...

| BPML1MFS | BPORS1MFS | J1MFS | MH1MFS | ML1MFS | MSML1MFS | N1MFS |
|---|---|---|---|---|---|---|
| C38 | C39 | C44 | C47 | C52 | C58 | C61 |
|  |  |  |  |  |  |  |
| BSPP Male X Metric Light (L) Female Swivel | BSPP Male X ORFS Female Swivel | JIC Male X JIC Female Swivel | Metric Heavy (S) Male X Metric Heavy (S) Female Swivel | Metric Light (L)Male X Metric Light (L) FemaleSwivel | Metric Stud Male X Metric Light (L) Female Swivel | NPT Male X NPSM Female Swivel |

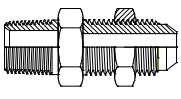
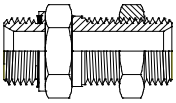
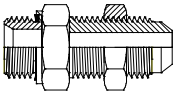
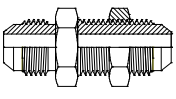
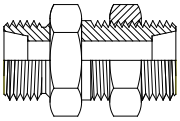
## M/F Swivel Union Cont...

| NJ1MFS | NMH1MFS | ORS1MFS | ORSJ1FSM | ORSJ1MFS | UB1MFS | UJ1MFS |
|---|---|---|---|---|---|---|
| C65 | C65 | C68 | C69 | C69 | C73 | C78 |
|  |  |  |  |  |  |  |
| NPT Male X JIC Female Swivel | NPT Male X Metric Heavy (S) Female Swivel | ORFS Male X ORFS Female Swivel | ORFS Female Swivel X JIC Male | ORFS Male X JIC Female Swivel | UNO Male X BSPP Female Swivel | UNO Male X JIC Female Swivel |

## M/F Swivel Union Cont...

| UORS1MFS |
|---|
| C79 |
|  |
| UNO Male X ORFS Female Swivel |

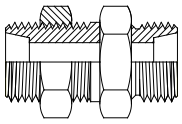
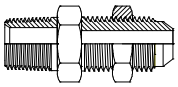
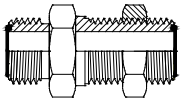
## M/M Bulkhead

| BJ10M | BP10M | BPJ10M | J10M | MH10M |
|---|---|---|---|---|
| C21 | C27 | C32 | C40 | C45 |
|  |  |  |  |  |
| BSPT Male X JIC Male Bulkhead | BSPP Male X BSPP Male Bulkhead | BSPP Male X JIC Male Bulkhead | JIC Male X JIC Male Bulkhead | Metric Heavy (S) Male X Metric Heavy (S) Male Bulkhead |

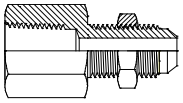
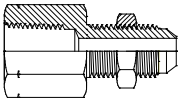
# Adaptors



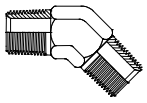
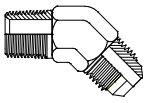
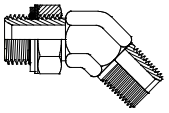
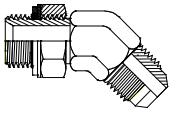
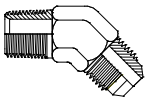
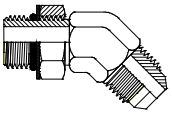
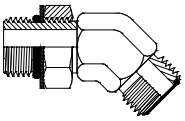
## M/M Bulkhead Cont...

| ML10M | NJ10M | ORS10M |
|---|---|---|
| C49 | C62 | C66 |
|  |  |  |
| Metric Light (L) Male X Metric Light (L) Male Bulkhead | NPT Male X JIC Male Bulkhead | ORFS Male X ORFS Male Bulkhead |

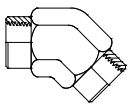
## M/F Bulkhead

| BJ10FM | NJ10FM |
|---|---|
| C21 | C62 |
|  |  |
| BSPT Female X JIC Male Bulkhead | NPT Female X JIC Male Bulkhead |

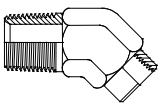
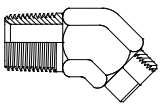
## 45° M/M Elbow

| B4M | BJ4M | BPB4M | BPJ4M | NJ4M | UJ4M | UORS4M |
|---|---|---|---|---|---|---|
| C81 | C82 | C83 | C83 | C85 | C87 | C87 |
|  |  |  |  |  |  |  |
| BSPT Male X BSPT Male 45° | BSPT Male X JIC Male 45° | BSPP Male X BSPT Male 45° | BSPP Male X JIC Male 45° | NPT Male X JIC Male 45° | UNO Male X JIC Male 45° | UNO Male X ORFS Male 45° |

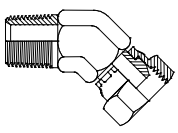
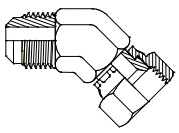
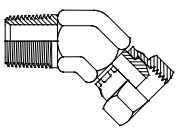
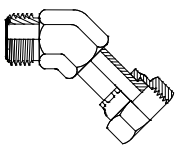
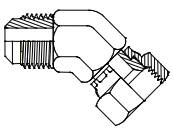
## 45° F/F Elbow

| B4F |
|---|
| C81 |
|  |
| BSPT Female X BSPT Female 45° |

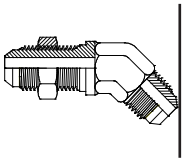
## 45° M/F Fixed Elbow

| B4MF | N4MF |
|---|---|
| C81 | C84 |
|  |  |
| BSPT Male X BSPT Female 45° | NPT Male X NPT Female 45° |

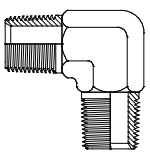
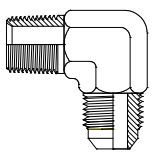
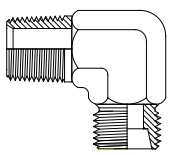
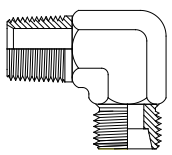
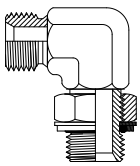
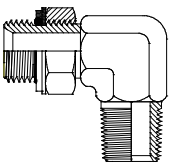
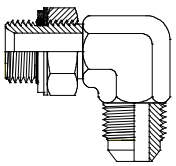
## 45° M/F Swivel Elbow

| B4MFS | J4MFS | N4MFS | ORS4MFS | S4MFS |
|---|---|---|---|---|
| C82 | C84 | C85 | C86 | C86 |
|  |  |  |  |  |
| BSPT Male X BSPP Female Swivel 45° | JIC Male X JIC Female Swivel 45° | NPT Male X NPSM Female Swivel 45° | ORFS Male X ORFS Female Swivel 45° | SAE Male X SAE Female Swivel 45° |

## 45° M/M Bulkhead Elbow

| J40M |
|---|
| C84 |
|  |
| JIC Male X JIC Male Bulkhead 45° |

## 90° M/M Elbow

| B9M | BJ9M | BMH9M | BML9M | BP9M | BPB9M | BPJ9M |
|---|---|---|---|---|---|---|
| C88 | C90 | C91 | C92 | C92 | C93 | C94 |
|  |  |  |  |  |  |  |
| BSPT Male X BSPT Male 90° | BSPT Male X JIC Male 90° | BSPT Male X Metric Heavy (S) Male 90° | BSPT Male X Metric Light (L) Male 90° | BSPP Male X BSPP Male 90° | BSPP Male X BSPT Male 90° | BSPP Male X JIC Male 90° |

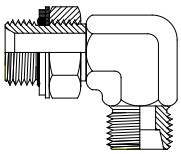


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# Adaptors

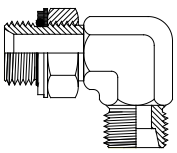
## 90° M/M Elbow Cont...

### BPMH9M
C95



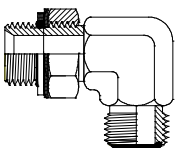
BSPP Male X Metric Heavy (S) Male 90°

### BPML9M
C95



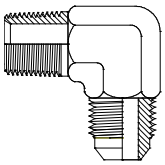
BSPP Male X Metric Light (L) Male 90°

### BPORS9M
C96



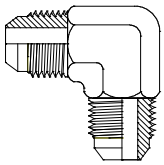
BSPP Male X ORFS Male 90°

### BS9M
C96



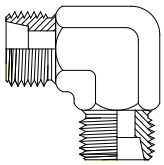
BSPT Male X SAE Male 90°

### J9M
C97



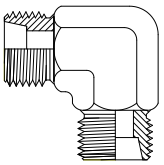
JIC Male X JIC Male 90°

### MH9M
C100



Metric Heavy (S) Male X Metric Heavy (S) Male 90°

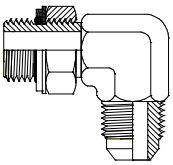
### ML9M
C101



Metric Light (L) Male Bulkhead X Metric Light (L) Male 90°

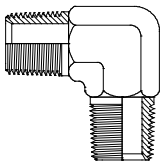
## 90° M/M Elbow Cont...

### MSJ9M
C101



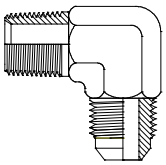
Metric Stud X JIC Male 90°

### N9M
C102



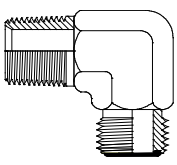
NPT Male X NPT Male 90°

### NJ9M
C104



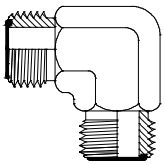
NPT Male X JIC Male 90°

### NORS9M
C105



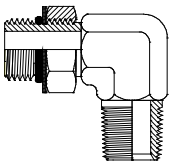
NPT Male X ORFS Male 90°

### ORS9M
C105



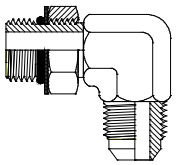
ORFS Male X ORFS Male 90°

### UB9M
C106



UNO Male X BSPT Male 90°

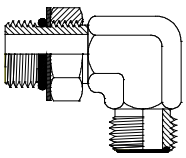
### UJ9M
C108



UNO Male X JIC Male 90°

## 90° M/M Elbow Cont...

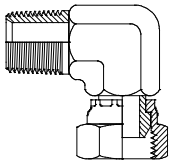
### UORS9M
C109



UNO Male X ORFS Male 90°

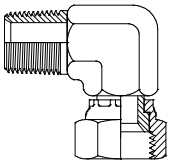
## 90° M/F Swivel Elbow

### B9MFS
C89



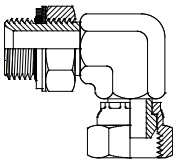
BSPT Male X BSPP Female Swivel 90°

### BJ9MFS
C91



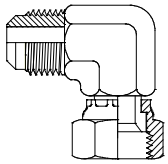
BSPT Male X JIC Female Swivel 90°

### BP9MFS
C93



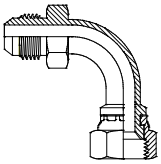
BSPP Male X BSPP Female Swivel 90°

### J9MFS
C98



JIC Male X JIC Female Swivel 90°

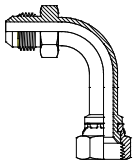
### J9SMFS
C99



JIC Male X JIC Female Swivel 90° Swept

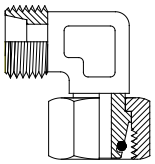
## 90° M/F Swivel Elbow Cont...

### J9SLMFS
C99



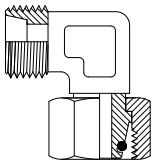
JIC Male X JIC Female Swivel 90° Swept (Long Drop)

### MH9MFS
C100



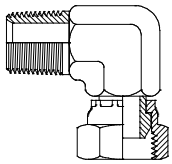
Metric Heavy(S) Male X Metric Heavy(S) Female Swivel 90°

### ML9MFS
C101



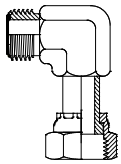
Metric Light (L) Male X Metric Light (L) Female Swivel 90°

### N9MFS
C103



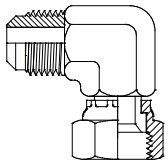
NPT Male X NPSM Female Swivel 90°

### ORS9MFS
C106



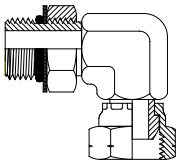
ORFS Male X ORFS Female Swivel 90°

### S9MFS
C106



SAE Male X SAE Female Swivel 90°

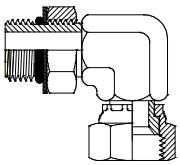
### UB9MFS
C107



UNO Male X BSPP Female Swivel 90°

## 90° M/F Swivel Elbow Cont...

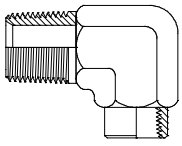
### UJ9MFS
C109



UNO Male X JIC Female Swivel 90°

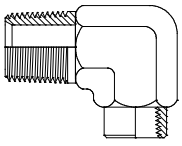
## 90° M/F Fixed Elbow

### B9MF
C89



BSPT Male X BSPT Female 90°

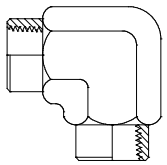
### N9MF
C103



NPT Male X NPT Female 90°

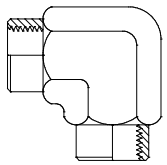
## 90° F/F Elbow

### B9F
C88



BSPT Female X BSPT Female 90°

### BP9F
C92

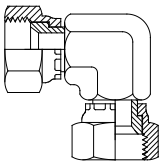
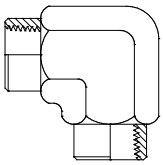


BSPP Female X BSPP Female 90°

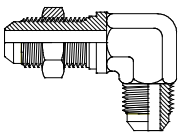
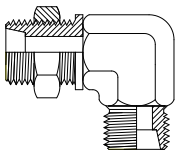
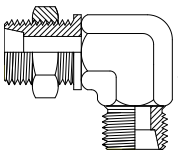
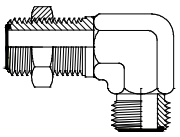
# Adaptors



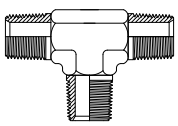
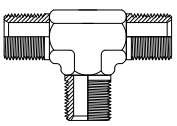
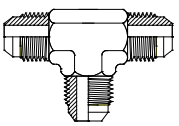
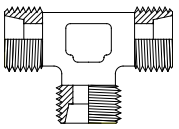
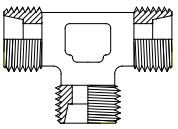
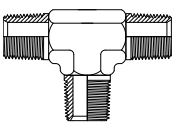
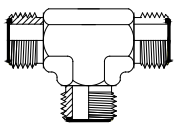
## 90° F/F ElbowCont...

| J9FS | N9F |
|---|---|
| C97 | C102 |
|  |  |
| JIC Female Swivel X JIC Female Swivel 90° | NPT Female X NPT Female 90° |

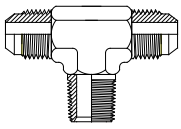
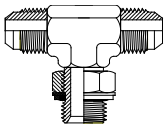
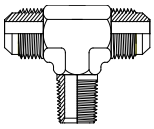
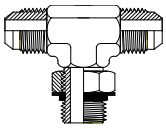
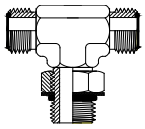
## 90° M/M Bulkhead Elbow

| J90M | MH90M | ML90M | ORS90M |
|---|---|---|---|
| C96 | C99 | C100 | C105 |
|  |  |  |  |
| JIC Male X JIC Male Bulkhead 90° | Metric Heavy(S) Male X Metric Heavy(S) Male Bulkhead 90° | Metric Light(L) Male X Metric Light(S) Male Bulkhead 90° | ORFS Male X ORFS Male Bulkhead 90° |

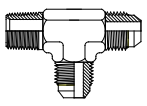
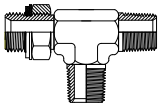
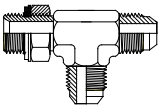
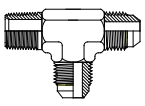
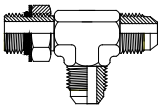
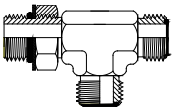
## M/M/M Tee

| B3M | BP3M | J3M | MH3M | ML3M | N3M | ORS3M |
|---|---|---|---|---|---|---|
| C111 | C113 | C115 | C117 | C118 | C119 | C120 |
|  |  |  |  |  |  |  |
| BSPT Male Tee | BSPP Male Tee | JIC Male Tee | Metric Heavy (S) Male Tee | Metric Light (L) Male Tee | NPT Male Tee | ORFS Male Tee |

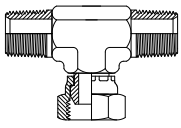
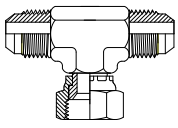
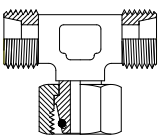
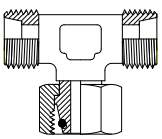
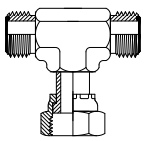
## M/M/M Leg Tee

| BJ3ML | BPJ3ML | NJ3ML | UJ3ML | UORS3ML |
|---|---|---|---|---|
| C112 | C113 | C120 | C122 | C122 |
|  |  |  |  |  |
| BSPT Male (Leg) X JIC Male X JIC Male Tee | BSPP Male (Leg) X JIC Male X JIC Male Tee | NPT Male (Leg) X JIC Male X JIC Male Tee | UNO Male (Leg) X JIC Male X JIC Male Tee | UNO Male(Leg) X ORFS Male X ORFS Male Tee |

## M/M/M Run Tee

| BJ3MR | BPB3MR | BPJ3MR | NJ3MR | UJ3MR | UORS3MR |
|---|---|---|---|---|---|
| C112 | C113 | C114 | C120 | C122 | C123 |
|  |  |  |  |  |  |
| BSPT Male (Run) X JIC Male X JIC Male Tee | BSPP Male (Run) X BSPT Male X BSPT Male Tee | BSPP Male (Run) X JIC Male X JIC Male Tee | NPT Male (Run) X JIC Male X JIC Male Tee | UNO Male (Run) X JIC Male X JIC Male Tee | UNO Male (Run) X ORFS Male X ORFS Male Tee |

## M/M/F Swivel Leg Tee

| B3MFSL | J3MFSL | MH3MFSL | ML3MFSL | ORS3MFSL |
|---|---|---|---|---|
| C111 | C116 | C117 | C118 | C121 |
|  |  |  |  |  |
| BSPT Male X Male X Female Swivel (Leg) Tee | JIC Male X Male X Female Swivel (Leg) Tee | Metric Heavy (S) Male X Male X Female Swivel (Leg) Tee | Metric Light (L) Male X Male x Female Swivel (Leg) Tee | ORFS X Male X Male X Female Swivel (Leg) Tee |

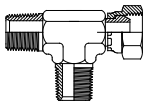
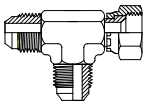
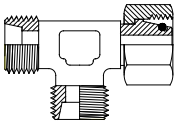
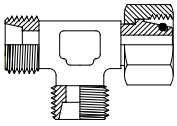
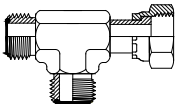


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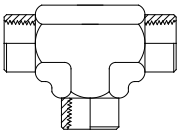
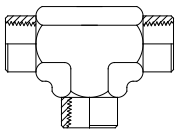
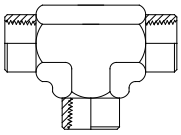
# Adaptors



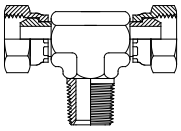
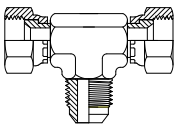
## M/M/F Swivel Run Tee

| B3MFSR | J3MFSR | MH3MFSR | ML3MFSR | ORS3MFSR |
|---|---|---|---|---|
| C111 | C116 | C117 | C118 | C121 |
|  |  |  |  |  |
| BSPT Male X Male X BSPP Female Swivel (Run) Tee | JIC Male X Male X Femal Swivel (Run) Tee | Metric Heavy (S) Male X Male X Female/Swivel (Run) Tee | Metric Light (L) Male X Male X Female Swivel (Run) Tee | ORFS Male X Male X Female Swivel (Run) Tee |

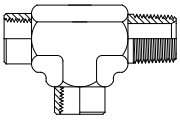
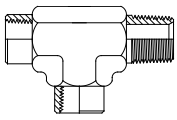
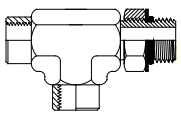
## F/F/F Tee

| B3F | BP3F | N3F |
|---|---|---|
| C110 | C112 | C119 |
|  |  |  |
| BSPT Female Tee | BSPP Female Tee | NPT Female Tee |

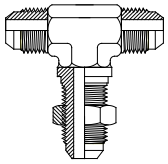
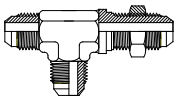
## F/F/M Leg Tee

| B3FSML | J3FSML |
|---|---|
| C110 | C115 |
|  |  |
| BSPP F Swivel X BSPP F Swivel X BSPT M (Leg) Tee | JIC F Swivel X JIC F Swivel X JIC M (Leg) |

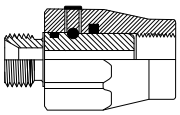
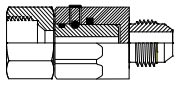
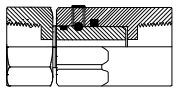
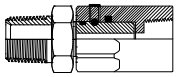
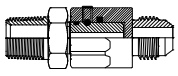
## F/F/M Run Tee

| B3FMR | N3FMR | U3FMR |
|---|---|---|
| C110 | C119 | C121 |
|  |  |  |
| BSPT Female X Female X Male (Run)Tee | NPT Female X Female X Male (Run) Tee | UNO Female X Female X Male (Run) Tee |

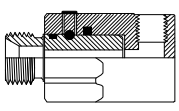
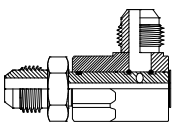
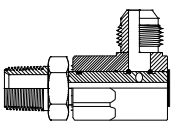
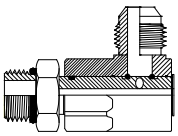
## M/M/M Bulkhead Tee

| J30ML | J30MR |
|---|---|
| C114 | C114 |
|  |  |
| JIC M X Male X Male Bulkhead (Leg) Tee | JIC Male X Male X Male Bulkhead (Run)Tee |

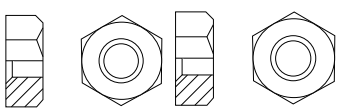
## In-Line Swivel Joint

| SWJ-BP1MF | SWJ-J1FM | SWJ-N1F | SWJ-N1MF | SWJ-NJ1M |
|---|---|---|---|---|
| C125 | C125 | C125 | C125 | C126 |
|  |  |  |  |  |
| BSPP Male Stem X BSPP Female Body In-Line Swivel Joint | JIC Female Stem X JIC Male Body In-Line Swivel Joint | NPT Female Stem X NPT Female Body In-Line Swivel Joint | NPT Male Stem X NPT Female Body In-Line Swivel Joint | NPT Male Stem X JIC Male Body In-Line Swivel Joint |

## 90° Swivel Joint

| SWJ-BP9MF | SWJ-J9M | SWJ-NJ9M | SWJ-UJ9M |
|---|---|---|---|
| C126 | C126 | C126 | C127 |
|  |  |  |  |
| BSPP Male Stem X BSPP Female Body 90° Swivel Joint | JIC Male Stem X JIC Male Body 90° Swivel Joint | NPT Male Stem X JIC Male Body 90° Swivel Joint | UNO Male Stem X JIC Male Body 90° Swivel Joint |

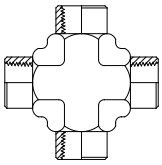
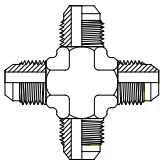
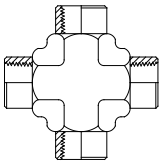
## Bulkhead Nuts

| BPBHN | JBHN |
|---|---|
| C152 | C152 |
|  | |
| BSPP Bulkhead Lock Nut | JIC Bulkhead Lock Nut |

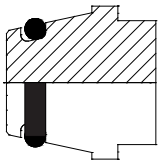
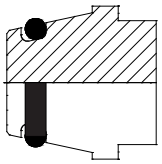
# Adaptors



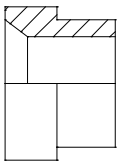
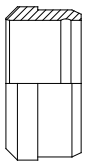
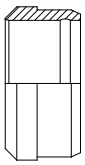
## Cross

| BXF | JXM | NXF |
|---|---|---|
| C124 | C124 | C124 |
|  |  |  |
| BSPT Female Cross | JIC Male Cross | NPT Female Cross |

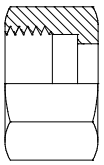
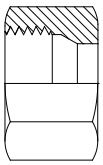
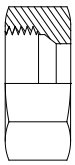
## Tube Insert

| MHI | MLI |
|---|---|
| C129 | C130 |
|  |  |
| Metric Heavy (S) Insert | Metric Light (L) Insert |

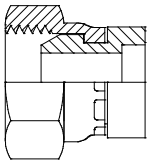
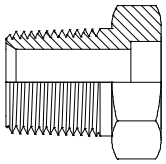
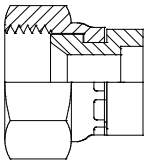
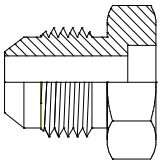
## Tube Sleeve

| JFF | MHF | MLF |
|---|---|---|
| C128 | C129 | C130 |
|  |  |  |
| Flare Tube Sleeve | Metric Heavy (S) Cutting Ring | Metric Light (L) Cutting Ring |

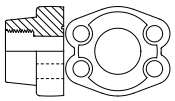
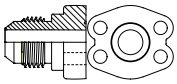
## Tube Nut

| JNF | MHN | MLN |
|---|---|---|
| C128 | C129 | C130 |
|  |  |  |
| JIC X Tube Nut | Metric Heavy (S) Tube Nut | Metric Light (L) Tube Nut |

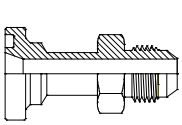
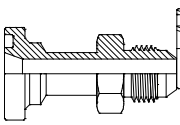
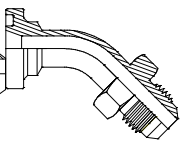
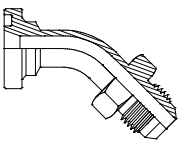
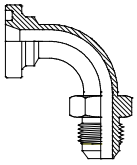
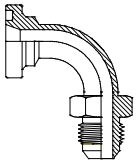
## Tube Weld

| BFSTW | BMTW | JFSTW | JMTW |
|---|---|---|---|
| C131 | C131 | C132 | C132 |
|  |  |  |  |
| BSPP Female Swivel X Tube Weld | BSPT Male X Tube Weld | JIC Female Swivel X Tube Weld | JIC Male X Tube Weld |

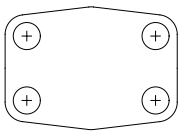
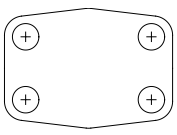
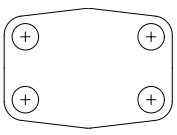
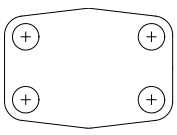
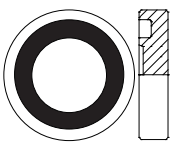
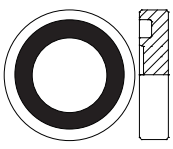
## SAE Flange Block

| F6*BP1F | F6*J1M |
|---|---|
| C135 | C136 |
|  |  |
| Code 61/62 Flange Block X BSP Female | Code 61/62 Flange Block X JIC Male |

## SAE Flange Adaptor

| SF61J1M | SF62J1M | SF61J4M | SF62J4M | SF61J9M | SF62J9M |
|---|---|---|---|---|---|
| C133 | C133 | C134 | C134 | C134 | C135 |
|  |  |  |  |  |  |
| Code 61 Flange X JIC Male | Code 62 Flange X JIC Male | Code61 Flange X JIC Male Swept 45° | Code 62 Flange X JIC Male Swept 45° | Code 61 Flange X JIC Male Swept 90° | Code 62 Flange X JIC Male Swept 90° |

## SAE Flange Blanks

| FB61 | FB62 | FBC | FBL61 | FBL62 | FBI61 | FBI62 |
|---|---|---|---|---|---|---|
| C137 | C137 | C137 | C138 | C139 | C138 | C138 |
|  |  |  |  |  |  |  |
| Code 61 Flange Blank (High Pressure) | Code 62 Flange Blank (High Pressure) | Flange Blank Caps | Code 61 Flange Blank (Low Pressure) | Code 62 Flange Blank (Low Pressure) | Code 61 Flange Blank Insert | Code 62 Flange Blank Insert |

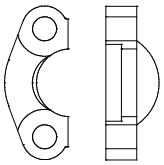
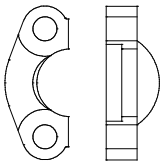


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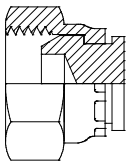
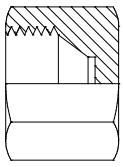
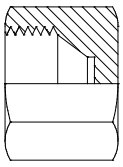
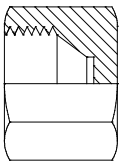
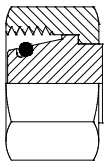
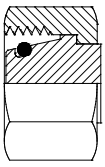
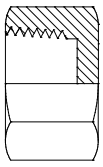
# Adaptors



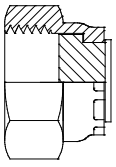
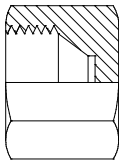
## SAE Flange Clamps

| SFC61 | SFC62 | SFK61 | SFK61M | SFK62 | SFK62M |
|---|---|---|---|---|---|
| C139 | C139 | C140 | C140 | C140 | C140 |
|  |  |  |  |  |  |
| Code 61 Split Flange Clamp (Pair) | Code 62 Split Flange Clamp (Pair) | Code 61 Split Flange Kit (Imperial Bolt Set) | Code 61 Split Flange Kit (Metric Bolt Set) | Code 62 Split Flange Kit (Imperial Bolt Set) | Code 62 Split Flange Kit (Metric Bolt Set) |

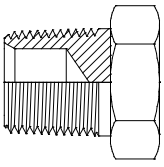
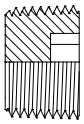
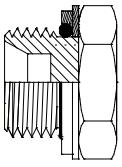
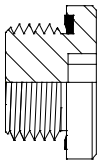
## Caps

| BPC | JC | JISC | KC | MHC | MLC | NC |
|---|---|---|---|---|---|---|
| C141 | C141 | C141 | C142 | C142 | C142 | C143 |
|  |  |  |  |  |  |  |
| BSPP Cap | JIC Cap | JIS (BSPP) Cap | Komatsu Cap | Metric Heavy (S) Cap | Metric Light (L) Cap | NPT Cap |

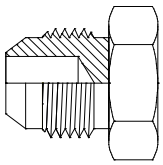
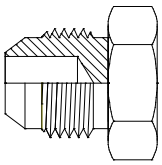
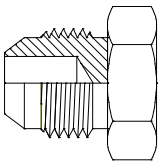
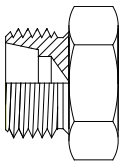
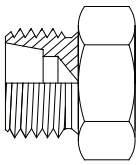
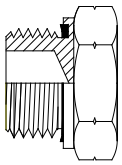
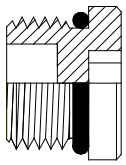
## Caps Cont...

| ORSC | SC |
|---|---|
| C143 | C143 |
|  |  |
| ORFS Female Cap | SAE Cap |

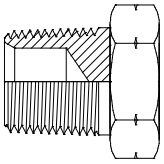
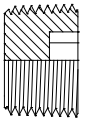
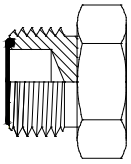
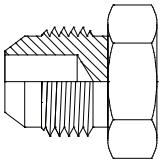
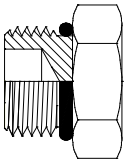
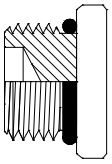
## Plugs

| BP | BP-R | BPP | BPP-R |
|---|---|---|---|
| C144 | C144 | C144 | C145 |
|  |  |  |  |
| BSPT Plug | BSPT Socket Head Plug (Round) | BSPP Plug | BSPP C/Sunk Plug Encapsulated Seal |

## Plugs Cont...

| JISP | JP | KP | MHP | MLP | MSP | MSP-R |
|---|---|---|---|---|---|---|
| C145 | C145 | C146 | C146 | C146 | C147 | C148 |
|  |  |  |  |  |  |  |
| JIS(BSPP) Plug | JIC Plug | Komatsu Plug | Metric Heavy (S) Plug | Metric Light (L) Plug | Metric Stud Plug (PORT PLUG) | Metric Stud Countersunk Plug(PORT PLUG) |

## Plugs Cont...

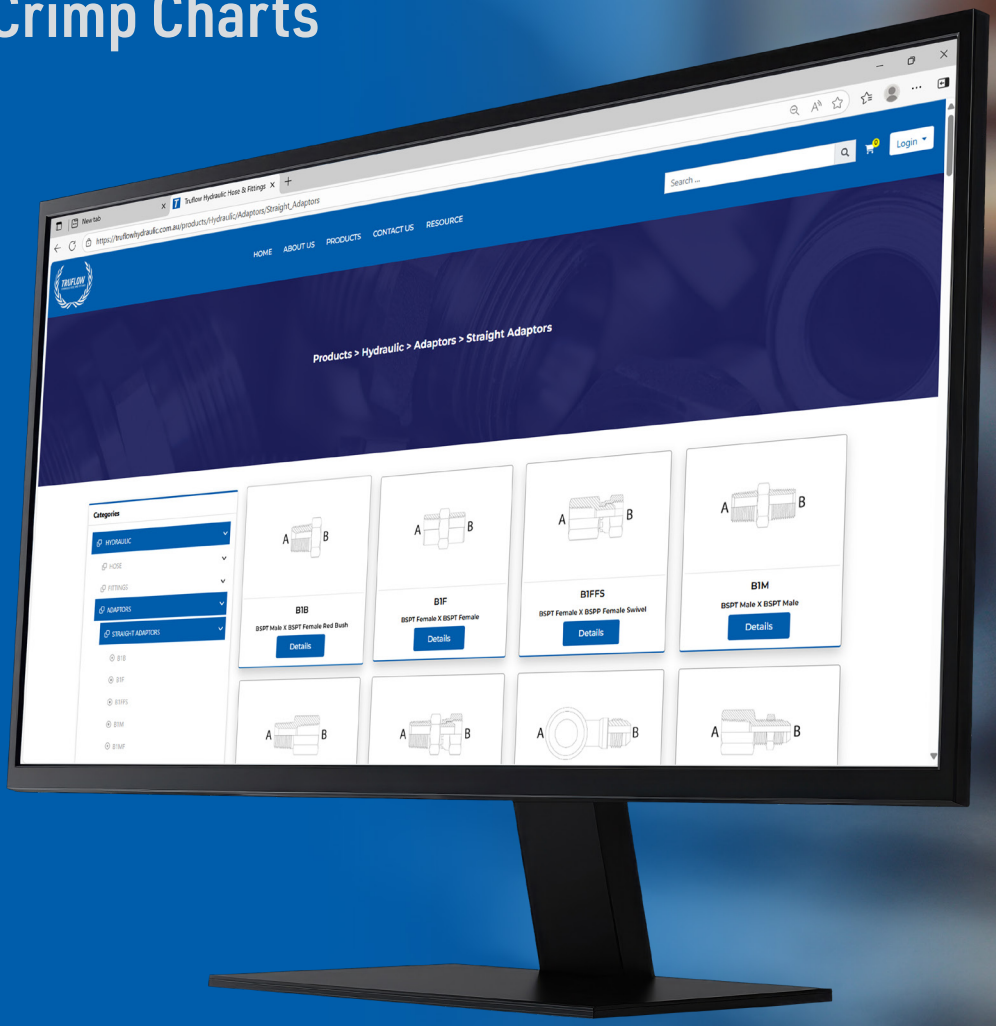
| NP | NP-R | ORSP | SP | UP | UP-R |
|---|---|---|---|---|---|
| C148 | C149 | C149 | C149 | C150 | C150 |
|  |  |  |  |  |  |
| NPT Plug | NPT Socket Head Plug (Round) | ORFS MALE PLUG | SAE Plug | UNO Plug | UNO Plug Counter Sunk |

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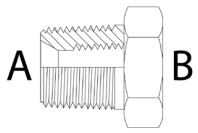
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Quantity

## Straight Adaptors

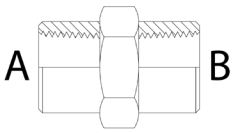
**B1B** | **BSPT Male X BSPT Female Red Bush**




| Part # | BSPT M | BSPT F |
|---|---|---|
| B1B-04-02 | 1/4 | 1/8 |
| B1B-04-02SS* | 1/4 | 1/8 |
| B1B-06-02 | 3/8 | 1/8 |
| B1B-06-04 | 3/8 | 1/4 |
| B1B-06-04SS* | 3/8 | 1/4 |
| B1B-08-02 | 1/2 | 1/8 |
| B1B-08-04 | 1/2 | 1/4 |
| B1B-08-06 | 1/2 | 3/8 |
| B1B-08-06SS* | 1/2 | 3/8 |
| B1B-12-04 | 3/4 | 1/4 |
| B1B-12-06 | 3/4 | 3/8 |
| B1B-12-08 | 3/4 | 1/2 |
| B1B-12-08SS* | 3/4 | 1/2 |
| B1B-16-04 | 1 | 1/4 |
| B1B-16-06 | 1 | 3/8 |
| B1B-16-08 | 1 | 1/2 |
| B1B-16-12 | 1 | 3/4 |
| B1B-16-12SS* | 1 | 3/4 |
| B1B-20-08 | 1 1/4 | 1/2 |
| B1B-20-12 | 1 1/4 | 3/4 |
| B1B-20-16 | 1 1/4 | 1 |
| B1B-24-08 | 1 1/2 | 1/2 |
| B1B-24-12 | 1 1/2 | 3/4 |
| B1B-24-16 | 1 1/2 | 1 |
| B1B-24-20 | 1 1/2 | 1 1/4 |
| B1B-32-16 | 2 | 1 |
| B1B-32-20 | 2 | 1 1/4 |
| B1B-32-24 | 2 | 1 1/2 |

* SS = Stainless Steel

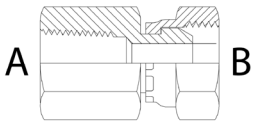
## B1F — BSPT Female X BSPT Female




| Part # | BSPT F | BSPT F |
|---|---|---|
| B1F-02-02 | 1/8 | 1/8 |
| B1F-02-02SS* | 1/8 | 1/8 |
| B1F-02-04 | 1/8 | 1/4 |
| B1F-02-06 | 1/8 | 3/8 |
| B1F-04-04 | 1/4 | 1/4 |
| B1F-04-04SS* | 1/4 | 1/4 |
| B1F-04-06 | 1/4 | 3/8 |
| B1F-04-08 | 1/4 | 1/2 |
| B1F-04-08SS* | 1/4 | 1/2 |
| B1F-06-06 | 3/8 | 3/8 |
| B1F-06-06SS* | 3/8 | 3/8 |
| B1F-06-08 | 3/8 | 1/2 |
| B1F-06-12SS* | 3/8 | 3/4 |
| B1F-08-08 | 1/2 | 1/2 |
| B1F-08-08SS* | 1/2 | 1/2 |
| B1F-08-12 | 1/2 | 3/4 |
| B1F-08-12SS* | 1/2 | 3/4 |
| B1F-12-12 | 3/4 | 3/4 |
| B1F-12-12SS* | 3/4 | 3/4 |
| B1F-12-16 | 3/4 | 1 |
| B1F-16-16 | 1 | 1 |
| B1F-16-20 | 1 | 1 1/4 |
| B1F-20-20 | 1 1/4 | 1 1/4 |
| B1F-24-24 | 1 1/2 | 1 1/2 |
| B1F-32-32 | 2 | 2 |
| B1F-40-40 | 2 1/2 | 2 1/2 |
| B1F-48-48 | 3 | 3 |

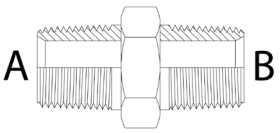
* SS = Stainless Steel

## B1FFS — BSPT Female X BSPP Female Swivel




| Part # | BSPT F | BSPP F/S |
|---|---|---|
| B1FFS-04-04 | 1/4 | 1/4 |
| B1FFS-06-06 | 3/8 | 3/8 |
| B1FFS-08-06 | 1/2 | 3/8 |
| B1FFS-08-08 | 1/2 | 1/2 |
| B1FFS-12-12 | 3/4 | 3/4 |
| B1FFS-16-16 | 1 | 1 |

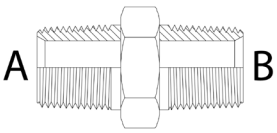
## B1M — BSPT Male X BSPT Male




| Part # | BSPT M | BSPT M |
|---|---|---|
| B1M-02-02 | 1/8 | 1/8 |
| B1M-02-04 | 1/8 | 1/4 |
| B1M-02-04SS* | 1/8 | 1/4 |
| B1M-02-06 | 1/8 | 3/8 |
| B1M-02-06SS* | 1/8 | 3/8 |
| B1M-04-04 | 1/4 | 1/4 |
| B1M-04-04SS* | 1/4 | 1/4 |
| B1M-04-06 | 1/4 | 3/8 |
| B1M-04-06SS* | 1/4 | 3/8 |
| B1M-04-08 | 1/4 | 1/2 |
| B1M-04-08SS* | 1/4 | 1/2 |
| B1M-04-12 | 1/4 | 3/4 |
| B1M-06-06 | 3/8 | 3/8 |
| B1M-06-06SS* | 3/8 | 3/8 |
| B1M-06-08 | 3/8 | 1/2 |
| B1M-06-08SS* | 3/8 | 1/2 |
| B1M-06-12 | 3/8 | 3/4 |
| B1M-06-12SS* | 3/8 | 3/4 |
| B1M-06-16 | 3/8 | 1 |
| B1M-06-16SS* | 3/8 | 1 |
| B1M-08-08 | 1/2 | 1/2 |
| B1M-08-08SS* | 1/2 | 1/2 |
| B1M-08-10 | 1/2 | 5/8 |
| B1M-08-12 | 1/2 | 3/4 |
| B1M-08-12SS* | 1/2 | 3/4 |
| B1M-08-16 | 1/2 | 1 |
| B1M-10-10 | 5/8 | 5/8 |
| B1M-10-12 | 5/8 | 3/4 |
| B1M-12-12 | 3/4 | 3/4 |
| B1M-12-12SS* | 3/4 | 3/4 |
| B1M-12-16 | 3/4 | 1 |
| B1M-12-16SS* | 3/4 | 1 |
| B1M-12-20 | 3/4 | 1 1/4 |
| B1M-12-20SS* | 3/4 | 1 1/4 |
| B1M-12-24 | 3/4 | 1 1/2 |
| B1M-16-16 | 1 | 1 |
| B1M-16-16SS* | 1 | 1 |
| B1M-16-20 | 1 | 1 1/4 |
| B1M-16-24 | 1 | 1 1/2 |
| B1M-16-24SS* | 1 | 1 1/2 |
| B1M-20-20 | 1 1/4 | 1 1/4 |

* SS = Stainless Steel

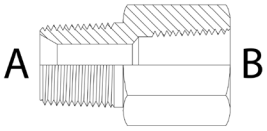
## B1M Cont... BSPT Male X BSPT Male




| Part # | BSPT M | BSPT M |
|---|---|---|
| B1M-20-20SS* | 1 1/4 | 1 1/4 |
| B1M-20-24 | 1 1/4 | 1 1/2 |
| B1M-20-24SS* | 1 1/4 | 1 1/2 |
| B1M-20-32 | 1 1/4 | 2 |
| B1M-24-24 | 1 1/2 | 1 1/2 |
| B1M-24-24SS* | 1 1/2 | 1 1/2 |
| B1M-24-32 | 1 1/2 | 2 |
| B1M-32-32 | 2 | 2 |

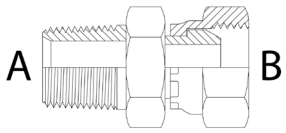
* SS = Stainless Steel

## B1MF BSPT Male X BSPT Female




| Part # | BSPT M | BSPT F |
|---|---|---|
| B1MF-02-02 | 1/8 | 1/8 |
| B1MF-02-04 | 1/8 | 1/4 |
| B1MF-04-04 | 1/4 | 1/4 |
| B1MF-04-06 | 1/4 | 3/8 |
| B1MF-04-08 | 1/4 | 1/2 |
| B1MF-06-06 | 3/8 | 3/8 |
| B1MF-06-08 | 3/8 | 1/2 |
| B1MF-08-08 | 1/2 | 1/2 |
| B1MF-08-12 | 1/2 | 3/4 |
| B1MF-08-16 | 1/2 | 1 |
| B1MF-12-12 | 3/4 | 3/4 |
| B1MF-12-16 | 3/4 | 1 |
| B1MF-16-16 | 1 | 1 |
| B1MF-16-20 | 1 | 1 1/4 |
| B1MF-20-20 | 1 1/4 | 1 1/4 |
| B1MF-24-24 | 1 1/2 | 1 1/2 |
| B1MF-32-32 | 2 | 2 |

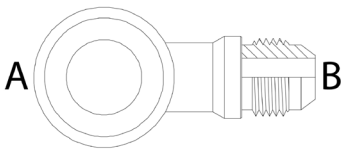
## B1MFS — BSPT Male X BSPP Female Swivel




| Part # | BSPT M | BSPP F/S |
|---|---|---|
| B1MFS-02-02 | 1/8 | 1/8 |
| B1MFS-02-04 | 1/8 | 1/4 |
| B1MFS-04-04 | 1/4 | 1/4 |
| B1MFS-04-04SS* | 1/4 | 1/4 |
| B1MFS-04-06 | 1/4 | 3/8 |
| B1MFS-04-08 | 1/4 | 1/2 |
| B1MFS-06-04 | 3/8 | 1/4 |
| B1MFS-06-06 | 3/8 | 3/8 |
| B1MFS-06-08 | 3/8 | 1/2 |
| B1MFS-06-12 | 3/8 | 3/4 |
| B1MFS-08-04 | 1/2 | 1/4 |
| B1MFS-08-06 | 1/2 | 3/8 |
| B1MFS-08-06SS* | 1/2 | 3/8 |
| B1MFS-08-08 | 1/2 | 1/2 |
| B1MFS-08-08SS* | 1/2 | 1/2 |
| B1MFS-08-12 | 1/2 | 3/4 |
| B1MFS-08-16 | 1/2 | 1 |
| B1MFS-12-08 | 3/4 | 1/2 |
| B1MFS-12-12 | 3/4 | 3/4 |
| B1MFS-12-16 | 3/4 | 1 |
| B1MFS-16-12 | 1 | 3/4 |
| B1MFS-16-16 | 1 | 1 |
| B1MFS-16-20 | 1 | 1 1/4 |
| B1MFS-20-16 | 1 1/4 | 1 |
| B1MFS-20-20 | 1 1/4 | 1 1/4 |
| B1MFS-20-24 | 1 1/4 | 1 1/2 |
| B1MFS-20-24SS* | 1 1/4 | 1 1/2 |
| B1MFS-24-24 | 1 1/2 | 1 1/2 |
| B1MFS-32-32 | 2 | 2 |

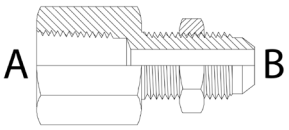
* SS = Stainless Steel

## BBANJOJ1M — BSP Banjo X JIC Male



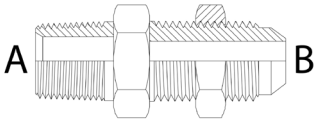

| Part # | Banjo | JIC M |
|---|---|---|
| BBANJOJ1M-04-04 | 1/4 | 7/16 |
| BBANJOJ1M-04-06 | 1/4 | 9/16 |
| BBANJOJ1M-06-06 | 3/8 | 9/16 |
| BBANJOJ1M-08-08 | 1/2 | 3/4 |

## BJ10FM — BSPT Female X JIC Male Bulkhead



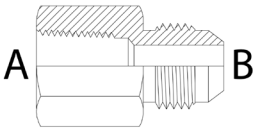

| Part # | BSPT F | JIC BH |
|---|---|---|
| BJ10FM-02-04 | 1/8 | 7/16 |
| BJ10FM-04-04 | 1/4 | 7/16 |

## BJ10M — BSPT Male X JIC Male Bulkhead



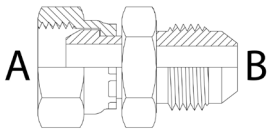

| Part # | BSPT M | JIC BH |
|---|---|---|
| BJ10M-06-06 | 3/8 | 9/16 |
| BJ10M-08-08 | 1/2 | 3/4 |

## BJ1FM — BSPT Female X JIC Male



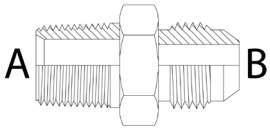

| Part # | BSPT F | JIC M |
|---|---|---|
| BJ1FM-02-04 | 1/8 | 7/16 |
| BJ1FM-02-06 | 1/8 | 9/16 |
| BJ1FM-04-04 | 1/4 | 7/16 |
| BJ1FM-04-06 | 1/4 | 9/16 |
| BJ1FM-06-06 | 3/8 | 9/16 |
| BJ1FM-06-08 | 3/8 | 3/4 |
| BJ1FM-08-06 | 1/2 | 9/16 |
| BJ1FM-08-08 | 1/2 | 3/4 |
| BJ1FM-08-10 | 1/2 | 7/8 |
| BJ1FM-08-12 | 1/2 | 1 1/16 |
| BJ1FM-12-08 | 3/4 | 3/4 |
| BJ1FM-12-12 | 3/4 | 1 1/16 |
| BJ1FM-16-16 | 1 | 1 5/16 |

## BJ1FSM — BSPP Female Swivel X JIC Male




| Part # | BSPP F/S | JIC M |
|---|---|---|
| BJ1FSM-04-04 | 1/4 | 7/16 |
| BJ1FSM-04-06 | 1/4 | 9/16 |
| BJ1FSM-06-04 | 3/8 | 7/16 |
| BJ1FSM-06-06 | 3/8 | 9/16 |
| BJ1FSM-08-08 | 1/2 | 3/4 |
| BJ1FSM-12-12 | 3/4 | 1 1/16 |
| BJ1FSM-16-16 | 1 | 1 5/16 |

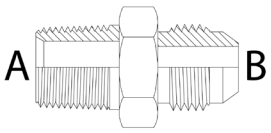
## BJ1M — BSPT Male X JIC Male




| Part # | BSPT M | JIC M |
|---|---|---|
| BJ1M-02-03 | 1/8 | 3/8 |
| BJ1M-02-04 | 1/8 | 7/16 |
| BJ1M-02-04SS* | 1/8 | 7/16 |
| BJ1L46M-02-04** | 1/8 | 7/16 |
| BJ1M-02-05 | 1/8 | 1/2 |
| BJ1M-02-06 | 1/8 | 9/16 |
| BJ1M-02-06SS* | 1/8 | 9/16 |
| BJ1M-04-04 | 1/4 | 7/16 |
| BJ1M-04-04SS* | 1/4 | 7/16 |
| BJ1L46M-04-04** | 1/4 | 7/16 |
| BJ1M-04-05 | 1/4 | 1/2 |
| BJ1M-04-06 | 1/4 | 9/16 |
| BJ1M-04-06SS* | 1/4 | 9/16 |
| BJ1M-04-08 | 1/4 | 3/4 |
| BJ1M-04-08SS* | 1/4 | 3/4 |
| BJ1M-04-10 | 1/4 | 7/8 |
| BJ1M-06-04 | 3/8 | 7/16 |
| BJ1M-06-05 | 3/8 | 1/2 |
| BJ1M-06-06 | 3/8 | 9/16 |
| BJ1M-06-08 | 3/8 | 3/4 |
| BJ1M-06-08SS* | 3/8 | 3/4 |
| BJ1M-06-10 | 3/8 | 7/8 |
| BJ1M-06-12 | 3/8 | 1 1/16 |
| BJ1M-08-04 | 1/2 | 7/16 |
| BJ1M-08-06 | 1/2 | 9/16 |
| BJ1M-08-06SS* | 1/2 | 9/16 |
| BJ1M-08-08 | 1/2 | 3/4 |
| BJ1M-08-08SS* | 1/2 | 3/4 |
| BJ1M-08-10 | 1/2 | 7/8 |
| BJ1M-08-16 | 1/2 | 1 5/16 |

* SS = Stainless Steel
**Long Drop L= Length eg; BJ1L46M-02-04 is 46mm long

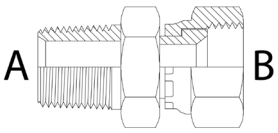
## BJ1M Cont... | BSPT Male X JIC Male




| Part # | BSPT M | JIC M |
|---|---|---|
| BJ1M-08-10SS* | 1/2 | 7/8 |
| BJ1M-08-12 | 1/2 | 1 1/16 |
| BJ1M-12-06 | 3/4 | 9/16 |
| BJ1M-12-08 | 3/4 | 3/4 |
| BJ1M-12-10 | 3/4 | 7/8 |
| BJ1M-12-10SS* | 3/4 | 7/8 |
| BJ1M-12-12 | 3/4 | 1 1/16 |
| BJ1M-12-12SS* | 3/4 | 1 1/16 |
| BJ1M-12-14 | 3/4 | 1 3/16 |
| BJ1M-12-16 | 3/4 | 1 5/16 |
| BJ1M-12-16SS* | 3/4 | 1 5/16 |
| BJ1M-16-08 | 1 | 3/4 |
| BJ1M-16-10 | 1 | 7/8 |
| BJ1M-16-12 | 1 | 1 1/16 |
| BJ1M-16-12SS* | 1 | 1 1/16 |
| BJ1M-16-14 | 1 | 1 3/16 |
| BJ1M-16-16 | 1 | 1 5/16 |
| BJ1M-16-16SS* | 1 | 1 5/16 |
| BJ1M-16-20 | 1 | 1 5/8 |
| BJ1M-16-20SS* | 1 | 1 5/8 |
| BJ1M-20-08SS* | 1 1/4 | 3/4 |
| BJ1M-20-12 | 1 1/4 | 1 1/16 |
| BJ1M-20-16 | 1 1/4 | 1 5/16 |
| BJ1M-20-20 | 1 1/4 | 1 5/8 |
| BJ1M-20-24 | 1 1/4 | 1 7/8 |
| BJ1M-24-12 | 1 1/2 | 1 1/16 |
| BJ1M-24-12SS* | 1 1/2 | 1 1/16 |
| BJ1M-24-16 | 1 1/2 | 1 5/16 |
| BJ1M-24-20 | 1 1/2 | 1 5/8 |
| BJ1M-24-24 | 1 1/2 | 1 7/8 |
| BJ1M-24-32 | 1 1/2 | 2 1/2 |
| BJ1M-32-20 | 2 | 1 5/8 |
| BJ1M-32-24 | 2 | 1 7/8 |
| BJ1M-32-32 | 2 | 2 1/2 |

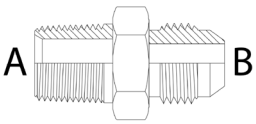
* SS = Stainless Steel
**Long Drop L= Length eg; BJ1L46M-02-04 is 46mm long

## BJ1MFS — BSPT Male X JIC Female Swivel



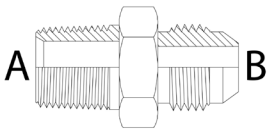

| Part # | BSPT M | JIC F/S |
|---|---|---|
| BJ1MFS-02-04 | 1/8 | 7/16 |
| BJ1MFS-02-06 | 1/8 | 9/16 |
| BJ1MFS-04-04 | 1/4 | 7/16 |
| BJ1MFS-04-05 | 1/4 | 1/2 |
| BJ1MFS-04-06 | 1/4 | 9/16 |
| BJ1MFS-04-08 | 1/4 | 3/4 |
| BJ1MFS-06-06 | 3/8 | 9/16 |
| BJ1MFS-06-08 | 3/8 | 3/4 |
| BJ1MFS-06-10 | 3/8 | 7/8 |
| BJ1MFS-08-06 | 1/2 | 9/16 |
| BJ1MFS-08-08 | 1/2 | 3/4 |
| BJ1MFS-08-10 | 1/2 | 7/8 |
| BJ1MFS-08-12 | 1/2 | 1 1/16 |
| BJ1MFS-12-10 | 3/4 | 7/8 |
| BJ1MFS-12-12 | 3/4 | 1 1/16 |
| BJ1MFS-12-16 | 3/4 | 1 5/16 |
| BJ1MFS-16-12 | 1 | 1 1/16 |
| BJ1MFS-16-16 | 1 | 1 5/16 |
| BJ1MFS-20-20 | 1 1/4 | 1 5/8 |
| BJ1MFS-24-24 | 1 1/2 | 1 7/8 |
| BJ1MFS-32-32 | 2 | 2 1/2 |

## BJIS1M — BSPT Male X JIS (BSPP) Male



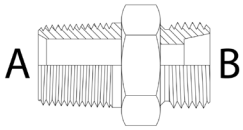

| Part # | BSPT M | JIS (BSPP) M |
|---|---|---|
| BJIS1M-04-04 | 1/4 | 1/4 |

## BK1M — BSPT Male X Komatsu JIS (Metric) Male



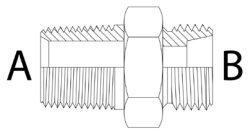

| Part # | BSPT M | JIS (Komatsu) M |
|---|---|---|
| BK1M-04-12M | 1/4 | M12X1.5 |
| BK1M-04-14M | 1/4 | M14X1.5 |
| BK1M-06-14M | 3/8 | M14X1.5 |
| BK1M-06-16M | 3/8 | M16X1.5 |
| BK1M-06-18M | 3/8 | M18X1.5 |
| BK1M-06-20M | 3/8 | M20X1.5 |
| BK1M-06-22M | 3/8 | M22X1.5 |
| BK1M-08-18M | 1/2 | M18X1.5 |
| BK1M-08-22M | 1/2 | M22X1.5 |
| BK1M-08-24M | 1/2 | M24X1.5 |
| BK1M-12-24M | 3/4 | M24X1.5 |
| BK1M-12-30M | 3/4 | M30X1.5 |
| BK1M-16-33M | 1 | M33X1.5 |

## BMH1M — BSPT Male X Metric Heavy (S) Male



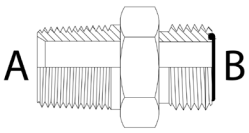

| Part # | BSPT M | Metric Heavy M |
|---|---|---|
| BMH1M-04-14M | 1/4 | M14X1.5 |
| BMH1M-04-16M | 1/4 | M16X1.5 |
| BMH1M-04-18M | 1/4 | M18X1.5 |
| BMH1M-06-18M | 3/8 | M18X1.5 |
| BMH1M-06-20M | 3/8 | M20X1.5 |
| BMH1M-06-22M | 3/8 | M22X1.5 |
| BMH1M-06-24M | 3/8 | M24X1.5 |
| BMH1M-08-16M | 1/2 | M16X1.5 |
| BMH1M-08-18M | 1/2 | M18X1.5 |
| BMH1M-08-20M | 1/2 | M20X1.5 |
| BMH1M-08-22M | 1/2 | M22X1.5 |
| BMH1M-08-24M | 1/2 | M24X1.5 |
| BMH1M-08-30M | 1/2 | M30X2 |
| BMH1M-12-24M | 3/4 | M24X1.5 |
| BMH1M-12-30M | 3/4 | M30X2 |
| BMH1M-12-36M | 3/4 | M36X2 |
| BMH1M-16-36M | 1 | M36X2 |
| BMH1M-16-42M | 1 | M42X2 |
| BMH1M-20-42M | 1 1/4 | M42X2 |
| BMH1M-24-52M | 1 1/2 | M52X2 |

## BML1M — BSPT Male X Metric Light (L) Male



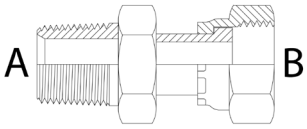

| Part # | BSPT M | Metric Light M |
|---|---|---|
| BML1M-02-12M | 1/8 | M12X1.5 |
| BML1M-02-14M | 1/8 | M14X1.5 |
| BML1M-02-16M | 1/8 | M16X1.5 |
| BML1M-04-12M | 1/4 | M12X1.5 |
| BML1M-04-14M | 1/4 | M14X1.5 |
| BML1M-04-16M | 1/4 | M16X1.5 |
| BML1M-04-18M | 1/4 | M18X1.5 |
| BML1M-06-14M | 3/8 | M14X1.5 |
| BML1M-06-16M | 3/8 | M16X1.5 |
| BML1M-06-18M | 3/8 | M18X1.5 |
| BML1M-06-22M | 3/8 | M22X1.5 |
| BML1M-08-14M | 1/2 | M14X1.5 |
| BML1M-08-16M | 1/2 | M16X1.5 |
| BML1M-08-18M | 1/2 | M18X1.5 |
| BML1M-08-22M | 1/2 | M22X1.5 |
| BML1M-08-26M | 1/2 | M26X1.5 |
| BML1M-08-30M | 1/2 | M30X2 |
| BML1M-12-22M | 3/4 | M22X1.5 |
| BML1M-12-26M | 3/4 | M26X1.5 |
| BML1M-12-30M | 3/4 | M30X2 |
| BML1M-16-36M | 1 | M36X2 |
| BML1M-20-45M | 1 1/4 | M45X2 |
| BML1M-24-52M | 1 1/2 | M42X2 |

## BORS1M — BSPT Male X ORFS Male



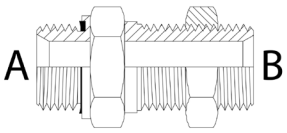

| Part # | BSPT M | ORFS M |
|---|---|---|
| BORS1M-02-04 | 1/8 | 9/16 |
| BORS1M-04-04 | 1/4 | 9/16 |
| BORS1M-04-06 | 1/4 | 11/16 |
| BORS1M-06-06 | 3/8 | 11/16 |
| BORS1M-06-08 | 3/8 | 13/16 |
| BORS1M-08-08 | 1/2 | 13/16 |
| BORS1M-08-10 | 1/2 | 1 |
| BORS1M-08-12 | 1/2 | 1 3/16 |
| BORS1M-12-12 | 3/4 | 1 3/16 |
| BORS1M-12-16 | 3/4 | 1 7/16 |
| BORS1M-16-12 | 1 | 1 3/16 |
| BORS1M-16-16 | 1 | 1 7/16 |
| BORS1M-20-20 | 1 1/4 | 1 11/16 |

## BORS1MFS — BSPT Male X ORFS Female Swivel




| Part # | BSPT M | ORFS F/S |
|---|---|---|
| BORS1MFS-04-04 | 1/4 | 9/16 |
| BORS1MFS-06-06 | 3/8 | 11/16 |
| BORS1MFS-08-08 | 1/2 | 13/16 |
| BORS1MFS-12-12 | 3/4 | 1 3/16 |
| BORS1MFS-16-16 | 1 | 1 7/16 |

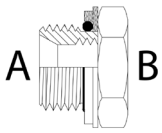
## BP10M — BSPP Male X BSPP Male Bulkhead




| Part # | BSPP M | BSPP BH |
|---|---|---|
| BP10M-02-02 | 1/8 | 1/8 |
| BP10M-04-04 | 1/4 | 1/4 |
| BP10M-04-04SS* | 1/4 | 1/4 |
| BP10M-06-06 | 3/8 | 3/8 |
| BP10M-06-06SS* | 3/8 | 3/8 |
| BP10M-08-08 | 1/2 | 1/2 |
| BP10M-12-12 | 3/4 | 3/4 |
| BP10M-16-16 | 1 | 1 |
| BP10M-16-16SS* | 1 | 1 |
| BP10M-20-20 | 1 1/4 | 1 1/4 |
| BP10M-24-24 | 1 1/2 | 1 1/2 |
| BP10M-32-32 | 2 | 2 |

* SS = Stainless Steel

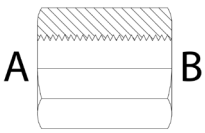
## BP1B — BSPP Male X BSPP Female Red Bush




| Part # | BSPP M | BSPP F |
|---|---|---|
| BP1B-04-02 | 1/4 | 1/8 |
| BP1B-06-02 | 3/8 | 1/8 |
| BP1B-06-04 | 3/8 | 1/4 |
| BP1B-08-04 | 1/2 | 1/4 |
| BP1B-08-06 | 1/2 | 3/8 |
| BP1B-12-04 | 3/4 | 1/4 |
| BP1B-12-06 | 3/4 | 3/8 |
| BP1B-12-08 | 3/4 | 1/2 |
| BP1B-12-08SS* | 3/4 | 1/2 |
| BP1B-16-04 | 1 | 1/4 |
| BP1B-16-06 | 1 | 3/8 |
| BP1B-16-08 | 1 | 1/2 |
| BP1B-16-12 | 1 | 3/4 |
| BP1B-16-12SS* | 1 | 3/4 |
| BP1B-20-08 | 1 1/4 | 1/2 |
| BP1B-20-12 | 1 1/4 | 3/4 |
| BP1B-20-12SS* | 1 1/4 | 3/4 |
| BP1B-20-16 | 1 1/4 | 1 |
| BP1B-24-12 | 1 1/2 | 3/4 |
| BP1B-24-16 | 1 1/2 | 1 |
| BP1B-24-20 | 1 1/2 | 1 1/4 |
| BP1B-32-08 | 2 | 1/2 |
| BP1B-32-12 | 2 | 3/4 |
| BP1B-32-16 | 2 | 1 |
| BP1B-32-24 | 2 | 1 1/2 |

* SS = Stainless Steel

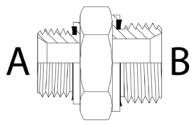
## BP1F — BSPP Female X BSPP Female

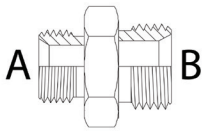



| Part # | BSPP F | BSPP F |
|---|---|---|
| BP1F-02-02 | 1/8 | 1/8 |
| BP1F-04-04 | 1/4 | 1/4 |
| BP1F-04-04SS* | 1/4 | 1/4 |
| BP1F-06-06 | 3/8 | 3/8 |
| BP1F-08-08 | 1/2 | 1/2 |
| BP1F-08-08SS* | 1/2 | 1/2 |
| BP1F-12-12 | 3/4 | 3/4 |
| BP1F-16-16 | 1 | 1 |
| BP1F-20-20 | 1 1/4 | 1 1/4 |
| BP1F-24-24 | 1 1/2 | 1 1/2 |

* SS = Stainless Steel

## BP1M — BSPP Male X BSPP Male

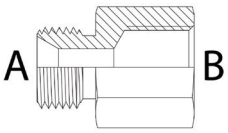



| Part # | BSPP M | BSPP M |
|---|---|---|
| BP1M-02-02 | 1/8 | 1/8 |
| BP1M-02-04 | 1/8 | 1/4 |
| BP1M-04-04 | 1/4 | 1/4 |
| BP1M-04-04SS* | 1/4 | 1/4 |
| BP1M-04-06 | 1/4 | 3/8 |
| BP1M-04-08 | 1/4 | 1/2 |
| BP1M-04-12 | 1/4 | 3/4 |
| BP1M-06-06 | 3/8 | 3/8 |
| BP1M-06-06SS* | 3/8 | 3/8 |
| BP1M-06-08 | 3/8 | 1/2 |
| BP1M-06-08SS* | 3/8 | 1/2 |
| BP1M-06-12 | 3/8 | 3/4 |
| BP1M-08-08 | 1/2 | 1/2 |
| BP1M-08-08SS* | 1/2 | 1/2 |
| BP1M-08-12 | 1/2 | 3/4 |
| BP1M-08-16 | 1/2 | 1 |
| BP1M-10-10 | 5/8 | 5/8 |
| BP1M-12-12 | 3/4 | 3/4 |
| BP1M-12-16 | 3/4 | 1 |
| BP1M-12-16SS* | 3/4 | 1 |
| BP1M-12-20 | 3/4 | 1 1/4 |
| BP1M-12-20SS* | 3/4 | 1 1/4 |
| BP1M-16-16 | 1 | 1 |
| BP1M-16-20 | 1 | 1 1/4 |
| BP1M-20-20 | 1 1/4 | 1 1/4 |
| BP1M-20-24 | 1 1/4 | 1 1/2 |
| BP1M-20-32 | 1 1/4 | 2 |
| BP1M-24-24 | 1 1/2 | 1 1/2 |
| BP1M-24-32 | 1 1/2 | 2 |
| BP1M-32-32 | 2 | 2 |

* SS = Stainless Steel

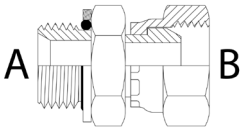
## BP1MF — BSPP Male X BSPP Female




| Part # | BSPP M | BSPP F |
|---|---|---|
| BP1MF-04-04 | 1/4 | 1/4 |
| BP1MF-04-06SS* | 1/4 | 3/8 |
| BP1MF-04-08 | 1/4 | 1/2 |
| BP1MF-06-04SS* | 3/8 | 1/4 |
| BP1MF-06-06 | 3/8 | 3/8 |
| BP1MF-06-08 | 3/8 | 1/2 |
| BP1MF-08-08 | 1/2 | 1/2 |
| BP1MF-08-12 | 1/2 | 3/4 |
| BP1MF-12-16 | 3/4 | 1 |
| BP1MF-12-16SS* | 3/4 | 1 |
| BP1MF-16-16 | 1 | 1 |
| BP1MF-16-20 | 1 | 1 1/4 |
| BP1MF-16-20SS* | 1 | 1 1/4 |
| BP1MF-20-20 | 1 1/4 | 1 1/4 |

* SS = Stainless Steel

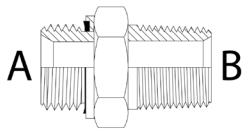
## BP1MFS — BSPP Male X BSPP Female Swivel




| Part # | BSPP M | BSPP F/S |
|---|---|---|
| BP1MFS-02-02 | 1/8 | 1/8 |
| BP1MFS-04-04 | 1/4 | 1/4 |
| BP1MFS-04-04SS* | 1/4 | 1/4 |
| BP1MFS-04-06 | 1/4 | 3/8 |
| BP1MFS-06-04 | 3/8 | 1/4 |
| BP1MFS-06-06 | 3/8 | 3/8 |
| BP1MFS-06-08 | 3/8 | 1/2 |
| BP1MFS-08-06 | 1/2 | 3/8 |
| BP1MFS-08-08 | 1/2 | 1/2 |
| BP1MFS-08-12 | 1/2 | 3/4 |
| BP1MFS-12-08 | 3/4 | 1/2 |
| BP1MFS-12-12 | 3/4 | 3/4 |
| BP1MFS-12-16 | 3/4 | 1 |
| BP1MFS-16-12 | 1 | 3/4 |
| BP1MFS-16-16 | 1 | 1 |
| BP1MFS-16-20 | 1 | 1 1/4 |
| BP1MFS-20-20 | 1 1/4 | 1 1/4 |
| BP1MFS-24-24 | 1 1/2 | 1 1/2 |
| BP1MFS-32-32 | 2 | 2 |

* SS = Stainless Steel

## BPB1M — BSPP Male X BSPT Male



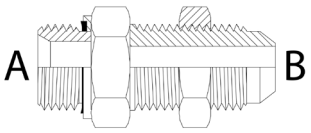

| Part # | BSPP M | BSPT M |
|---|---|---|
| BPB1M-02-02 | 1/8 | 1/8 |
| BPB1M-02-04 | 1/8 | 1/4 |
| BPB1M-04-02 | 1/4 | 1/8 |
| BPB1M-04-02SS* | 1/4 | 1/8 |
| BPB1M-04-04 | 1/4 | 1/4 |
| BPB1M-04-06 | 1/4 | 3/8 |
| BPB1M-04-08 | 1/4 | 1/2 |
| BPB1M-06-04 | 3/8 | 1/4 |
| BPB1M-06-06 | 3/8 | 3/8 |
| BPB1M-06-06SS* | 3/8 | 3/8 |
| BPB1M-06-08 | 3/8 | 1/2 |
| BPB1M-06-12 | 3/8 | 3/4 |
| BPB1M-08-04 | 1/2 | 1/4 |
| BPB1M-08-06 | 1/2 | 3/8 |
| BPB1M-08-08 | 1/2 | 1/2 |
| BPB1M-08-08SS* | 1/2 | 1/2 |
| BPB1M-08-12 | 1/2 | 3/4 |
| BPB1M-08-12SS* | 1/2 | 3/4 |
| BPB1M-08-16 | 1/2 | 1 |
| BPB1M-12-06 | 3/4 | 3/8 |
| BPB1M-12-08 | 3/4 | 1/2 |
| BPB1M-12-12 | 3/4 | 3/4 |
| BPB1M-12-12SS* | 3/4 | 3/4 |
| BPB1M-12-16 | 3/4 | 1 |
| BPB1M-16-08 | 1 | 1/2 |
| BPB1M-16-12 | 1 | 3/4 |
| BPB1M-16-16 | 1 | 1 |
| BPB1M-16-20 | 1 | 1 1/4 |
| BPB1M-16-24 | 1 | 1 1/2 |
| BPB1M-20-12 | 1 1/4 | 3/4 |
| BPB1M-20-16 | 1 1/4 | 1 |
| BPB1M-20-20 | 1 1/4 | 1 1/4 |
| BPB1M-20-24 | 1 1/4 | 1 1/2 |
| BPB1M-24-20 | 1 1/2 | 1 1/4 |
| BPB1M-24-24 | 1 1/2 | 1 1/2 |
| BPB1M-24-32 | 1 1/2 | 2 |
| BPB1M-32-32 | 2 | 2 |

* SS = Stainless Steel

# Adaptors

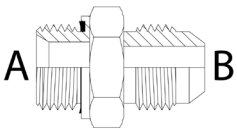


## BPJ10M — BSPP Male X JIC Male Bulkhead




| Part # | BSPP M | JIC BH |
|---|---|---|
| BPJ10M-04-04 | 1/4 | 7/16 |
| BPJ10M-06-06 | 3/8 | 9/16 |
| BPJ10M-06-08 | 3/8 | 3/4 |
| BPJ10M-08-08 | 1/2 | 3/4 |
| BPJ10M-08-10 | 1/2 | 7/8 |
| BPJ10M-12-12 | 3/4 | 1 1/16 |
| BPJ10M-16-16 | 1 | 1 5/16 |

## BPJ1M — BSPP Male X JIC Male



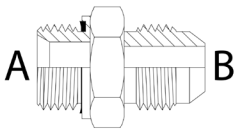

| Part # | BSPP M | JIC M |
|---|---|---|
| BPJ1M-02-04 | 1/8 | 7/16 |
| BPJ1M-02-04SS* | 1/8 | 7/16 |
| BPJ1M-02-05 | 1/8 | 1/2 |
| BPJ1M-02-06 | 1/8 | 9/16 |
| BPJ1M-04-04 | 1/4 | 7/16 |
| BPJ1M-04-04SS* | 1/4 | 7/16 |
| BPJ1M-04-05 | 1/4 | 1/2 |
| BPJ1M-04-06 | 1/4 | 9/16 |
| BPJ1M-04-08 | 1/4 | 3/4 |
| BPJ1M-04-12 | 1/4 | 1 1/16 |
| BPJ1M-06-04 | 3/8 | 7/16 |
| BPJ1M-06-04SS* | 3/8 | 7/16 |
| BPJ1M-06-05 | 3/8 | 1/2 |
| BPJ1M-06-06 | 3/8 | 9/16 |
| BPJ1M-06-06SS* | 3/8 | 9/16 |
| BPJ1M-06-08 | 3/8 | 3/4 |
| BPJ1M-06-08SS* | 3/8 | 3/4 |
| BPJ1M-06-10 | 3/8 | 7/8 |
| BPJ1M-06-12 | 3/8 | 1 1/16 |
| BPJ1M-08-04 | 1/2 | 7/16 |
| BPJ1M-08-06 | 1/2 | 9/16 |
| BPJ1M-08-06SS* | 1/2 | 9/16 |
| BPJ1M-08-08 | 1/2 | 3/4 |
| BPJ1M-08-08SS* | 1/2 | 3/4 |
| BPJ1M-08-10 | 1/2 | 7/8 |
| BPJ1M-08-10SS* | 1/2 | 7/8 |
| BPJ1M-08-12 | 1/2 | 1 1/16 |
| BPJ1M-08-12SS* | 1/2 | 1 1/16 |
| BPJ1M-08-16 | 1/2 | 1 5/16 |

* SS = Stainless Steel



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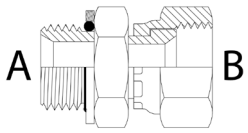
## BPJ1M Cont... | BSPP Male X JIC Male




| Part # | BSPP M | JIC M |
|---|---|---|
| BPJ1M-12-04 | 3/4 | 7/16 |
| BPJ1M-12-06 | 3/4 | 9/16 |
| BPJ1M-12-08 | 3/4 | 3/4 |
| BPJ1M-12-08SS* | 3/4 | 3/4 |
| BPJ1M-12-10 | 3/4 | 7/8 |
| BPJ1M-12-12 | 3/4 | 1 1/16 |
| BPJ1M-12-12SS* | 3/4 | 1 1/16 |
| BPJ1M-12-16 | 3/4 | 1 5/16 |
| BPJ1M-12-16SS* | 3/4 | 1 5/16 |
| BPJ1M-16-08 | 1 | 3/4 |
| BPJ1M-16-10 | 1 | 7/8 |
| BPJ1M-16-12 | 1 | 1 1/16 |
| BPJ1M-16-12SS* | 1 | 1 1/16 |
| BPJ1M-16-16 | 1 | 1 5/16 |
| BPJ1M-16-16SS* | 1 | 1 5/16 |
| BPJ1M-16-20 | 1 | 1 5/8 |
| BPJ1M-16-24 | 1 | 1 7/8 |
| BPJ1M-20-08 | 1 1/4 | 3/4 |
| BPJ1M-20-12 | 1 1/4 | 1 1/16 |
| BPJ1M-20-16 | 1 1/4 | 1 5/16 |
| BPJ1M-20-16SS* | 1 1/4 | 1 5/16 |
| BPJ1M-20-20 | 1 1/4 | 1 5/8 |
| BPJ1M-20-24 | 1 1/4 | 1 7/8 |
| BPJ1M-24-16 | 1 1/2 | 1 5/16 |
| BPJ1M-24-20 | 1 1/2 | 1 5/8 |
| BPJ1M-24-24 | 1 1/2 | 1 7/8 |
| BPJ1M-24-32 | 1 1/2 | 2 1/2 |
| BPJ1M-32-16 | 2 | 1 5/16 |
| BPJ1M-32-20 | 2 | 1 5/8 |
| BPJ1M-32-24 | 2 | 1 7/8 |
| BPJ1M-32-32 | 2 | 2 1/2 |

* SS = Stainless Steel

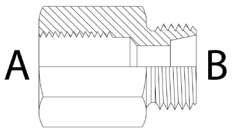
## BPJ1MFS — BSPP Male X JIC Female Swivel




| Part # | BSPP M | JIC F/S |
|---|---|---|
| BPJ1MFS-02-04 | 1/8 | 7/16 |
| BPJ1MFS-04-04 | 1/4 | 7/16 |
| BPJ1MFS-04-04SS* | 1/4 | 7/16 |
| BPJ1MFS-04-06 | 1/4 | 9/16 |
| BPJ1MFS-04-06SS* | 1/4 | 9/16 |
| BPJ1MFS-04-08 | 1/4 | 3/4 |
| BPJ1MFS-06-04 | 3/8 | 7/16 |
| BPJ1MFS-06-06 | 3/8 | 9/16 |
| BPJ1MFS-06-08 | 3/8 | 3/4 |
| BPJ1MFS-06-10 | 3/8 | 7/8 |
| BPJ1MFS-08-06 | 1/2 | 9/16 |
| BPJ1MFS-08-08 | 1/2 | 3/4 |
| BPJ1MFS-08-08SS* | 1/2 | 3/4 |
| BPJ1MFS-08-10 | 1/2 | 7/8 |
| BPJ1MFS-08-12 | 1/2 | 1 1/16 |
| BPJ1MFS-12-08 | 3/4 | 3/4 |
| BPJ1MFS-12-08SS* | 3/4 | 3/4 |
| BPJ1MFS-12-10 | 3/4 | 7/8 |
| BPJ1MFS-12-12 | 3/4 | 1 1/16 |
| BPJ1MFS-12-16 | 3/4 | 1 5/16 |
| BPJ1MFS-16-12 | 1 | 1 1/16 |
| BPJ1MFS-16-16 | 1 | 1 5/16 |
| BPJ1MFS-20-20 | 1 1/4 | 1 5/8 |
| BPJ1MFS-24-24 | 1 1/2 | 1 7/8 |
| BPJ1MFS-32-24 | 2 | 1 7/8 |
| BPJ1MFS-32-32 | 2 | 2 1/2 |

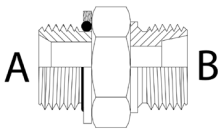
* SS = Stainless Steel

## BPMH1FM — BSPP Female X Metric Heavy (S) Male



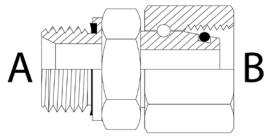

| Part # | BSPP F | Metric Heavy M |
|---|---|---|
| BPMH1FM-04-14M | 1/4 | M14X1.5 |
| BPMH1FM-04-16M | 1/4 | M16X1.5 |
| BPMH1FM-06-18M | 3/8 | M18X1.5 |
| BPMH1FM-06-20M | 3/8 | M20X1.5 |
| BPMH1FM-08-22M | 1/2 | M22X1.5 |
| BPMH1FM-08-24M | 1/2 | M24X1.5 |
| BPMH1FM-12-30M | 3/4 | M30X2 |
| BPMH1FM-16-36M | 1 | M36X2 |
| BPMH1FM-20-42M | 1 1/4 | M42X2 |
| BPMH1FM-24-52M | 1 1/2 | M52X2 |

## BPMH1M — BSPP Male X Metric Heavy (S) Male



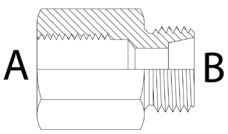

| Part # | BSPP M | Metric Heavy M |
|---|---|---|
| BPMH1M-04-14M | 1/4 | M14X1.5 |
| BPMH1M-04-16M | 1/4 | M16X1.5 |
| BPMH1M-04-18M | 1/4 | M18X1.5 |
| BPMH1M-04-20M | 1/4 | M20X1.5 |
| BPMH1M-06-16M | 3/8 | M16X1.5 |
| BPMH1M-06-18M | 3/8 | M18X1.5 |
| BPMH1M-06-20M | 3/8 | M20X1.5 |
| BPMH1M-06-22M | 3/8 | M22X1.5 |
| BPMH1M-06-24M | 3/8 | M24X1.5 |
| BPMH1M-08-18M | 1/2 | M18X1.5 |
| BPMH1M-08-20M | 1/2 | M20X1.5 |
| BPMH1M-08-22M | 1/2 | M22X1.5 |
| BPMH1M-08-24M | 1/2 | M24X1.5 |
| BPMH1M-08-30M | 1/2 | M30X2 |
| BPMH1M-12-24M | 3/4 | M24X1.5 |
| BPMH1M-12-30M | 3/4 | M30X2 |
| BPMH1M-12-36M | 3/4 | M36X2 |
| BPMH1M-12-42M | 3/4 | M42X2 |
| BPMH1M-16-30M | 1 | M30X2 |
| BPMH1M-16-36M | 1 | M36X2 |
| BPMH1M-16-42M | 1 | M42X2 |
| BPMH1M-20-42M | 1 1/4 | M42X2 |
| BPMH1M-20-52M | 1 1/4 | M52X2 |
| BPMH1M-24-52M | 1 1/2 | M52X2 |

## BPMH1MFS — BSPP Male X Metric Heavy (S) Female Swivel



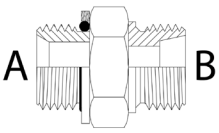

| Part # | BSPP M | Metric Heavy F/S |
|---|---|---|
| BPMH1MFS-02-14M | 1/8 | M14X1.5 |
| BPMH1MFS-04-14M | 1/4 | M14X1.5 |
| BPMH1MFS-04-16M | 1/4 | M16X1.5 |
| BPMH1MFS-04-18M | 1/4 | M18X1.5 |
| BPMH1MFS-04-20M | 1/4 | M20X1.5 |
| BPMH1MFS-06-16M | 3/8 | M16X1.5 |
| BPMH1MFS-06-18M | 3/8 | M18X1.5 |
| BPMH1MFS-06-20M | 3/8 | M20X1.5 |
| BPMH1MFS-06-22M | 3/8 | M22X1.5 |
| BPMH1MFS-08-18M | 1/2 | M18X1.5 |
| BPMH1MFS-08-20M | 1/2 | M20X1.5 |
| BPMH1MFS-08-22M | 1/2 | M22X1.5 |
| BPMH1MFS-08-24M | 1/2 | M24X1.5 |
| BPMH1MFS-08-30M | 1/2 | M30X2 |
| BPMH1MFS-08-36M | 1/2 | M36X2 |
| BPMH1MFS-12-24M | 3/4 | M24X1.5 |
| BPMH1MFS-12-30M | 3/4 | M30X2 |
| BPMH1MFS-12-36M | 3/4 | M36X2 |
| BPMH1MFS-16-30M | 1 | M30X2 |
| BPMH1MFS-16-36M | 1 | M36X2 |
| BPMH1MFS-16-42M | 1 | M42X2 |
| BPMH1MFS-20-36M | 1 1/4 | M36X2 |
| BPMH1MFS-20-42M | 1 1/4 | M42X2 |
| BPMH1MFS-20-52M | 1 1/4 | M52X2 |
| BPMH1MFS-24-52M | 1 1/2 | M52X2 |

## BPML1FM — BSPP Female X Metric Light (L) Male



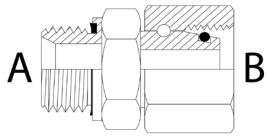

| Part # | BSPP F | Metric Light M |
|---|---|---|
| BPML1FM-02-12M | 1/8 | M12X1.5 |
| BPML1FM-04-14M | 1/4 | M14X1.5 |
| BPML1FM-04-16M | 1/4 | M16X1.5 |
| BPML1FM-06-18M | 3/8 | M18X1.5 |
| BPML1FM-08-22M | 1/2 | M22X1.5 |
| BPML1FM-08-26M | 1/2 | M26X1.5 |
| BPML1FM-12-30M | 3/4 | M30X2 |
| BPML1FM-16-36M | 1 | M36X2 |
| BPML1FM-20-45M | 1 1/4 | M45X2 |
| BPML1FM-24-52M | 1 1/2 | M52X2 |

## BPML1M — BSPP Male X Metric Light (L) Male




| Part # | BSPP M | Metric Light M |
|---|---|---|
| BPML1M-02-12M | 1/8 | M12X1.5 |
| BPML1M-02-14M | 1/8 | M14X1.5 |
| BPML1M-02-16M | 1/8 | M16X1.5 |
| BPML1M-04-12M | 1/4 | M12X1.5 |
| BPML1M-04-14M | 1/4 | M14X1.5 |
| BPML1M-04-16M | 1/4 | M16X1.5 |
| BPML1M-04-18M | 1/4 | M18X1.5 |
| BPML1M-06-12M | 3/8 | M12X1.5 |
| BPML1M-06-14M | 3/8 | M14X1.5 |
| BPML1M-06-16M | 3/8 | M16X1.5 |
| BPML1M-06-18M | 3/8 | M18X1.5 |
| BPML1M-06-22M | 3/8 | M22X1.5 |
| BPML1M-06-26M | 3/8 | M26X1.5 |
| BPML1M-08-12M | 1/2 | M12X1.5 |
| BPML1M-08-14M | 1/2 | M14X1.5 |
| BPML1M-08-16M | 1/2 | M16X1.5 |
| BPML1M-08-18M | 1/2 | M18X1.5 |
| BPML1M-08-22M | 1/2 | M22X1.5 |
| BPML1M-08-26M | 1/2 | M26X1.5 |
| BPML1M-08-30M | 1/2 | M30X2 |
| BPML1M-08-36M | 1/2 | M36X2 |
| BPML1M-12-18M | 3/4 | M18X1.5 |
| BPML1M-12-22M | 3/4 | M22X1.5 |
| BPML1M-12-26M | 3/4 | M26X1.5 |
| BPML1M-12-30M | 3/4 | M30X2 |
| BPML1M-12-36M | 3/4 | M36X2 |
| BPML1M-16-30M | 1 | M30X2 |
| BPML1M-16-36M | 1 | M36X2 |
| BPML1M-16-45M | 1 | M45X2 |
| BPML1M-20-45M | 1 1/4 | M45X2 |
| BPML1M-20-52M | 1 1/4 | M52X2 |
| BPML1M-24-52M | 1 1/2 | M52X2 |

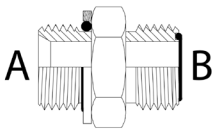
## BPML1MFS — BSPP Male X Metric Light (L) Female Swivel




| Part # | BSPP M | Metric Light F/S |
|---|---|---|
| BPML1MFS-02-12M | 1/8 | M12X1.5 |
| BPML1MFS-04-12M | 1/4 | M12X1.5 |
| BPML1MFS-04-14M | 1/4 | M14X1.5 |
| BPML1MFS-04-16M | 1/4 | M16X1.5 |
| BPML1MFS-04-18M | 1/4 | M18X1.5 |
| BPML1MFS-06-14M | 3/8 | M14X1.5 |
| BPML1MFS-06-16M | 3/8 | M16X1.5 |
| BPML1MFS-06-18M | 3/8 | M18X1.5 |
| BPML1MFS-06-22M | 3/8 | M22X1.5 |
| BPML1MFS-08-18M | 1/2 | M18X1.5 |
| BPML1MFS-08-22M | 1/2 | M22X1.5 |
| BPML1MFS-08-26M | 1/2 | M26X1.5 |
| BPML1MFS-12-22M | 3/4 | M22X1.5 |
| BPML1MFS-12-26M | 3/4 | M26X1.5 |
| BPML1MFS-12-30M | 3/4 | M30X2 |
| BPML1MFS-12-36M | 3/4 | M36X2 |
| BPML1MFS-16-36M | 1 | M36X2 |
| BPML1MFS-16-45M | 1 | M45X2 |
| BPML1MFS-20-45M | 1 1/4 | M45X2 |
| BPML1MFS-24-45M | 1 1/2 | M45X2 |
| BPML1MFS-24-52M | 1 1/2 | M52X2 |

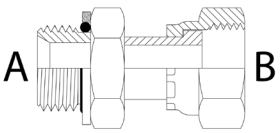

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## BPORS1M — BSPP Male X ORFS Male




| Part # | BSPP M | ORFS M |
|---|---|---|
| BPORS1M-02-04 | 1/8 | 9/16 |
| BPORS1M-04-04 | 1/4 | 9/16 |
| BPORS1M-04-06 | 1/4 | 11/16 |
| BPORS1M-04-08 | 1/4 | 13/16 |
| BPORS1M-06-04 | 3/8 | 9/16 |
| BPORS1M-06-06 | 3/8 | 11/16 |
| BPORS1M-06-08 | 3/8 | 13/16 |
| BPORS1M-08-06 | 1/2 | 11/16 |
| BPORS1M-08-08 | 1/2 | 13/16 |
| BPORS1M-08-10 | 1/2 | 1 |
| BPORS1M-08-12 | 1/2 | 1 3/16 |
| BPORS1M-12-08 | 3/4 | 13/16 |
| BPORS1M-12-10 | 3/4 | 1 |
| BPORS1M-12-12 | 3/4 | 1 3/16 |
| BPORS1M-12-16 | 3/4 | 1 7/16 |
| BPORS1M-16-12 | 1 | 1 3/16 |
| BPORS1M-16-16 | 1 | 1 7/16 |
| BPORS1M-16-20 | 1 | 1 11/16 |
| BPORS1M-20-16 | 1 1/4 | 1 7/16 |
| BPORS1M-20-20 | 1 1/4 | 1 11/16 |
| BPORS1M-24-24 | 1 1/2 | 2 |

## BPORS1MFS — BSPP Male X ORFS Female Swivel

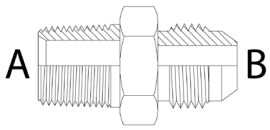



| Part # | BSPP M | ORFS F/S |
|---|---|---|
| BPORS1MFS-04-04 | 1/4 | 9/16 |
| BPORS1MFS-04-06 | 1/4 | 11/16 |
| BPORS1MFS-06-04 | 3/8 | 9/16 |
| BPORS1MFS-06-06 | 3/8 | 11/16 |
| BPORS1MFS-06-08 | 3/8 | 13/16 |
| BPORS1MFS-08-06 | 1/2 | 11/16 |
| BPORS1MFS-08-08 | 1/2 | 13/16 |
| BPORS1MFS-08-10 | 1/2 | 1 |
| BPORS1MFS-08-12 | 1/2 | 1 3/16 |
| BPORS1MFS-12-08 | 3/4 | 13/16 |
| BPORS1MFS-12-12 | 3/4 | 1 3/16 |
| BPORS1MFS-12-16 | 3/4 | 1 7/16 |
| BPORS1MFS-16-16 | 1 | 1 7/16 |
| BPORS1MFS-16-20 | 1 | 1 11/16 |
| BPORS1MFS-20-20 | 1 1/4 | 1 11/16 |

# Adaptors

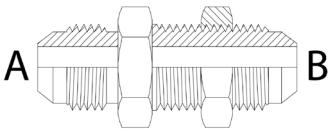


## BS1M — BSPT Male X SAE Male




| Part # | BSPT M | SAE M |
|---|---|---|
| BS1M-04-06 | 1/4 | 5/8 |
| BS1M-06-06 | 3/8 | 5/8 |

## J10M — JIC Male X JIC Male Bulkhead

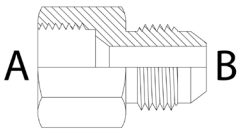



| Part # | JIC M | JIC BH |
|---|---|---|
| J10M-04-04 | 7/16 | 7/16 |
| J10M-04-04SS* | 7/16 | 7/16 |
| J10M-06-06 | 9/16 | 9/16 |
| J10M-06-06SS* | 9/16 | 9/16 |
| J10M-08-08 | 3/4 | 3/4 |
| J10M-08-08SS* | 3/4 | 3/4 |
| J10M-10-10 | 7/8 | 7/8 |
| J10M-12-12 | 1 1/16 | 1 1/16 |
| J10M-12-12SS* | 1 1/16 | 1 1/16 |
| J10M-16-16 | 1 5/16 | 1 5/16 |
| J10M-16-16SS* | 1 5/16 | 1 5/16 |
| J10M-20-20 | 1 5/8 | 1 5/8 |
| J10M-24-24 | 1 7/8 | 1 7/8 |
| J10M-32-32 | 2 1/2 | 2 1/2 |

* SS = Stainless Steel


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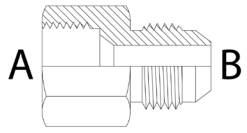
## J1FM — JIC Female X JIC Male




| Part # | JIC F | JIC M |
|---|---|---|
| J1FM-03-04 | 3/8 | 7/16 |
| J1FM-04-04-R0.4 | 7/16 | 7/16 |
| J1FM-04-04-R0.6 | 7/16 | 7/16 |
| J1FM-04-06 | 7/16 | 9/16 |
| J1FM-04-08 | 7/16 | 3/4 |
| J1FM-05-04 | 1/2 | 7/16 |
| J1FM-05-06 | 1/2 | 9/16 |
| J1FM-06-04 | 9/16 | 7/16 |
| J1FM-06-04SS* | 9/16 | 7/16 |
| J1FM-06-05 | 9/16 | 1/2 |
| J1FM-06-06 | 9/16 | 9/16 |
| J1FM-06-06-R0.6 | 9/16 | 9/16 |
| J1FM-06-06-R0.9 | 9/16 | 9/16 |
| J1FM-06-08 | 9/16 | 3/4 |
| J1FM-06-10 | 9/16 | 7/8 |
| J1FM-08-04 | 3/4 | 7/16 |
| J1FM-08-06 | 3/4 | 9/16 |
| J1FM-08-06SS* | 3/4 | 9/16 |
| J1FM-08-08-R0.4 | 3/4 | 3/4 |
| J1FM-08-08-R1.2 | 3/4 | 3/4 |
| J1FM-08-08-R2.0 | 3/4 | 3/4 |
| J1FM-08-10 | 3/4 | 7/8 |
| J1FM-08-12 | 3/4 | 1 1/16 |
| J1FM-08-16 | 3/4 | 1 5/16 |
| J1FM-10-04 | 7/8 | 7/16 |
| J1FM-10-06 | 7/8 | 9/16 |
| J1FM-10-08 | 7/8 | 3/4 |
| J1FM-10-08SS* | 7/8 | 3/4 |
| J1FM-10-12 | 7/8 | 1 1/16 |
| J1FM-10-16 | 7/8 | 1 5/16 |
| J1FM-12-04 | 1 1/16 | 7/16 |
| J1FM-12-06 | 1 1/16 | 9/16 |
| J1FM-12-08 | 1 1/16 | 3/4 |
| J1FM-12-08SS* | 1 1/16 | 3/4 |
| J1FM-12-10 | 1 1/16 | 7/8 |
| J1FM-12-16 | 1 1/16 | 1 5/16 |
| J1FM-14-12 | 1 3/16 | 1 1/16 |
| J1FM-16-04 | 1 5/16 | 7/16 |
| J1FM-16-06 | 1 5/16 | 9/16 |
| J1FM-16-08 | 1 5/16 | 3/4 |
| J1FM-16-10 | 1 5/16 | 7/8 |

* SS = Stainless Steel
R = Restricted orifice R = Bore size eg; R0.6 = 0.6mm

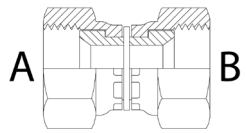
## J1FM Cont... JIC Female X JIC Male




| Part # | JIC F | JIC M |
|---|---|---|
| J1FM-16-12 | 1 5/16 | 1 1/16 |
| J1FM-16-20 | 1 5/16 | 1 5/8 |
| J1FM-16-24 | 1 5/16 | 1 7/8 |
| J1FM-20-08 | 1 5/8 | 3/4 |
| J1FM-20-12 | 1 5/8 | 1 1/16 |
| J1FM-20-16 | 1 5/8 | 1 5/16 |
| J1FM-20-24 | 1 5/8 | 1 7/8 |
| J1FM-24-12 | 1 7/8 | 1 1/16 |
| J1FM-24-16 | 1 7/8 | 1 5/16 |
| J1FM-24-20 | 1 7/8 | 1 5/8 |
| J1FM-24-32 | 1 7/8 | 2 1/2 |
| J1FM-32-20 | 2 1/2 | 1 5/8 |
| J1FM-32-24 | 2 1/2 | 1 7/8 |

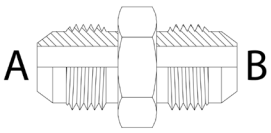
* SS = Stainless Steel
R = Restricted orifice R = Bore size eg; R0.6 = 0.6mm

## J1FS JIC Female Swivel X JIC Female Swivel




| Part # | JIC F/S | JIC F/S |
|---|---|---|
| J1FS-04-04 | 7/16 | 7/16 |
| J1FS-06-06 | 9/16 | 9/16 |
| J1FS-08-08 | 3/4 | 3/4 |
| J1FS-10-10 | 7/8 | 7/8 |
| J1FS-12-12 | 1 1/16 | 1 1/16 |
| J1FS-16-16 | 1 5/16 | 1 5/16 |
| J1FS-20-20 | 1 5/8 | 1 5/8 |
| J1FS-24-24 | 1 7/8 | 1 7/8 |

## J1M — JIC Male X JIC Male



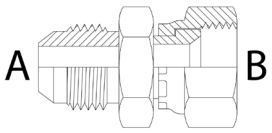

| Part # | JIC M | JIC M |
|---|---|---|
| J1M-04-04 | 7/16 | 7/16 |
| J1M-04-06 | 7/16 | 9/16 |
| J1M-04-08 | 7/16 | 3/4 |
| J1M-05-05 | 1/2 | 1/2 |
| J1M-05-06 | 1/2 | 9/16 |
| J1M-06-06 | 9/16 | 9/16 |
| J1M-06-06SS* | 9/16 | 9/16 |
| J1M-06-08 | 9/16 | 3/4 |
| J1M-06-10 | 9/16 | 7/8 |
| J1M-08-08 | 3/4 | 3/4 |
| J1M-08-08SS* | 3/4 | 3/4 |
| J1M-08-10 | 3/4 | 7/8 |
| J1M-08-12 | 3/4 | 1 1/16 |
| J1M-10-10 | 7/8 | 7/8 |
| J1M-10-12 | 7/8 | 1 1/16 |
| J1M-10-16 | 7/8 | 1 5/16 |
| J1M-12-12 | 1 1/16 | 1 1/16 |
| J1M-12-12SS* | 1 1/16 | 1 1/16 |
| J1M-12-14 | 1 1/16 | 1 3/16 |
| J1M-12-16 | 1 1/16 | 1 5/16 |
| J1M-12-16SS* | 1 1/16 | 1 5/16 |
| J1M-16-16 | 1 5/16 | 1 5/16 |
| J1M-16-16SS* | 1 5/16 | 1 5/16 |
| J1M-16-20 | 1 5/16 | 1 5/8 |
| J1M-16-24 | 1 5/16 | 1 7/8 |
| J1M-16-24SS* | 1 5/16 | 1 7/8 |
| J1M-20-20 | 1 5/8 | 1 5/8 |
| J1M-20-20SS* | 1 5/8 | 1 5/8 |
| J1M-20-24 | 1 5/8 | 1 7/8 |
| J1M-24-24 | 1 7/8 | 1 7/8 |
| J1M-24-32 | 1 7/8 | 2 1/2 |
| J1M-32-32 | 2 1/2 | 2 1/2 |

* SS = Stainless Steel

# Adaptors

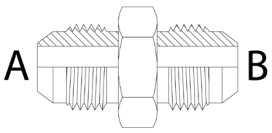


## J1MFS — JIC Male X JIC Female Swivel



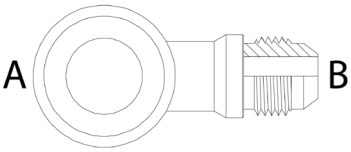

| Part # | JIC M | JIC F/S |
|---|---|---|
| J1MFS-04-04 | 7/16 | 7/16 |
| J1MFS-06-06 | 9/16 | 9/16 |
| J1MFS-06-08 | 9/16 | 3/4 |
| J1MFS-08-08 | 3/4 | 3/4 |
| J1MFS-10-10 | 7/8 | 7/8 |
| J1MFS-12-12 | 1 1/16 | 1 1/16 |
| J1MFS-16-16 | 1 5/16 | 1 5/16 |
| J1MFS-20-20 | 1 5/8 | 1 5/8 |
| J1MFS-24-24 | 1 7/8 | 1 7/8 |

## K1M — Komatsu Male X Komatsu Male




| Part # | JIS (Komatsu) M | JIS (Komatsu) M |
|---|---|---|
| K1M-12M-12M | M12X1.5 | M12X1.5 |
| K1M-14M-14M | M14X1.5 | M14X1.5 |
| K1M-16M-16M | M16X1.5 | M16X1.5 |
| K1M-18M-18M | M18X1.5 | M18X1.5 |
| K1M-24M-24M | M24X1.5 | M24X1.5 |
| K1M-30M-30M | M30X1.5 | M30X1.5 |
| K1M-33M-33M | M33X1.5 | M33X1.5 |

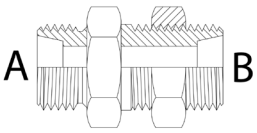
## MBANJOJ1M — Metric Banjo X JIC Male




| Part # | Banjo | JIC M |
|---|---|---|
| MBANJOJ1M-10M-04 | M10X1 | 7/16 |
| MBANJOJ1M-12M-06 | M12X1.5 | 9/16 |
| MBANJOJ1M-14M-04 | M14X1.5 | 7/16 |
| MBANJOJ1M-14M-06 | M14X1.5 | 9/16 |
| MBANJOJ1M-16M-06 | M16X1.5 | 9/16 |
| MBANJOJ1M-18M-08 | M18X1.5 | 3/4 |

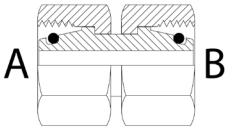

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## MH10M — Metric Heavy (S) Male X Metric Heavy (S) Male Bulkhead



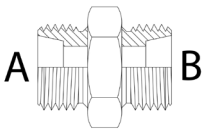

| Part # | Metric Heavy M | Metric Heavy BH |
|---|---|---|
| MH10M-14M-14M | M14X1.5 | M14X1.5 |
| MH10M-16M-16M | M16X1.5 | M16X1.5 |
| MH10M-18M-18M | M18X1.5 | M18X1.5 |
| MH10M-20M-20M | M20X1.5 | M20X1.5 |
| MH10M-22M-22M | M22X1.5 | M22X1.5 |
| MH10M-24M-24M | M24X1.5 | M24X1.5 |
| MH10M-30M-30M | M30X2 | M30X2 |
| MH10M-36M-36M | M36X2 | M36X2 |
| MH10M-42M-42M | M42X2 | M42X2 |
| MH10M-52M-52M | M52X2 | M52X2 |

## MH1FS — Metric Heavy (S) Female Swivel X Metric Heavy (S) Female Swivel



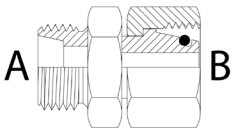

| Part # | Metric Heavy F/S | Metric Heavy F/S |
|---|---|---|
| MH1FS-14M-14M | M14X1.5 | M14X1.5 |
| MH1FS-16M-16M | M16X1.5 | M16X1.5 |
| MH1FS-18M-18M | M18X1.5 | M18X1.5 |
| MH1FS-20M-20M | M20X1.5 | M20X1.5 |
| MH1FS-22M-22M | M22X1.5 | M22X1.5 |
| MH1FS-24M-24M | M24X1.5 | M24X1.5 |
| MH1FS-30M-30M | M30X2 | M30X2 |
| MH1FS-36M-36M | M36X2 | M36X2 |
| MH1FS-42M-42M | M42X2 | M42X2 |
| MH1FS-52M-52M | M52X2 | M52X2 |

## MH1M — Metric Heavy (S) Male X Metric Heavy (S) Male



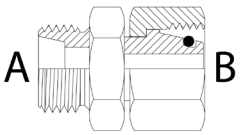

| Part # | Metric Heavy M | Metric Heavy M |
|---|---|---|
| MH1M-14M-14M | M14X1.5 | M14X1.5 |
| MH1M-14M-16M | M14X1.5 | M16X1.5 |
| MH1M-14M-18M | M14X1.5 | M18X1.5 |
| MH1M-14M-20M | M14X1.5 | M20X1.5 |
| MH1M-16M-16M | M16X1.5 | M16X1.5 |
| MH1M-16M-18M | M16X1.5 | M18X1.5 |
| MH1M-16M-20M | M16X1.5 | M20X1.5 |
| MH1M-18M-18M | M18X1.5 | M18X1.5 |
| MH1M-18M-20M | M18X1.5 | M20X1.5 |
| MH1M-18M-22M | M18X1.5 | M22X1.5 |
| MH1M-18M-24M | M18X1.5 | M24X1.5 |
| MH1M-18M-30M | M18X1.5 | M30X2 |
| MH1M-20M-20M | M20X1.5 | M20X1.5 |
| MH1M-20M-22M | M20X1.5 | M22X1.5 |
| MH1M-20M-24M | M20X1.5 | M24X1.5 |
| MH1M-20M-30M | M20X1.5 | M30X2 |
| MH1M-22M-22M | M22X1.5 | M22X1.5 |
| MH1M-22M-24M | M22X1.5 | M24X1.5 |
| MH1M-24M-24M | M24X1.5 | M24X1.5 |
| MH1M-24M-30M | M24X1.5 | M30X2 |
| MH1M-24M-36M | M24X1.5 | M36X2 |
| MH1M-30M-30M | M30X2 | M30X2 |
| MH1M-30M-36M | M30X2 | M36X2 |
| MH1M-30M-42M | M30X2 | M42X2 |
| MH1M-36M-36M | M36X2 | M36X2 |
| MH1M-36M-42M | M36X2 | M42X2 |
| MH1M-42M-42M | M42X2 | M42X2 |
| MH1M-42M-52M | M42X2 | M52X2 |
| MH1M-52M-52M | M52X2 | M52X2 |

## MH1MFS — Metric Heavy (S) Male X Metric Heavy (S) Female Swivel



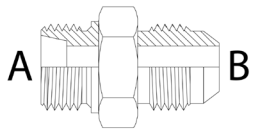

| Part # | Metric Heavy M | Metric Heavy F/S |
|---|---|---|
| MH1MFS-14M-14M | M14X1.5 | M14X1.5 |
| MH1MFS-14M-16M | M14X1.5 | M16X1.5 |
| MH1MFS-14M-18M | M14X1.5 | M18X1.5 |
| MH1MFS-14M-20M | M14X1.5 | M20X1.5 |
| MH1MFS-14M-22M | M14X1.5 | M22X1.5 |
| MH1MFS-14M-24M | M14X1.5 | M24X1.5 |
| MH1MFS-14M-30M | M14X1.5 | M30X2 |
| MH1MFS-14M-36M | M14X1.5 | M36X2 |
| MH1MFS-14M-42M | M14X1.5 | M42X2 |
| MH1MFS-14M-52M | M14X1.5 | M52X2 |
| MH1MFS-16M-16M | M16X1.5 | M16X1.5 |
| MH1MFS-16M-18M | M16X1.5 | M18X1.5 |
| MH1MFS-16M-20M | M16X1.5 | M20X1.5 |
| MH1MFS-16M-22M | M16X1.5 | M22X1.5 |
| MH1MFS-16M-24M | M16X1.5 | M24X1.5 |
| MH1MFS-16M-30M | M16X1.5 | M30X2 |
| MH1MFS-16M-36M | M16X1.5 | M36X2 |
| MH1MFS-16M-42M | M16X1.5 | M42X2 |
| MH1MFS-16M-52M | M16X1.5 | M52X2 |
| MH1MFS-18M-18M | M18X1.5 | M18X1.5 |
| MH1MFS-18M-20M | M18X1.5 | M20X1.5 |
| MH1MFS-18M-22M | M18X1.5 | M22X1.5 |
| MH1MFS-18M-24M | M18X1.5 | M24X1.5 |
| MH1MFS-18M-30M | M18X1.5 | M30X2 |
| MH1MFS-18M-36M | M18X1.5 | M36X2 |
| MH1MFS-18M-42M | M18X1.5 | M42X2 |
| MH1MFS-18M-52M | M18X1.5 | M52X2 |
| MH1MFS-20M-20M | M20X1.5 | M20X1.5 |
| MH1MFS-20M-22M | M20X1.5 | M22X1.5 |
| MH1MFS-20M-24M | M20X1.5 | M24X1.5 |
| MH1MFS-20M-30M | M20X1.5 | M30X2 |
| MH1MFS-20M-36M | M20X1.5 | M36X2 |
| MH1MFS-20M-42M | M20X1.5 | M42X2 |
| MH1MFS-20M-52M | M20X1.5 | M52X2 |
| MH1MFS-22M-22M | M22X1.5 | M22X1.5 |
| MH1MFS-22M-24M | M22X1.5 | M24X1.5 |
| MH1MFS-22M-30M | M22X1.5 | M30X2 |
| MH1MFS-22M-36M | M22X1.5 | M36X2 |
| MH1MFS-22M-42M | M22X1.5 | M42X2 |

## MH1MFS Cont... Metric Heavy (S) Male X Metric Heavy (S) Female Swivel



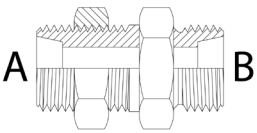

| Part # | Metric Heavy M | Metric Heavy F/S |
|---|---|---|
| MH1MFS-22M-52M | M22X1.5 | M52X2 |
| MH1MFS-24M-24M | M24X1.5 | M24X1.5 |
| MH1MFS-24M-30M | M24X1.5 | M30X2 |
| MH1MFS-24M-36M | M24X1.5 | M36X2 |
| MH1MFS-24M-42M | M24X1.5 | M42X2 |
| MH1MFS-24M-52M | M24X1.5 | M52X2 |
| MH1MFS-30M-30M | M30X2 | M30X2 |
| MH1MFS-30M-36M | M30X2 | M36X2 |
| MH1MFS-30M-42M | M30X2 | M42X2 |
| MH1MFS-30M-52M | M30X2 | M52X2 |
| MH1MFS-36M-36M | M36X2 | M36X2 |
| MH1MFS-36M-42M | M36X2 | M42X2 |
| MH1MFS-36M-52M | M36X2 | M52X2 |
| MH1MFS-42M-42M | M42X2 | M42X2 |
| MH1MFS-42M-52M | M42X2 | M52X2 |
| MH1MFS-52M-52M | M52X2 | M52X2 |

## MHJ1M — Metric Heavy (S) Male X JIC Male



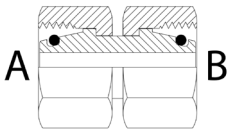

| Part # | Metric Heavy M | JIC M |
|---|---|---|
| MHJ1M-14M-04 | M14X1.5 | 7/16 |
| MHJ1M-14M-06 | M14X1.5 | 9/16 |
| MHJ1M-16M-04 | M16X1.5 | 7/16 |
| MHJ1M-16M-06 | M16X1.5 | 9/16 |
| MHJ1M-16M-08 | M16X1.5 | 3/4 |
| MHJ1M-18M-04 | M18X1.5 | 7/16 |
| MHJ1M-18M-06 | M18X1.5 | 9/16 |
| MHJ1M-18M-08 | M18X1.5 | 3/4 |
| MHJ1M-20M-06 | M20X1.5 | 9/16 |
| MHJ1M-20M-08 | M20X1.5 | 3/4 |
| MHJ1M-22M-06 | M22X1.5 | 9/16 |
| MHJ1M-22M-08 | M22X1.5 | 3/4 |
| MHJ1M-22M-10 | M22X1.5 | 7/8 |
| MHJ1M-24M-06 | M24X1.5 | 9/16 |
| MHJ1M-24M-08 | M24X1.5 | 3/4 |
| MHJ1M-24M-10 | M24X1.5 | 7/8 |
| MHJ1M-24M-12 | M24X1.5 | 1 1/16 |
| MHJ1M-30M-08 | M30X2 | 3/4 |
| MHJ1M-30M-10 | M30X2 | 7/8 |
| MHJ1M-30M-12 | M30X2 | 1 1/16 |
| MHJ1M-36M-12 | M36X2 | 1 1/16 |
| MHJ1M-36M-16 | M36X2 | 1 5/16 |
| MHJ1M-42M-16 | M42X2 | 1 5/16 |
| MHJ1M-42M-20 | M42X2 | 1 5/8 |
| MHJ1M-52M-24 | M52X2 | 1 7/8 |

## ML10M — Metric Light (L) Male X Metric Light (L) Male Bulkhead



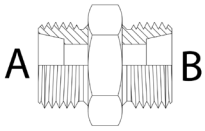

| Part # | Metric Light M | Metric Light BH |
|---|---|---|
| ML10M-12M-12M | M12X1.5 | M12X1.5 |
| ML10M-14M-14M | M14X1.5 | M14X1.5 |
| ML10M-16M-16M | M16X1.5 | M16X1.5 |
| ML10M-18M-18M | M18X1.5 | M18X1.5 |
| ML10M-22M-22M | M22X1.5 | M22X1.5 |
| ML10M-26M-26M | M26X1.5 | M26X1.5 |
| ML10M-30M-30M | M30X2 | M30X2 |
| ML10M-36M-36M | M36X2 | M36X2 |
| ML10M-45M-45M | M45X2 | M45X2 |
| ML10M-52M-52M | M52X2 | M52X2 |

## ML1FS — Metric Light (L) Female Swivel X Metric Light (L) Female Swivel



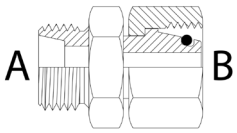

| Part # | Metric Light F/S | Metric Light F/S |
|---|---|---|
| ML1FS-12M-12M | M12X1.5 | M12X1.5 |
| ML1FS-14M-14M | M14X1.5 | M14X1.5 |
| ML1FS-14M-18M | M14X1.5 | M18X1.5 |
| ML1FS-16M-16M | M16X1.5 | M16X1.5 |
| ML1FS-18M-18M | M18X1.5 | M18X1.5 |
| ML1FS-22M-22M | M22X1.5 | M22X1.5 |
| ML1FS-22M-26M | M22X1.5 | M26X1.5 |
| ML1FS-26M-26M | M26X1.5 | M26X1.5 |
| ML1FS-26M-30M | M26X1.5 | M30X2 |
| ML1FS-26M-36M | M26X1.5 | M36X2 |
| ML1FS-30M-30M | M30X2 | M30X2 |
| ML1FS-36M-36M | M36X2 | M36X2 |
| ML1FS-45M-45M | M45X2 | M45X2 |
| ML1FS-52M-52MM | M52X2 | M52X2 |

## ML1M — Metric Light (L) Male X Metric Light (L) Male



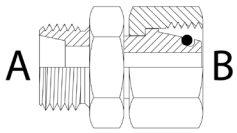

| Part # | Metric Light M | Metric Light M |
|---|---|---|
| ML1M-12M-12M | M12X1.5 | M12X1.5 |
| ML1M-12M-14M | M12X1.5 | M14X1.5 |
| ML1M-12M-16M | M12X1.5 | M16X1.5 |
| ML1M-12M-18M | M12X1.5 | M18X1.5 |
| ML1M-14M-14M | M14X1.5 | M14X1.5 |
| ML1M-14M-16M | M14X1.5 | M16X1.5 |
| ML1M-14M-18M | M14X1.5 | M18X1.5 |
| ML1M-16M-16M | M16X1.5 | M16X1.5 |
| ML1M-16M-18M | M16X1.5 | M18X1.5 |
| ML1M-16M-22M | M16X1.5 | M22X1.5 |
| ML1M-16M-26M | M16X1.5 | M26X1.5 |
| ML1M-18M-18M | M18X1.5 | M18X1.5 |
| ML1M-18M-22M | M18X1.5 | M22X1.5 |
| ML1M-18M-26M | M18X1.5 | M26X1.5 |
| ML1M-22M-22M | M22X1.5 | M22X1.5 |
| ML1M-22M-26M | M22X1.5 | M26X1.5 |
| ML1M-22M-30M | M22X1.5 | M30X2 |
| ML1M-26M-26M | M26X1.5 | M26X1.5 |
| ML1M-26M-30M | M26X1.5 | M30X2 |
| ML1M-26M-36M | M26X1.5 | M36X2 |
| ML1M-30M-30M | M30X2 | M30X2 |
| ML1M-30M-36M | M30X2 | M36X2 |
| ML1M-36M-36M | M36X2 | M36X2 |
| ML1M-36M-45M | M36X2 | M45X2 |
| ML1M-36M-52M | M36X2 | M52X2 |
| ML1M-45M-45M | M45X2 | M45X2 |
| ML1M-52M-52M | M52X2 | M52X2 |

## ML1MFS — Metric Light (L)Male X Metric Light (L) Female Swivel



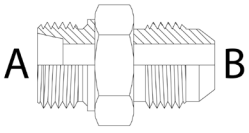

| Part # | Metric Light M | Metric Light F/S |
|---|---|---|
| ML1MFS-12M-12M | M12X1.5 | M12X1.5 |
| ML1MFS-12M-14M | M12X1.5 | M14X1.5 |
| ML1MFS-12M-16M | M12X1.5 | M16X1.5 |
| ML1MFS-12M-18M | M12X1.5 | M18X1.5 |
| ML1MFS-12M-22M | M12X1.5 | M22X1.5 |
| ML1MFS-12M-26M | M12X1.5 | M26X1.5 |
| ML1MFS-12M-30M | M12X1.5 | M30X2 |
| ML1MFS-12M-36M | M12X1.5 | M36X2 |
| ML1MFS-12M-45M | M12X1.5 | M45X2 |
| ML1MFS-12M-52M | M12X1.5 | M52X2 |
| ML1MFS-14M-14M | M14X1.5 | M14X1.5 |
| ML1MFS-14M-16M | M14X1.5 | M16X1.5 |
| ML1MFS-14M-18M | M14X1.5 | M18X1.5 |
| ML1MFS-14M-22M | M14X1.5 | M22X1.5 |
| ML1MFS-14M-26M | M14X1.5 | M26X1.5 |
| ML1MFS-14M-30M | M14X1.5 | M30X2 |
| ML1MFS-14M-36M | M14X1.5 | M36X2 |
| ML1MFS-14M-45M | M14X1.5 | M45X2 |
| ML1MFS-14M-52M | M14X1.5 | M52X2 |
| ML1MFS-16M-16M | M16X1.5 | M16X1.5 |
| ML1MFS-16M-18M | M16X1.5 | M18X1.5 |
| ML1MFS-16M-22M | M16X1.5 | M22X1.5 |
| ML1MFS-16M-26M | M16X1.5 | M26X1.5 |
| ML1MFS-16M-30M | M16X1.5 | M30X2 |
| ML1MFS-16M-36M | M16X1.5 | M36X2 |
| ML1MFS-16M-45M | M16X1.5 | M45X2 |
| ML1MFS-16M-52M | M16X1.5 | M52X2 |
| ML1MFS-18M-18M | M18X1.5 | M18X1.5 |
| ML1MFS-18M-22M | M18X1.5 | M22X1.5 |
| ML1MFS-18M-26M | M18X1.5 | M26X1.5 |
| ML1MFS-18M-30M | M18X1.5 | M30X2 |
| ML1MFS-18M-36M | M18X1.5 | M36X2 |
| ML1MFS-18M-45M | M18X1.5 | M45X2 |
| ML1MFS-18M-52M | M18X1.5 | M52X2 |
| ML1MFS-22M-22M | M22X1.5 | M22X1.5 |
| ML1MFS-22M-26M | M22X1.5 | M26X1.5 |
| ML1MFS-22M-30M | M22X1.5 | M30X2 |
| ML1MFS-22M-36M | M22X1.5 | M36X2 |
| ML1MFS-22M-45M | M22X1.5 | M45X2 |
| ML1MFS-22M-52M | M22X1.5 | M52X2 |

## ML1MFS Cont... Metric Light (L) Male X Metric Light (L) Female Swivel



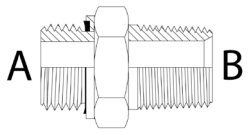

| Part # | Metric Light M | Metric Light F/S |
|---|---|---|
| ML1MFS-26M-26M | M26X1.5 | M26X1.5 |
| ML1MFS-26M-30M | M26X1.5 | M30X2 |
| ML1MFS-26M-36M | M26X1.5 | M36X2 |
| ML1MFS-26M-45M | M26X1.5 | M45X2 |
| ML1MFS-26M-52M | M26X1.5 | M52X2 |
| ML1MFS-30M-30M | M30X2 | M30X2 |
| ML1MFS-30M-36M | M30X2 | M36X2 |
| ML1MFS-30M-45M | M30X2 | M45X2 |
| ML1MFS-30M-52M | M30X2 | M52X2 |
| ML1MFS-36M-36M | M36X2 | M36X2 |
| ML1MFS-36M-45M | M36X2 | M45X2 |
| ML1MFS-36M-52M | M36X2 | M52X2 |
| ML1MFS-45M-45M | M45X2 | M45X2 |
| ML1MFS-45M-52M | M45X2 | M52X2 |
| ML1MFS-52M-52M | M52X2 | M52X2 |

## MLJ1M Metric Light (L) Male X JIC Male



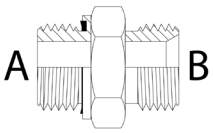

| Part # | Metric Light M | JIC M |
|---|---|---|
| MLJ1M-12M-04 | M12X1.5 | 7/16 |
| MLJ1M-12M-06 | M12X1.5 | 9/16 |
| MLJ1M-14M-04 | M14X1.5 | 7/16 |
| MLJ1M-14M-06 | M14X1.5 | 9/16 |
| MLJ1M-14M-08 | M14X1.5 | 3/4 |
| MLJ1M-16M-04 | M16X1.5 | 7/16 |
| MLJ1M-16M-06 | M16X1.5 | 9/16 |
| MLJ1M-16M-08 | M16X1.5 | 3/4 |
| MLJ1M-18M-04 | M18X1.5 | 7/16 |
| MLJ1M-18M-06 | M18X1.5 | 9/16 |
| MLJ1M-18M-08 | M18X1.5 | 3/4 |
| MLJ1M-22M-06 | M22X1.5 | 9/16 |
| MLJ1M-22M-08 | M22X1.5 | 3/4 |
| MLJ1M-22M-10 | M22X1.5 | 7/8 |
| MLJ1M-22M-12 | M22X1.5 | 1 1/16 |
| MLJ1M-22M-16 | M22X1.5 | 1 5/16 |
| MLJ1M-26M-08 | M26X1.5 | 3/4 |
| MLJ1M-26M-10 | M26X1.5 | 7/8 |
| MLJ1M-26M-12 | M26X1.5 | 1 1/16 |
| MLJ1M-30M-12 | M30X2 | 1 1/16 |
| MLJ1M-30M-16 | M30X2 | 1 5 |
| MLJ1M-36M-16 | M36X2 | 1 5/16 |
| MLJ1M-45M-20 | M45X2 | 1 5/8 |
| MLJ1M-52M-24 | M52X2 | 1 7/8 |

## MSB1M — Metric Stud Male X BSPT Male



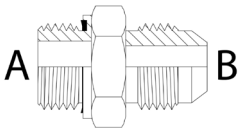

| Part # | Metric Stud M | BSPT M |
|---|---|---|
| MSB1M-10M-02 | M10X1.0 | 1/8 |
| MSB1M-14M-04 | M14X1.5 | 1/4 |
| MSB1M-14M-06 | M14X1.5 | 3/8 |
| MSB1M-16M-04 | M16X1.5 | 1/4 |
| MSB1M-16M-06 | M16X1.5 | 3/8 |
| MSB1M-18M-06 | M18X1.5 | 3/8 |
| MSB1M-18M-08 | M18X1.5 | 1/2 |
| MSB1M-22M-08 | M22X1.5 | 1/2 |
| MSB1M-27M-08 | M27X2 | 1/2 |
| MSB1M-27M-12 | M27X2 | 3/4 |

## MSBP1M — Metric Stud Male X BSPP Male



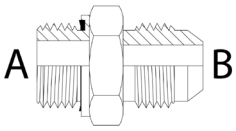

| Part # | Metric Stud M | BSPP M |
|---|---|---|
| MSBP1M-10M-04 | M10X1.0 | 1/4 |
| MSBP1M-12M-04 | M12X1.5 | 1/4 |
| MSBP1M-14M-04 | M14X1.5 | 1/4 |
| MSBP1M-14M-06 | M14X1.5 | 3/8 |
| MSBP1M-14M-08 | M14X1.5 | 1/2 |
| MSBP1M-16M-04 | M16X1.5 | 1/4 |
| MSBP1M-16M-06 | M16X1.5 | 3/8 |
| MSBP1M-16M-08 | M16X1.5 | 1/2 |
| MSBP1M-18M-04 | M18X1.5 | 1/4 |
| MSBP1M-18M-06 | M18X1.5 | 3/8 |
| MSBP1M-18M-08 | M18X1.5 | 1/2 |
| MSBP1M-20M-06 | M20X1.5 | 3/8 |
| MSBP1M-20M-08 | M20X1.5 | 1/2 |
| MSBP1M-22M-06 | M22X1.5 | 3/8 |
| MSBP1M-22M-08 | M22X1.5 | 1/2 |
| MSBP1M-22M-12 | M22X1.5 | 3/4 |
| MSBP1M-24M-08 | M24X1.5 | 1/2 |
| MSBP1M-26M-06 | M26X1.5 | 3/8 |
| MSBP1M-26M-08 | M26X1.5 | 1/2 |
| MSBP1M-26M-12 | M26X1.5 | 3/4 |
| MSBP1M-27M-08 | M27X2 | 1/2 |
| MSBP1M-27M-12 | M27X2 | 3/4 |
| MSBP1M-27M-16 | M27X2 | 1 |
| MSBP1M-30X1.5M-12 | M30X1.5 | 3/4 |
| MSBP1M-30X2.0M-12 | M30X2 | 3/4 |
| MSBP1M-33X1.5M-08 | M33X1.5 | 1/2 |
| MSBP1M-33X1.5M-12 | M33X1.5 | 3/4 |
| MSBP1M-33X2.0M-12 | M33X2 | 3/4 |
| MSBP1M-33X2.0M-16 | M33X2 | 1 |
| MSBP1M-42M-20 | M42X2 | 1 1/4 |

## MSJ1M — Metric Stud Male X JIC Male



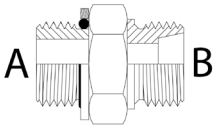

| Part # | Metric Stud M | JIC M |
|---|---|---|
| MSJ1M-06M-04 | M6X1.0 | 7/16 |
| MSJ1M-08M-04 | M8X1.0 | 7/16 |
| MSJ1M-10M-04 | M10X1.0 | 7/16 |
| MSJ1M-12M-04 | M12X1.5 | 7/16 |
| MSJ1M-12M-06 | M12X1.5 | 9/16 |
| MSJ1M-12M-08 | M12X1.5 | 3/4 |
| MSJ1M-14M-04 | M14X1.5 | 7/16 |
| MSJ1M-14M-06 | M14X1.5 | 9/16 |
| MSJ1M-14M-08 | M14X1.5 | 3/4 |
| MSJ1M-16M-04 | M16X1.5 | 7/16 |
| MSJ1M-16M-06 | M16X1.5 | 9/16 |
| MSJ1M-16M-08 | M16X1.5 | 3/4 |
| MSJ1M-16M-10 | M16X1.5 | 7/8 |
| MSJ1M-18M-06 | M18X1.5 | 9/16 |
| MSJ1M-18M-08 | M18X1.5 | 3/4 |
| MSJ1M-18M-10 | M18X1.5 | 7/8 |
| MSJ1M-18M-12 | M18X1.5 | 1 1/16 |
| MSJ1M-20M-06 | M20X1.5 | 9/16 |
| MSJ1M-20M-08 | M20X1.5 | 3/4 |
| MSJ1M-20M-10 | M20X1.5 | 7/8 |
| MSJ1M-20M-12 | M20X1.5 | 1 1/16 |
| MSJ1M-22M-06 | M22X1.5 | 9/16 |
| MSJ1M-22M-08 | M22X1.5 | 3/4 |
| MSJ1M-22M-10 | M22X1.5 | 7/8 |
| MSJ1M-22M-12 | M22X1.5 | 1 1/16 |
| MSJ1M-22M-16 | M22X1.5 | 1 |
| MSJ1M-24M-12 | M24X1.5 | 1 1/16 |
| MSJ1M-26M-06 | M26X1.5 | 9/16 |
| MSJ1M-26M-08 | M26X1.5 | 3/4 |
| MSJ1M-26M-10 | M26X1.5 | 7/8 |
| MSJ1M-26M-12 | M26X1.5 | 1 1/16 |
| MSJ1M-26M-16 | M26X1.5 | 1 5/16 |
| MSJ1M-27M-12 | M27X2 | 1 1/16 |
| MSJ1M-27M-16 | M27X2 | 1 5/16 |
| MSJ1M-27X1.5M-12 | M27X1.5 | 1 1/16 |
| MSJ1M-28M-12 | M28X1.5 | 1 1/16 |
| MSJ1M-30M-12 | M30X2 | 1 1/16 |
| MSJ1M-30X1.5M-12 | M30X1.5 | 1 1/16 |
| MSJ1M-33M-12 | M33X2 | 1 1/16 |
| MSJ1M-33M-16 | M33X2 | 1 5/16 |

## MSJ1M Cont... — Metric Stud Male X JIC Male



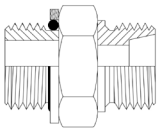

| Part # | Metric Stud M | JIC M |
|---|---|---|
| MSJ1M-36M-12 | M36X2 | 1 1/16 |
| MSJ1M-42M-20 | M42X2 | 1 5/8 |
| MSJ1M-42M-24 | M42X2 | 1 7/8 |
| MSJ1M-48M-20 | M48X2 | 1 5/8 |
| MSJ1M-48M-24 | M48X2 | 1 7/8 |

## MSMH1M — Metric Stud Male X Metric Heavy (S) Male



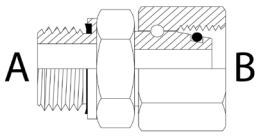

| Part # | Metric Stud M | Metric Heavy M |
|---|---|---|
| MSMH1M-16M-18M | M16X1.5 | M18X1.5 |
| MSMH1M-18M-20M | M18X1.5 | M20X1.5 |
| MSMH1M-22M-24M | M22X1.5 | M24X1.5 |

## MSML1M — Metric Stud Male X Metric Light (L) Male



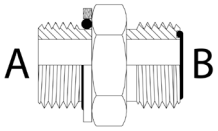
| Part # | Metric Stud M | Metric Light M |
|---|---|---|
| MSML1M-12M-14M | M12X1.5 | M14X1.5 |
| MSML1M-12M-16M | M12X1.5 | M16X1.5 |
| MSML1M-14M-14M | M14X1.5 | M14X1.5 |
| MSML1M-14M-16M | M14X1.5 | M16X1.5 |
| MSML1M-16M-16M | M16X1.5 | M16X1.5 |
| MSML1M-16M-18M | M16X1.5 | M18X1.5 |
| MSML1M-16M-22M | M16X1.5 | M22X1.5 |
| MSML1M-18M-14M | M18X1.5 | M14X1.5 |
| MSML1M-18M-18M | M18X1.5 | M18X1.5 |
| MSML1M-18M-22M | M18X1.5 | M22X1.5 |
| MSML1M-22M-18M | M22X1.5 | M18X1.5 |
| MSML1M-42M-45M | M42X2 | M45X2 |
| MSML1M-48M-52M | M48X2 | M52X2 |

## MSML1MFS — Metric Stud Male X Metric Light (L) Female Swivel



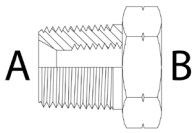

| Part # | Metric Stud M | Metric Light F/S |
|---|---|---|
| MSML1MFS-16M-18M | M16X1.5 | M18X1.5 |
| MSML1MFS-18M-22M | M18X1.5 | M22X1.5 |
| MSML1MFS-22M-18M | M22X1.5 | M18X1.5 |

## MSORS1M — Metric Stud Male X ORFS Male



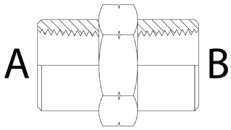

| Part # | Metric Stud M | ORFS M |
|---|---|---|
| MSORS1M-12M-04 | 12MX1.5 | 9/16 |
| MSORS1M-12M-06 | 12MX1.5 | 11/16 |
| MSORS1M-14M-06 | 14MX1.5 | 11/16 |
| MSORS1M-16M-06 | 16MX1.5 | 11/16 |
| MSORS1M-18M-06 | 18MX1.5 | 11/16 |
| MSORS1M-18M-08 | 18MX1.5 | 13/16 |
| MSORS1M-22M-08 | 22M X1.5 | 13/16 |
| MSORS1M-22M-10 | 22MX1.5 | 1 |
| MSORS1M-22M-12 | 22MX1.5 | 1 3/16 |

## N1B — NPT Male X NPT Female Red Bush



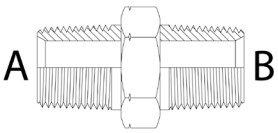

| Part # | NPT M | NPT F |
|---|---|---|
| N1B-04-02 | 1/4 | 1/8 |
| N1B-06-02 | 3/8 | 1/8 |
| N1B-06-04 | 3/8 | 1/4 |
| N1B-08-02 | 1/2 | 1/8 |
| N1B-08-04 | 1/2 | 1/4 |
| N1B-08-06 | 1/2 | 3/8 |
| N1B-12-04 | 3/4 | 1/4 |
| N1B-12-06 | 3/4 | 3/8 |
| N1B-12-08 | 3/4 | 1/2 |
| N1B-16-06 | 1 | 3/8 |
| N1B-16-08 | 1 | 1/2 |
| N1B-16-12 | 1 | 3/4 |
| N1B-20-08 | 1 1/4 | 1/2 |
| N1B-20-12 | 1 1/4 | 3/4 |
| N1B-20-16 | 1 1/4 | 1 |
| N1B-24-12 | 1 1/2 | 3/4 |
| N1B-24-16 | 1 1/2 | 1 |
| N1B-24-20 | 1 1/2 | 1 1/4 |
| N1B-32-16 | 2 | 1 |
| N1B-32-24 | 2 | 1 1/2 |

## N1F — NPT Female X NPT Female



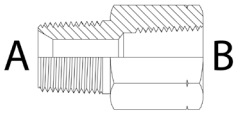

| Part # | NPT F | NPT F |
|---|---|---|
| N1F-02-02 | 1/8 | 1/8 |
| N1F-02-04 | 1/8 | 1/4 |
| N1F-04-04 | 1/4 | 1/4 |
| N1F-04-06 | 1/4 | 3/8 |
| N1F-04-08 | 1/4 | 1/2 |
| N1F-06-06 | 3/8 | 3/8 |
| N1F-06-08 | 3/8 | 1/2 |
| N1F-08-08 | 1/2 | 1/2 |
| N1F-08-12 | 1/2 | 3/4 |
| N1F-12-12 | 3/4 | 3/4 |
| N1F-12-16 | 3/4 | 1 |
| N1F-16-16 | 1 | 1 |
| N1F-20-20 | 1 1/4 | 1 1/4 |
| N1F-24-24 | 1 1/2 | 1 1/2 |
| N1F-32-32 | 2 | 2 |

## N1M — NPT Male X NPT Male



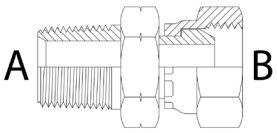

| Part # | NPT M | NPT M |
|---|---|---|
| N1M-02-02 | 1/8 | 1/8 |
| N1M-02-04 | 1/8 | 1/4 |
| N1M-02-06 | 1/8 | 3/8 |
| N1M-04-04 | 1/4 | 1/4 |
| N1M-04-06 | 1/4 | 3/8 |
| N1M-04-08 | 1/4 | 1/2 |
| N1M-04-12 | 1/4 | 3/4 |
| N1M-06-06 | 3/8 | 3/8 |
| N1M-06-08 | 3/8 | 1/2 |
| N1M-06-12 | 3/8 | 3/4 |
| N1M-06-16 | 3/8 | 1 |
| N1M-08-08 | 1/2 | 1/2 |
| N1M-08-12 | 1/2 | 3/4 |
| N1M-08-16 | 1/2 | 1 |
| N1M-12-12 | 3/4 | 3/4 |
| N1M-12-16 | 3/4 | 1 |
| N1M-12-20 | 3/4 | 1 1/4 |
| N1M-12-24 | 3/4 | 1 1/2 |
| N1M-16-16 | 1 | 1 |
| N1M-16-20 | 1 | 1 1/4 |
| N1M-16-24 | 1 | 1 1/2 |
| N1M-20-20 | 1 1/4 | 1 1/4 |
| N1M-20-24 | 1 1/4 | 1 1/2 |
| N1M-24-24 | 1 1/2 | 1 1/2 |
| N1M-24-32 | 1 1/2 | 2 |
| N1M-32-32 | 2 | 2 |

## N1MF — NPT Male X NPT Female



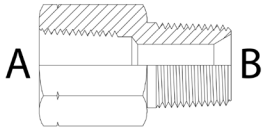

| Part # | NPT M | NPT F |
|---|---|---|
| N1MF-02-02 | 1/8 | 1/8 |
| N1MF-02-04 | 1/8 | 1/4 |
| N1MF-02-06 | 1/8 | 3/8 |
| N1MF-04-04 | 1/4 | 1/4 |
| N1MF-04-06 | 1/4 | 3/8 |
| N1MF-04-08 | 1/4 | 1/2 |
| N1MF-06-06 | 3/8 | 3/8 |
| N1MF-06-08 | 3/8 | 1/2 |
| N1MF-08-08 | 1/2 | 1/2 |
| N1MF-08-12 | 1/2 | 3/4 |
| N1MF-12-12 | 3/4 | 3/4 |
| N1MF-12-16 | 3/4 | 1 |
| N1MF-16-16 | 1 | 1 |

## N1MFS — NPT Male X NPSM Female Swivel



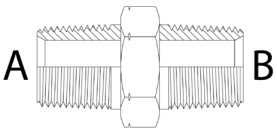

| Part # | NPT M | NPSM F/S |
|---|---|---|
| N1MFS-02-02 | 1/8 | 1/8 |
| N1MFS-04-04 | 1/4 | 1/4 |
| N1MFS-04-06 | 1/4 | 3/8 |
| N1MFS-06-06 | 3/8 | 3/8 |
| N1MFS-08-08 | 1/2 | 1/2 |
| N1MFS-12-12 | 3/4 | 3/4 |
| N1MFS-16-16 | 1 | 1 |
| N1MFS-20-20 | 1 1/4 | 1 1/4 |
| N1MFS-24-24 | 1 1/2 | 1 1/2 |
| N1MFS-32-32 | 2 | 2 |

## NB1FM — NPT Female X BSPT Male



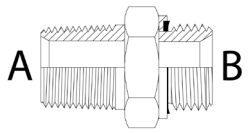

| Part # | NPT F | BSPT M |
|---|---|---|
| NB1FM-02-02 | 1/8 | 1/8 |
| NB1FM-04-04 | 1/4 | 1/4 |
| NB1FM-06-06 | 3/8 | 3/8 |
| NB1FM-08-08 | 1/2 | 1/2 |
| NB1FM-12-12 | 3/4 | 3/4 |
| NB1FM-16-16 | 1 | 1 |

## NB1M — NPT Male X BSPT Male



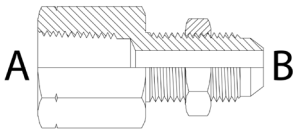

| Part # | NPT M | BSPT M |
|---|---|---|
| NB1M-02-02 | 1/8 | 1/8 |
| NB1M-04-04 | 1/4 | 1/4 |
| NB1M-06-06 | 3/8 | 3/8 |
| NB1M-08-08 | 1/2 | 1/2 |
| NB1M-12-12 | 3/4 | 3/4 |
| NB1M-16-16 | 1 | 1 |
| NB1M-20-20 | 1 1/4 | 1 1/4 |
| NB1M-24-24 | 1 1/2 | 1 1/2 |
| NB1M-32-32 | 2 | 2 |

## NBP1M — NPT Male X BSPP Male



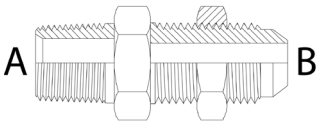

| Part # | NPT M | BSPP M |
|---|---|---|
| NBP1M-02-02 | 1/8 | 1/8 |
| NBP1M-04-04 | 1/4 | 1/4 |
| NBP1M-06-06 | 3/8 | 3/8 |
| NBP1M-06-08 | 3/8 | 1/2 |
| NBP1M-08-06 | 1/2 | 3/8 |
| NBP1M-08-08 | 1/2 | 1/2 |
| NBP1M-08-12 | 1/2 | 3/4 |
| NBP1M-12-08 | 3/4 | 1/2 |
| NBP1M-12-12 | 3/4 | 3/4 |
| NBP1M-16-16 | 1 | 1 |
| NBP1M-16-20 | 1 | 1 1/4 |
| NBP1M-20-20 | 1 1/4 | 1 1/4 |
| NBP1M-20-24 | 1 1/4 | 1 1/2 |
| NBP1M-24-24 | 1 1/2 | 1 1/2 |
| NBP1M-24-32 | 1 1/2 | 2 |
| NBP1M-32-32 | 2 | 2 |

## NJ10FM — NPT Female X JIC Male Bulkhead



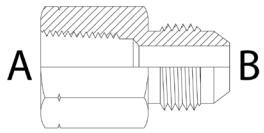

| Part # | NPT F | JIC BH |
|---|---|---|
| NJ10FM-02-04 | 1/8 | 7/16 |
| NJ10FM-04-04 | 1/4 | 7/16 |
| NJ10FM-04-06 | 1/4 | 9/16 |
| NJ10FM-06-04 | 3/8 | 7/16 |
| NJ10FM-06-06 | 3/8 | 9/16 |
| NJ10FM-08-08 | 1/2 | 3/4 |
| NJ10FM-08-10 | 1/2 | 7/8 |
| NJ10FM-12-12 | 3/4 | 1 1/16 |

## NJ10M — NPT Male X JIC Male Bulkhead



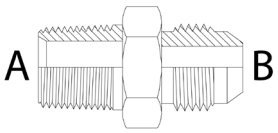

| Part # | NPT M | JIC BH |
|---|---|---|
| NJ10M-04-04 | 1/4 | 7/16 |
| NJ10M-06-06 | 3/8 | 9/16 |
| NJ10M-08-08 | 1/2 | 3/4 |
| NJ10M-08-10 | 1/2 | 7/8 |
| NJ10M-12-12 | 3/4 | 1 1/16 |
| NJ10M-16-16 | 1 | 1 5/16 |

## NJ1FM — NPT Female X JIC Male




| Part # | NPT F | JIC M |
|---|---|---|
| NJ1FM-02-04 | 1/8 | 7/16 |
| NJ1FM-04-04 | 1/4 | 7/16 |
| NJ1FM-04-06 | 1/4 | 9/16 |
| NJ1FM-06-06 | 3/8 | 9/16 |
| NJ1FM-06-08 | 3/8 | 3/4 |
| NJ1FM-08-08 | 1/2 | 3/4 |
| NJ1FM-08-12 | 1/2 | 1 1/16 |
| NJ1FM-12-12 | 3/4 | 1 1/16 |
| NJ1FM-16-16 | 1 | 1 5/16 |
| NJ1FM-20-20 | 1 1/4 | 1 5/8 |
| NJ1FM-24-24 | 1 1/2 | 1 7/8 |
| NJ1FM-32-32 | 2 | 2 1/2 |

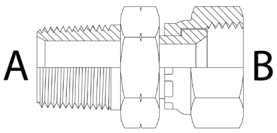
## NJ1M — NPT Male X JIC Male




| Part # | NPT M | JIC M |
|---|---|---|
| NJ1M-01-04 | 1/16 | 7/16 |
| NJ1M-02-04 | 1/8 | 7/16 |
| NJ1L46M-02-04* | 1/8 | 7/16 |
| NJ1L65M-02-04* | 1/8 | 7/16 |
| NJ1M-02-06 | 1/8 | 9/16 |
| NJ1M-04-03 | 1/4 | 3/8 |
| NJ1M-04-04 | 1/4 | 7/16 |
| NJ1L57M-04-04* | 1/4 | 7/16 |
| NJ1M-04-05 | 1/4 | 1/2 |
| NJ1M-04-06 | 1/4 | 9/16 |
| NJ1M-04-08 | 1/4 | 3/4 |
| NJ1M-06-04 | 3/8 | 7/16 |
| NJ1M-06-05 | 3/8 | 1/2 |
| NJ1M-06-06 | 3/8 | 9/16 |
| NJ1M-06-08 | 3/8 | 3/4 |
| NJ1M-06-10 | 3/8 | 7/8 |
| NJ1M-06-12 | 3/8 | 1 1/16 |
| NJ1M-08-04 | 1/2 | 7/16 |
| NJ1M-08-06 | 1/2 | 9/16 |
| NJ1M-08-08 | 1/2 | 3/4 |
| NJ1M-08-10 | 1/2 | 7/8 |
| NJ1M-08-12 | 1/2 | 1 1/16 |
| NJ1M-12-06 | 3/4 | 9/16 |
| NJ1M-12-08 | 3/4 | 3/4 |
| NJ1M-12-10 | 3/4 | 7/8 |
| NJ1M-12-12 | 3/4 | 1 1/16 |
| NJ1M-12-16 | 3/4 | 1 5/16 |
| NJ1M-16-08 | 1 | 3/4 |
| NJ1M-16-10 | 1 | 7/8 |
| NJ1M-16-12 | 1 | 1 1/16 |
| NJ1M-16-16 | 1 | 1 5/16 |
| NJ1M-16-20 | 1 | 1 5/8 |
| NJ1M-20-16 | 1 1/4 | 1 5/16 |
| NJ1M-20-20 | 1 1/4 | 1 5/8 |
| NJ1M-20-24 | 1 1/4 | 1 7/8 |
| NJ1M-24-16 | 1 1/2 | 1 5/16 |
| NJ1M-24-20 | 1 1/2 | 1 5/8 |
| NJ1M-24-24 | 1 1/2 | 1 7/8 |
| NJ1M-24-32 | 1 1/2 | 2 1/2 |
| NJ1M-32-24 | 2 | 1 7/8 |
| NJ1M-32-32 | 2 | 2 1/2 |

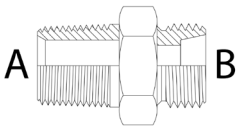
*L = Length eg; L46 = 46mm long

## NJ1MFS — NPT Male X JIC Female Swivel



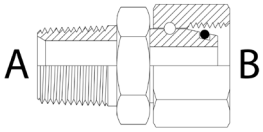

| Part # | NPT M | JIC F/S |
|---|---|---|
| NJ1MFS-02-04 | 1/8 | 7/16 |
| NJ1MFS-04-04 | 1/4 | 7/16 |
| NJ1MFS-04-06 | 1/4 | 9/16 |
| NJ1MFS-06-06 | 3/8 | 9/16 |
| NJ1MFS-06-08 | 3/8 | 3/4 |
| NJ1MFS-08-08 | 1/2 | 3/4 |
| NJ1MFS-08-10 | 1/2 | 7/8 |
| NJ1MFS-12-12 | 3/4 | 1 1/16 |
| NJ1MFS-16-16 | 1 | 1 5/16 |
| NJ1MFS-20-20 | 1 1/4 | 1 5/8 |
| NJ1MFS-24-24 | 1 1/2 | 1 7/8 |
| NJ1MFS-32-32 | 2 | 2 1/2 |

## NMH1M — NPT Male X Metric Heavy (S) Male



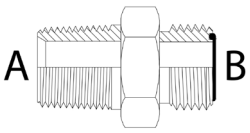

| Part # | NPT M | Metric Heavy M |
|---|---|---|
| NMH1M-06-18M | 3/8 | M18X1.5 |
| NMH1M-06-20M | 3/8 | M20X1.5 |
| NMH1M-08-22M | 1/2 | M22X1.5 |
| NMH1M-08-24M | 1/2 | M24X1.5 |

## NMH1MFS — NPT Male X Metric Heavy (S) Female Swivel



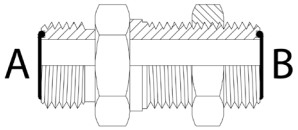

| Part # | NPT M | Metric Heavy F/S |
|---|---|---|
| NMH1MFS-06-18M | 3/8 | M18X1.5 |

## NORS1M — NPT Male X ORFS Male



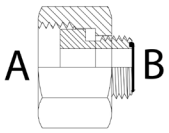

| Part # | NPT M | ORFS M |
|---|---|---|
| NORS1M-02-04 | 1/8 | 9/16 |
| NORS1M-04-04 | 1/4 | 9/16 |
| NORS1M-04-06 | 1/4 | 11/16 |
| NORS1M-06-04 | 3/8 | 9/16 |
| NORS1M-06-06 | 3/8 | 11/16 |
| NORS1M-06-08 | 3/8 | 13/16 |
| NORS1M-08-04 | 1/2 | 9/16 |
| NORS1M-08-06 | 1/2 | 11/16 |
| NORS1M-08-08 | 1/2 | 13/16 |
| NORS1M-08-10 | 1/2 | 1 |
| NORS1M-12-08 | 3/4 | 13/16 |
| NORS1M-12-12 | 3/4 | 1 3/16 |
| NORS1M-16-12 | 1 | 1 3/16 |
| NORS1M-16-16 | 1 | 1 7/16 |

## ORS10M — ORFS Male X ORFS Male Bulkhead



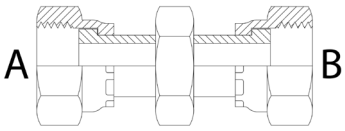

| Part # | ORFS M | ORFS BH |
|---|---|---|
| ORS10M-04-04 | 9/16 | 9/16 |
| ORS10M-06-06 | 11/16 | 11/16 |
| ORS10M-08-08 | 13/16 | 13/16 |
| ORS10M-10-10 | 1 | 1 |
| ORS10M-12-12 | 1 3/16 | 1 3/16 |
| ORS10M-16-16 | 1 7/16 | 1 7/16 |
| ORS10M-20-20 | 1 11/16 | 1 11/16 |
| ORS10M-24-24 | 2 | 2 |

## ORS1FM — ORFS Female X ORFS Male



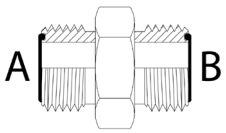

| Part # | ORFS F | ORFS M |
|---|---|---|
| ORS1FM-04-06 | 9/16 | 11/16 |
| ORS1FM-06-04 | 11/16 | 9/16 |
| ORS1FM-06-08 | 11/16 | 13/16 |
| ORS1FM-08-04 | 13/16 | 9/16 |
| ORS1FM-08-06 | 13/16 | 11/16 |
| ORS1FM-08-12 | 13/16 | 1 3/16 |
| ORS1FM-10-08 | 1 | 13/16 |
| ORS1FM-12-04 | 1 3/16 | 9/16 |
| ORS1FM-12-06 | 1 3/16 | 11/16 |
| ORS1FM-12-08 | 1 3/16 | 13/16 |
| ORS1FM-12-10 | 1 3/16 | 1 |
| ORS1FM-16-08 | 1 7/16 | 13/16 |
| ORS1FM-16-10 | 1 7/16 | 1 |
| ORS1FM-16-12 | 1 7/16 | 1 3/16 |
| ORS1FM-20-12 | 1 11/16 | 1 3/16 |
| ORS1FM-20-16 | 1 11/16 | 1 7/16 |
| ORS1FM-24-20 | 2 | 1 11/16 |

## ORS1FS — ORFS Female Swivel X ORFS Female Swivel



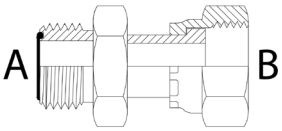

| Part # | ORFS F/S | ORFS F/S |
|---|---|---|
| ORS1FS-04-04 | 9/16 | 9/16 |
| ORS1FS-06-06 | 11/16 | 11/16 |
| ORS1FS-08-08 | 13/16 | 13/16 |
| ORS1FS-10-10 | 1 | 1 |
| ORS1FS-12-12 | 1 3/16 | 1 3/16 |
| ORS1FS-16-16 | 1 7/16 | 1 7/16 |

## ORS1M — ORFS Male X ORFS Male



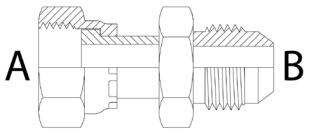

| Part # | ORFS M | ORFS M |
|---|---|---|
| ORS1M-04-04 | 9/16 | 9/16 |
| ORS1M-04-06 | 9/16 | 11/16 |
| ORS1M-06-06 | 11/16 | 11/16 |
| ORS1M-06-08 | 11/16 | 13/16 |
| ORS1M-08-08 | 13/16 | 13/16 |
| ORS1M-08-10 | 13/16 | 1 |
| ORS1M-08-12 | 13/16 | 1 3/16 |
| ORS1M-10-10 | 1 | 1 |
| ORS1M-10-12 | 1 | 1 3/16 |
| ORS1M-12-12 | 1 3/16 | 1 3/16 |
| ORS1M-12-16 | 1 3/16 | 1 7/16 |
| ORS1M-16-16 | 1 7/16 | 1 7/16 |
| ORS1M-16-20 | 1 7/16 | 1 11/16 |
| ORS1M-20-20 | 1 11/16 | 1 11/16 |
| ORS1M-24-24 | 2 | 2 |

## ORS1MFS — ORFS Male X ORFS Female Swivel



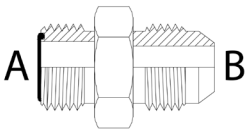

| Part # | ORFS M | ORFS F/S |
|---|---|---|
| ORS1MFS-04-04 | 9/16 | 9/16 |
| ORS1MFS-04-06 | 9/16 | 11/16 |
| ORS1MFS-06-06 | 11/16 | 11/16 |
| ORS1MFS-06-08 | 11/16 | 13/16 |
| ORS1MFS-08-06 | 13/16 | 11/16 |
| ORS1MFS-08-08 | 13/16 | 13/16 |
| ORS1MFS-08-10 | 13/16 | 1 |
| ORS1MFS-08-12 | 13/16 | 1 3/16 |
| ORS1MFS-10-10 | 1 | 1 |
| ORS1MFS-12-12 | 1 3/16 | 1 3/16 |
| ORS1MFS-12-16 | 1 3/16 | 1 7/16 |
| ORS1MFS-16-12 | 1 7/16 | 1 3/16 |
| ORS1MFS-16-16 | 1 7/16 | 1 7/16 |
| ORS1MFS-20-16 | 1 11/16 | 1 7/16 |

## ORSJ1FSM — ORFS Female Swivel X JIC Male



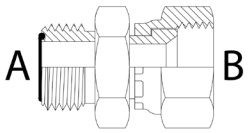

| Part # | ORFS F/S | JIC M |
|---|---|---|
| ORSJ1FSM-04-04 | 9/16 | 7/16 |
| ORSJ1FSM-06-06 | 11/16 | 9/16 |
| ORSJ1FSM-08-08 | 13/16 | 3/4 |
| ORSJ1FSM-08-10 | 13/16 | 7/8 |
| ORSJ1FSM-10-10 | 1 | 7/8 |
| ORSJ1FSM-12-12 | 1 3/16 | 1 1/16 |
| ORSJ1FSM-16-16 | 1 7/16 | 1 5/16 |
| ORSJ1FSM-20-20 | 1 11/16 | 1 5/8 |

## ORSJ1M — ORFS Male X JIC Male




| Part # | ORFS M | JIC M |
|---|---|---|
| ORSJ1M-04-04 | 9/16 | 7/16 |
| ORSJ1M-06-06 | 11/16 | 9/16 |
| ORSJ1M-08-08 | 13/16 | 3/4 |
| ORSJ1M-08-10 | 13/16 | 7/8 |
| ORSJ1M-10-10 | 1 | 7/8 |
| ORSJ1M-12-12 | 1 3/16 | 1 1/16 |
| ORSJ1M-16-16 | 1 7/16 | 1 5/16 |
| ORSJ1M-20-20 | 1 11/16 | 1 5/8 |

## ORSJ1MFS — ORFS Male X JIC Female Swivel

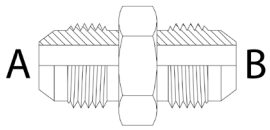



| Part # | ORFS M | JIC F/S |
|---|---|---|
| ORSJ1MFS-04-04 | 9/16 | 7/16 |
| ORSJ1MFS-06-06 | 11/16 | 9/16 |
| ORSJ1MFS-08-08 | 13/16 | 3/4 |
| ORSJ1MFS-08-10 | 13/16 | 7/8 |
| ORSJ1MFS-10-10 | 1 | 7/8 |
| ORSJ1MFS-12-12 | 1 3/16 | 1 1/16 |
| ORSJ1MFS-16-16 | 1 7/16 | 1 5/16 |
| ORSJ1MFS-20-20 | 1 11/16 | 1 5/8 |

# Adaptors

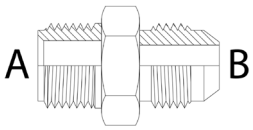


## S1M — SAE Male X SAE Male



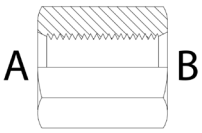

| Part # | SAE M | SAE M |
|---|---|---|
| S1M-06-06 | 5/8 | 5/8 |

## SINVJ1M — SAE Inverted Flare Male X JIC Male




| Part # | SAE M | JIC M |
|---|---|---|
| SINVJ1M-04-04 | 7/16-24 | 7/16-20 |
| SINVJ1M-05-06 | 1/2-20 | 9/16-18 |
| SINVJ1M-06-06 | 5/8-18 | 9/16-18 |

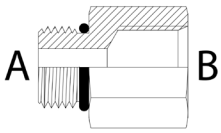
## U1F — UNO Female X UNO Female




| Part # | UNO F | UNO F |
|---|---|---|
| U1F-04-04 | 7/16 | 7/16 |
| U1F-06-06 | 9/16 | 9/16 |
| U1F-08-08 | 3/4 | 3/4 |
| U1F-10-10 | 7/8 | 7/8 |
| U1F-12-12 | 1 1/16 | 1 1/16 |
| U1F-16-16 | 1 5/16 | 1 5/16 |

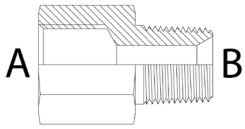

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## U1MF — UNO Male X UNO Female



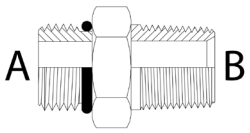

| Part # | UNO M | UNO F |
|---|---|---|
| U1MF-06-04 | 9/16 | 7/16 |
| U1MF-06-08 | 9/16 | 3/4 |
| U1MF-08-06 | 3/4 | 9/16 |
| U1MF-10-08 | 7/8 | 3/4 |
| U1MF-12-08 | 1 1/16 | 3/4 |
| U1MF-12-10 | 1 1/16 | 7/8 |
| U1MF-16-10 | 1 5/16 | 7/8 |
| U1MF-16-12 | 1 5/16 | 1 1/16 |
| U1MF-20-16 | 1 5/8 | 1 5/16 |
| U1MF-24-08 | 1 7/8 | 3/4 |

## UB1FM — UNO Female X BSPT Male



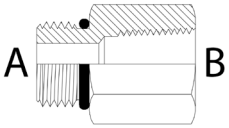

| Part # | UNO F | BSPT M |
|---|---|---|
| UB1FM-08-08 | 3/4 | 1/2 |
| UB1FM-10-04 | 7/8 | 1/4 |
| UB1FM-10-08 | 7/8 | 1/2 |

## UB1M — UNO Male X BSPT Male



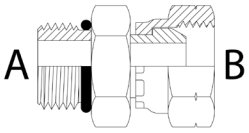

| Part # | UNO M | BSPT M |
|---|---|---|
| UB1M-04-04 | 7/16 | 1/4 |
| UB1M-05-04 | 1/2 | 1/4 |
| UB1M-06-04 | 9/16 | 1/4 |
| UB1M-06-06 | 9/16 | 3/8 |
| UB1M-06-08 | 9/16 | 1/2 |
| UB1M-06-12 | 9/16 | 3/4 |
| UB1M-08-04 | 3/4 | 1/4 |
| UB1M-08-06 | 3/4 | 3/8 |
| UB1M-08-08 | 3/4 | 1/2 |
| UB1M-08-12 | 3/4 | 3/4 |
| UB1M-10-04 | 7/8 | 1/4 |
| UB1M-10-06 | 7/8 | 3/8 |
| UB1M-10-08 | 7/8 | 1/2 |
| UB1M-10-12 | 7/8 | 3/4 |
| UB1M-12-06 | 1 1/16 | 3/8 |
| UB1M-12-08 | 1 1/16 | 1/2 |
| UB1M-12-10 | 1 1/16 | 5/8 |
| UB1M-12-12 | 1 1/16 | 3/4 |
| UB1M-12-16 | 1 1/16 | 1 |
| UB1M-16-12 | 1 5/16 | 3/4 |
| UB1M-16-16 | 1 5/16 | 1 |
| UB1M-16-20 | 1 5/16 | 1 1/4 |
| UB1M-20-16 | 1 5/8 | 1 |
| UB1M-20-20 | 1 5/8 | 1 1/4 |
| UB1M-24-20 | 1 7/8 | 1 1/4 |
| UB1M-24-24 | 1 7/8 | 1 1/2 |

## UB1MF — UNO Male X BSPT Female



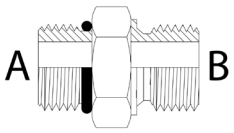

| Part # | UNO M | BSPT F |
|---|---|---|
| UB1MF-04-04 | 7/16 | 1/4 |
| UB1MF-06-04 | 9/16 | 1/4 |
| UB1MF-08-04 | 3/4 | 1/4 |
| UB1MF-08-08 | 3/4 | 1/2 |
| UB1MF-10-08 | 7/8 | 1/2 |
| UB1MF-20-16 | 1 5/8 | 1 |

## UB1MFS — UNO Male X BSPP Female Swivel



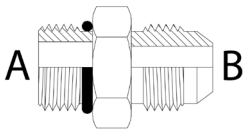

| Part # | UNO M | BSPP F/S |
|---|---|---|
| UB1MFS-04-04 | 7/16 | 1/4 |
| UB1MFS-06-04 | 9/16 | 1/4 |
| UB1MFS-06-06 | 9/16 | 3/8 |
| UB1MFS-08-06 | 3/4 | 3/8 |
| UB1MFS-08-08 | 3/4 | 1/2 |
| UB1MFS-10-06 | 7/8 | 3/8 |
| UB1MFS-10-08 | 7/8 | 1/2 |
| UB1MFS-12-12 | 1 1/16 | 3/4 |
| UB1MFS-12-16 | 1 1/16 | 1 |
| UB1MFS-16-16 | 1 5/16 | 1 |

## UBP1M — UNO Male X BSPP Male




| Part # | UNO M | BSPP M |
|---|---|---|
| UBP1M-04-04 | 7/16 | 1/4 |
| UBP1M-05-04 | 1/2 | 1/4 |
| UBP1M-06-04 | 9/16 | 1/4 |
| UBP1M-06-06 | 9/16 | 3/8 |
| UBP1M-06-08 | 9/16 | 1/2 |
| UBP1M-08-06 | 3/4 | 3/8 |
| UBP1M-08-08 | 3/4 | 1/2 |
| UBP1M-10-06 | 7/8 | 3/8 |
| UBP1M-10-12 | 7/8 | 3/4 |
| UBP1M-12-08 | 1 1/16 | 1/2 |
| UBP1M-12-12 | 1 1/16 | 3/4 |
| UBP1M-12-16 | 1 1/16 | 1 |
| UBP1M-16-12 | 1 5/16 | 3/4 |
| UBP1M-16-16 | 1 5/16 | 1 |
| UBP1M-20-16 | 1 5/8 | 1 |
| UBP1M-20-20 | 1 5/8 | 1 1/4 |

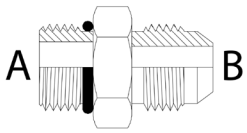
## UJ1M — UNO Male X JIC Male




| Part # | UNO M | JIC M |
|---|---|---|
| UJ1M-04-04 | 7/16 | 7/16 |
| UJ1L53M-04-04** | 7/16 | 7/16 |
| UJ1M-04-06 | 7/16 | 9/16 |
| UJ1M-04-08 | 7/16 | 3/4 |
| UJ1M-05-04 | 1/2 | 7/16 |
| UJ1M-05-05 | 1/2 | 1/2 |
| UJ1M-05-06 | 1/2 | 9/16 |
| UJ1M-06-04 | 9/16 | 7/16 |
| UJ1M-06-05 | 9/16 | 1/2 |
| UJ1L59M-06-06** | 9/16 | 9/16 |
| UJ1M-06-06 | 9/16 | 9/16 |
| UJ1M-06-08 | 9/16 | 3/4 |
| UJ1M-06-10 | 9/16 | 7/8 |
| UJ1M-06-12 | 9/16 | 1 1/16 |
| UJ1M-08-04 | 3/4 | 7/16 |
| UJ1M-08-06 | 3/4 | 9/16 |
| UJ1L69M-08-08** | 3/4 | 3/4 |
| UJ1M-08-08 | 3/4 | 3/4 |
| UJ1M-08-10 | 3/4 | 7/8 |
| UJ1M-08-12 | 3/4 | 1 1/16 |
| UJ1M-10-04 | 7/8 | 7/16 |
| UJ1M-10-06 | 7/8 | 9/16 |

**L=Length eg L46 = 46mm Long

## UJ1M Cont... | UNO Male X JIC Male




| Part # | UNO M | JIC M |
|---|---|---|
| UJ1M-10-08 | 7/8 | 3/4 |
| UJ1M-10-10 | 7/8 | 7/8 |
| UJ1L77M-10-10** | 7/8 | 7/8 |
| UJ1M-10-12 | 7/8 | 1 1/16 |
| UJ1M-10-16 | 7/8 | 1 5/16 |
| UJ1M-12-06 | 1 1/16 | 9/16 |
| UJ1M-12-08 | 1 1/16 | 3/4 |
| UJ1M-12-10 | 1 1/16 | 7/8 |
| UJ1L92M-12-12** | 1 1/16 | 1 1/16 |
| UJ1M-12-12 | 1 1/16 | 1 1/16 |
| UJ1M-12-16 | 1 1/16 | 1 5/16 |
| UJ1M-12-20 | 1 1/16 | 1 5/8 |
| UJ1M-14-06 | 1 3/16 | 9/16 |
| UJ1M-14-12 | 1 3/16 | 1 1/16 |
| UJ1M-16-08 | 1 5/16 | 3/4 |
| UJ1M-16-10 | 1 5/16 | 7/8 |
| UJ1M-16-12 | 1 5/16 | 1 1/16 |
| UJ1M-16-14 | 1 5/16 | 1 3/16 |
| UJ1M-16-16 | 1 5/16 | 1 5/16 |
| UJ1L101M-16-16** | 1 5/16 | 1 5/16 |
| UJ1M-16-20 | 1 5/16 | 1 5/8 |
| UJ1M-20-12 | 1 5/8 | 1 1/16 |
| UJ1M-20-16 | 1 5/8 | 1 5/16 |
| UJ1M-20-20 | 1 5/8 | 1 5/8 |
| UJ1M-20-24 | 1 5/8 | 1 7/8 |
| UJ1M-24-12 | 1 7/8 | 1 1/16 |
| UJ1M-24-16 | 1 7/8 | 1 5/16 |
| UJ1M-24-20 | 1 7/8 | 1 5/8 |
| UJ1M-24-24 | 1 7/8 | 1 7/8 |
| UJ1M-32-32 | 2 1/2 | 2 1/2 |

**L=Length eg L46 = 46mm Long

# Adaptors

## Performance When It Counts.

### Quality valves sourced to suit your system.



***Key Features:***

- Precision control for stable, predictable system behaviour
- Built for demanding environments and heavy duty hydraulic applications
- Reliable performance with proven durability and long service life
- Multiple configurations available including over center, shuttle, pressure-relief, and pilot options
- Flexible sourcing to ensure the best performance match, fast
- Strict quality standards applied across all valve selections
- Ideal for upgrades, replacements, and system optimization

***Advantages:***

- Reduced downtime through dependable operation
- Improved safety and system protection with accurate valve response
- Optimized performance across a wide range of hydraulic setups
- Tailored solutions based on your equipment requirements



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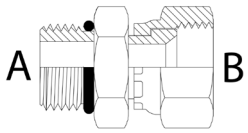
# Adaptors


GEMELS
GEV G1/2
PN500 PR/P
GEVGGT350110000
VBPDE 1/4L
V1 V2
C1 C2
VOSE G1/
NVO2G01
VRM G3/8
VODE G3/8
NVO1G20000

# Adaptors

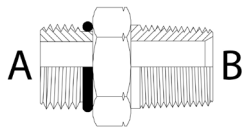


## UJ1MFS — UNO Male X JIC Female Swivel



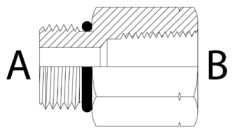

| Part # | UNO M | JIC F/S |
|---|---|---|
| UJ1MFS-04-04 | 7/16 | 7/16 |
| UJ1MFS-05-05 | 1/2 | 1/2 |
| UJ1MFS-06-04 | 9/16 | 7/16 |
| UJ1MFS-06-06 | 9/16 | 9/16 |
| UJ1MFS-06-08 | 9/16 | 3/4 |
| UJ1MFS-08-06 | 3/4 | 9/16 |
| UJ1MFS-08-08 | 3/4 | 3/4 |
| UJ1MFS-08-10 | 3/4 | 7/8 |
| UJ1MFS-10-08 | 7/8 | 3/4 |
| UJ1MFS-10-10 | 7/8 | 7/8 |
| UJ1MFS-12-12 | 1 1/16 | 1 1/16 |
| UJ1MFS-16-16 | 1 5/16 | 1 5/16 |
| UJ1MFS-20-20 | 1 5/8 | 1 5/8 |
| UJ1MFS-24-24 | 1 7/8 | 1 7/8 |

## UN1M — UNO Male X NPT Male Nipple




| Part # | UNO M | NPT M |
|---|---|---|
| UN1M-12-16 | 1 1/16 | 1 |
| UN1M-16-16 | 1 5/16 | 1 |

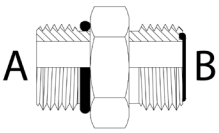
## UN1MF — UNO Male X NPT Female




| Part # | UNO M | NPT F |
|---|---|---|
| UN1MF-06-06 | 9/16 | 3/8 |
| UN1MF-08-08 | 3/4 | 1/2 |
| UN1MF-12-08 | 1 1/16 | 1/2 |

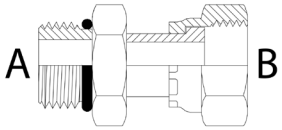

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## UORS1M — UNO Male X ORFS Male



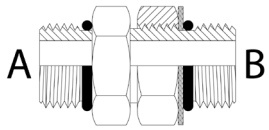

| Part # | UNO M | ORFS M |
|---|---|---|
| UORS1M-04-04 | 7/16 | 9/16 |
| UORS1M-04-06 | 7/16 | 11/16 |
| UORS1M-04-08 | 7/16 | 13/16 |
| UORS1M-06-04 | 9/16 | 9/16 |
| UORS1M-06-06 | 9/16 | 11/16 |
| UORS1M-06-08 | 9/16 | 13/16 |
| UORS1M-08-04 | 3/4 | 9/16 |
| UORS1M-08-06 | 3/4 | 11/16 |
| UORS1M-08-08 | 3/4 | 13/16 |
| UORS1M-08-10 | 3/4 | 1 |
| UORS1M-08-12 | 3/4 | 1 3/16 |
| UORS1M-10-06 | 7/8 | 11/16 |
| UORS1M-10-08 | 7/8 | 13/16 |
| UORS1M-10-10 | 7/8 | 1 |
| UORS1M-10-12 | 7/8 | 1 3/16 |
| UORS1M-12-08 | 1 1/16 | 13/16 |
| UORS1M-12-10 | 1 1/16 | 1 |
| UORS1M-12-12 | 1 1/16 | 1 3/16 |
| UORS1M-12-16 | 1 1/16 | 1 7/16 |
| UORS1M-16-12 | 1 5/16 | 1 3/16 |
| UORS1M-16-16 | 1 5/16 | 1 7/16 |
| UORS1M-16-20 | 1 5/16 | 1 11/16 |
| UORS1M-20-16 | 1 5/8 | 1 7/16 |
| UORS1M-20-20 | 1 5/8 | 1 11/16 |
| UORS1M-20-24 | 1 5/8 | 2 |
| UORS1M-24-20 | 1 7/8 | 1 11/16 |
| UORS1M-24-24 | 1 7/8 | 2 |

## UORS1MFS — UNO Male X ORFS Female Swivel




| Part # | UNO M | ORFS F/S |
|---|---|---|
| UORS1MFS-04-04 | 7/16 | 9/16 |
| UORS1MFS-06-06 | 9/16 | 11/16 |
| UORS1MFS-08-08 | 3/4 | 13/16 |
| UORS1MFS-10-10 | 7/8 | 1 |
| UORS1MFS-12-12 | 1 1/16 | 1 3/16 |
| UORS1MFS-16-16 | 1 5/16 | 1 7/16 |

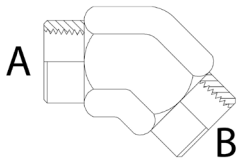
## UPU1M — UNO Male X UNO Positional Male




| Part # | UNO M | UNO M |
|---|---|---|
| UPU1M-06-06 | 9/16 | 9/16 |
| UPU1M-08-08 | 3/4 | 3/4 |

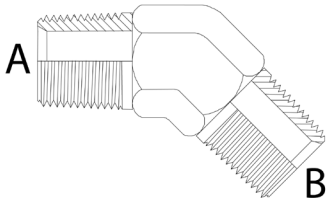
# 45° Adaptors

## B4F — BSPT Female X BSPT Female 45°



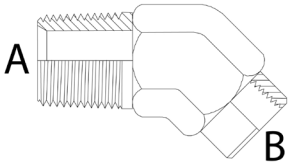

| Part # | BSPT F | BSPT F |
|---|---|---|
| B4F-02-02 | 1/8 | 1/8 |
| B4F-04-04 | 1/4 | 1/4 |
| B4F-06-06 | 3/8 | 3/8 |
| B4F-08-08 | 1/2 | 1/2 |
| B4F-12-12 | 3/4 | 3/4 |
| B4F-16-16 | 1 | 1 |

## B4M — BSPT Male X BSPT Male 45°




| Part # | BSPT M | BSPT M |
|---|---|---|
| B4M-02-02 | 1/8 | 1/8 |
| B4M-02-04 | 1/8 | 1/4 |
| B4M-04-04 | 1/4 | 1/4 |
| B4M-04-06 | 1/4 | 3/8 |
| B4M-06-06 | 3/8 | 3/8 |
| B4M-08-08 | 1/2 | 1/2 |
| B4M-08-12 | 1/2 | 3/4 |
| B4M-12-12 | 3/4 | 3/4 |
| B4M-12-16 | 3/4 | 1 |
| B4M-16-16 | 1 | 1 |
| B4M-20-20 | 1 1/4 | 1 1/4 |
| B4M-24-24 | 1 1/2 | 1 1/2 |
| B4M-32-32 | 2 | 2 |

## B4MF — BSPT Male X BSPT Female 45°

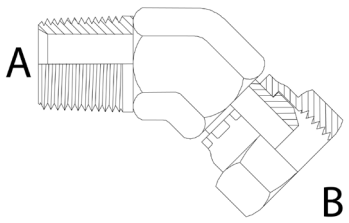



| Part # | BSPT M | BSPT F |
|---|---|---|
| B4MF-02-02 | 1/8 | 1/8 |
| B4MF-04-02 | 1/4 | 1/8 |
| B4MF-04-04 | 1/4 | 1/4 |
| B4MF-06-06 | 3/8 | 3/8 |
| B4MF-08-08 | 1/2 | 1/2 |
| B4MF-12-12 | 3/4 | 3/4 |
| B4MF-16-16 | 1 | 1 |

# Adaptors

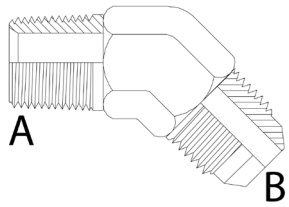


## B4MFS — BSPT Male X BSPP Female Swivel 45°




| Part # | BSPT M | BSPP F/S |
|---|---|---|
| B4MFS-02-02 | 1/8 | 1/8 |
| B4MFS-04-04 | 1/4 | 1/4 |
| B4MFS-06-06 | 3/8 | 3/8 |
| B4MFS-08-08 | 1/2 | 1/2 |
| B4MFS-12-12 | 3/4 | 3/4 |
| B4MFS-16-16 | 1 | 1 |
| B4MFS-20-20 | 1 1/4 | 1 1/4 |
| B4MFS-24-24 | 1 1/2 | 1 1/2 |

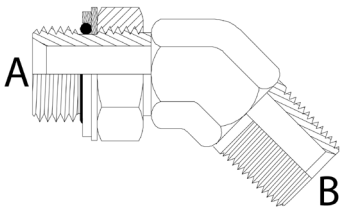
## BJ4M — BSPT Male X JIC Male 45°




| Part # | BSPT M | JIC M |
|---|---|---|
| BJ4M-02-04 | 1/8 | 7/16 |
| BJ4M-02-06 | 1/8 | 9/16 |
| BJ4M-04-04 | 1/4 | 7/16 |
| BJ4M-04-06 | 1/4 | 9/16 |
| BJ4M-04-08 | 1/4 | 3/4 |
| BJ4M-06-04 | 3/8 | 7/16 |
| BJ4M-06-06 | 3/8 | 9/16 |
| BJ4M-06-08 | 3/8 | 3/4 |
| BJ4M-06-10 | 3/8 | 7/8 |
| BJ4M-08-06 | 1/2 | 9/16 |
| BJ4M-08-08 | 1/2 | 3/4 |
| BJ4M-08-10 | 1/2 | 7/8 |
| BJ4M-08-12 | 1/2 | 1 1/16 |
| BJ4M-12-08 | 3/4 | 3/4 |
| BJ4M-12-10 | 3/4 | 7/8 |
| BJ4M-12-12 | 3/4 | 1 1/16 |
| BJ4M-12-16 | 3/4 | 1 5/16 |
| BJ4M-16-12 | 1 | 1 1/16 |
| BJ4M-16-16 | 1 | 1 5/16 |
| BJ4M-20-20 | 1 1/4 | 1 5/8 |
| BJ4M-24-24 | 1 1/2 | 1 7/8 |
| BJ4M-32-32 | 2 | 2 1/2 |

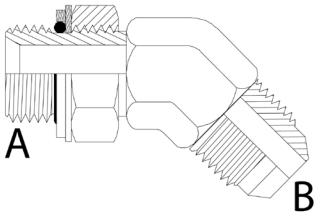

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## BPB4M — BSPP Male X BSPT Male 45°



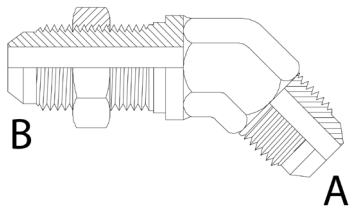

| Part # | BSPP M | BSPT M |
|---|---|---|
| BPB4M-08-08 | 1/2 | 1/2 |
| BPB4M-12-12 | 3/4 | 3/4 |
| BPB4M-16-16 | 1 | 1 |

## BPJ4M — BSPP Male X JIC Male 45°



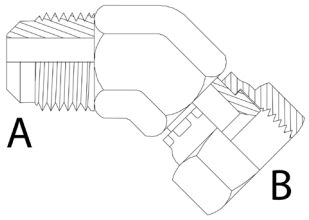

| Part # | BSPP M | JIC M |
|---|---|---|
| BPJ4M-02-04 | 1/8 | 7/16 |
| BPJ4M-04-04 | 1/4 | 7/16 |
| BPJ4M-04-06 | 1/4 | 9/16 |
| BPJ4M-04-08 | 1/4 | 3/4 |
| BPJ4M-06-04 | 3/8 | 7/16 |
| BPJ4M-06-06 | 3/8 | 9/16 |
| BPJ4M-06-08 | 3/8 | 3/4 |
| BPJ4M-08-06 | 1/2 | 9/16 |
| BPJ4M-08-08 | 1/2 | 3/4 |
| BPJ4M-08-10 | 1/2 | 7/8 |
| BPJ4M-08-12 | 1/2 | 1 1/16 |
| BPJ4M-12-08 | 3/4 | 3/4 |
| BPJ4M-12-12 | 3/4 | 1 1/16 |
| BPJ4M-16-12 | 1 | 1 1/16 |
| BPJ4M-16-16 | 1 | 1 5/16 |
| BPJ4M-20-20 | 1 1/4 | 1 5/8 |
| BPJ4M-24-24 | 1 1/2 | 1 7/8 |

## J40M — JIC Male X JIC Male Bulkhead 45°



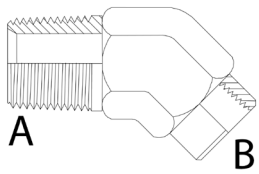

| Part # | JIC M | JIC M BH |
|---|---|---|
| J40M-04-04 | 7/16 | 7/16 |
| J40M-05-05 | 1/2 | 1/2 |
| J40M-06-06 | 9/16 | 9/16 |
| J40M-08-08 | 3/4 | 3/4 |
| J40M-10-10 | 7/8 | 7/8 |
| J40M-12-12 | 1 1/16 | 1 1/16 |
| J40M-16-16 | 1 5/16 | 1 5/16 |
| J40M-20-20 | 1 5/8 | 1 5/8 |
| J40M-24-24 | 1 7/8 | 1 7/8 |

## J4MFS — JIC Male X JIC Female Swivel 45°



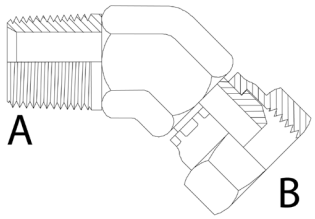

| Part # | JIC M | JIC F/S |
|---|---|---|
| J4MFS-04-04 | 7/16 | 7/16 |
| J4MFS-05-05 | 1/2 | 1/2 |
| J4MFS-06-06 | 9/16 | 9/16 |
| J4MFS-08-08 | 3/4 | 3/4 |
| J4MFS-10-10 | 7/8 | 7/8 |
| J4MFS-12-12 | 1 1/16 | 1 1/16 |
| J4MFS-16-16 | 1 5/16 | 1 5/16 |
| J4MFS-20-20 | 1 5/8 | 1 5/8 |
| J4MFS-24-24 | 1 7/8 | 1 7/8 |
| J4MFS-32-32 | 2 1/2 | 2 1/2 |

## N4MF — NPT Male X NPT Female 45°



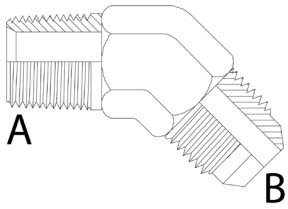

| Part # | NPT M | NPT F |
|---|---|---|
| N4MF-02-02 | 1/8 | 1/8 |
| N4MF-04-04 | 1/4 | 1/4 |
| N4MF-06-06 | 3/8 | 3/8 |
| N4MF-08-08 | 1/2 | 1/2 |
| N4MF-12-12 | 3/4 | 3/4 |
| N4MF-16-16 | 1 | 1 |
| N4MF-20-20 | 1 1/4 | 1 1/4 |
| N4MF-24-24 | 1 1/2 | 1 1/2 |

## N4MFS — NPT Male X NPSM Female Swivel 45°



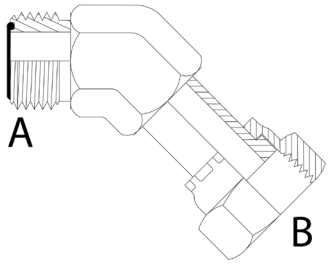

| Part # | NPT M | NPSM F/S |
|---|---|---|
| N4MFS-02-02 | 1/8 | 1/8 |
| N4MFS-04-04 | 1/4 | 1/4 |
| N4MFS-06-06 | 3/8 | 3/8 |
| N4MFS-08-08 | 1/2 | 1/2 |
| N4MFS-12-12 | 3/4 | 3/4 |
| N4MFS-16-16 | 1 | 1 |

## NJ4M — NPT Male X JIC Male 45°



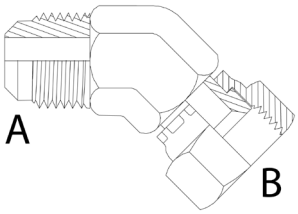

| Part # | NPT M | JIC M |
|---|---|---|
| NJ4M-02-04 | 1/8 | 7/16 |
| NJ4M-02-05 | 1/8 | 1/2 |
| NJ4M-02-06 | 1/8 | 9/16 |
| NJ4M-04-04 | 1/4 | 7/16 |
| NJ4M-04-06 | 1/4 | 9/16 |
| NJ4M-04-08 | 1/4 | 3/4 |
| NJ4M-06-04 | 3/8 | 7/16 |
| NJ4M-06-06 | 3/8 | 9/16 |
| NJ4M-06-08 | 3/8 | 3/4 |
| NJ4M-06-10 | 3/8 | 7/8 |
| NJ4M-08-06 | 1/2 | 9/16 |
| NJ4M-08-08 | 1/2 | 3/4 |
| NJ4M-08-10 | 1/2 | 7/8 |
| NJ4M-08-12 | 1/2 | 1 1/16 |
| NJ4M-12-08 | 3/4 | 3/4 |
| NJ4M-12-10 | 3/4 | 7/8 |
| NJ4M-12-12 | 3/4 | 1 1/16 |
| NJ4M-12-16 | 3/4 | 1 5/16 |
| NJ4M-16-12 | 1 | 1 1/16 |
| NJ4M-16-16 | 1 | 1 5/16 |
| NJ4M-16-20 | 1 | 1 5/8 |
| NJ4M-20-16 | 1 1/4 | 1 5/16 |
| NJ4M-20-20 | 1 1/4 | 1 5/8 |
| NJ4M-24-24 | 1 1/2 | 1 7/8 |
| NJ4M-32-32 | 2 | 2 1/2 |

## ORS4MFS — ORFS Male X ORFS Female Swivel 45°



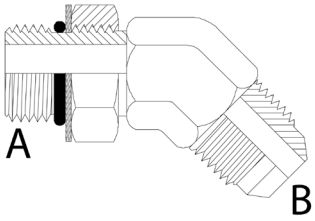

| Part # | ORFS M | ORFS F/S |
|---|---|---|
| ORS4MFS-04-04 | 9/16 | 9/16 |
| ORS4MFS-06-06 | 11/16 | 11/16 |
| ORS4MFS-08-08 | 13/16 | 13/16 |
| ORS4MFS-10-10 | 1 | 1 |
| ORS4MFS-12-12 | 1 3/16 | 1 3/16 |
| ORS4MFS-16-16 | 1 7/16 | 1 7/16 |
| ORS4MFS-20-20 | 1 11/16 | 1 11/16 |
| ORS4MFS-24-24 | 2 | 2 |

## S4MFS — SAE Male X SAE Female Swivel 45°



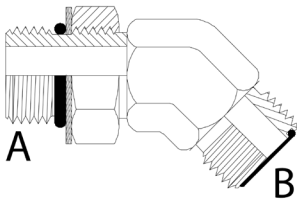

| Part # | SAE M | SAE F/S |
|---|---|---|
| S4MFS-06-06 | 5/8 | 5/8 |
| S4MFS-12-12 | 1 1/16 | 1 1/16 |

## UJ4M — UNO Male X JIC Male 45°




| Part # | UNO M | JIC M |
|---|---|---|
| UJ4M-04-04 | 7/16 | 7/16 |
| UJ4M-04-06 | 7/16 | 9/16 |
| UJ4M-06-04 | 9/16 | 7/16 |
| UJ4M-06-06 | 9/16 | 9/16 |
| UJ4M-06-08 | 9/16 | 3/4 |
| UJ4M-08-06 | 3/4 | 9/16 |
| UJ4M-08-08 | 3/4 | 3/4 |
| UJ4M-08-10 | 3/4 | 7/8 |
| UJ4M-08-12 | 3/4 | 1 1/16 |
| UJ4M-10-08 | 7/8 | 3/4 |
| UJ4M-10-10 | 7/8 | 7/8 |
| UJ4M-10-12 | 7/8 | 1 1/16 |
| UJ4M-12-08 | 1 1/16 | 3/4 |
| UJ4M-12-10 | 1 1/16 | 7/8 |
| UJ4M-12-12 | 1 1/16 | 1 1/16 |
| UJ4M-12-16 | 1 1/16 | 1 5/16 |
| UJ4M-16-12 | 1 5/16 | 1 1/16 |
| UJ4M-16-16 | 1 5/16 | 1 5/16 |
| UJ4M-20-20 | 1 5/8 | 1 5/8 |
| UJ4M-24-24 | 1 7/8 | 1 7/8 |

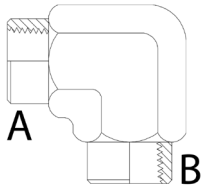
## UORS4M — UNO Male X ORFS Male 45°




| Part # | UNO M | ORFS M |
|---|---|---|
| UORS4M-04-04 | 7/16 | 9/16 |
| UORS4M-06-06 | 9/16 | 11/16 |
| UORS4M-08-06 | 3/4 | 11/16 |
| UORS4M-08-08 | 3/4 | 13/16 |
| UORS4M-08-10 | 3/4 | 1 |
| UORS4M-10-08 | 7/8 | 13/16 |
| UORS4M-10-10 | 7/8 | 1 |
| UORS4M-12-12 | 1 1/16 | 1 3/16 |
| UORS4M-16-16 | 1 5/16 | 1 7/16 |

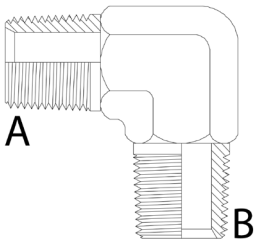
## 90° Adaptors

### B9F — BSPT Female X BSPT Female 90°




| Part # | BSPT F | BSPT F |
|---|---|---|
| B9F-02-02 | 1/8 | 1/8 |
| B9F-04-04 | 1/4 | 1/4 |
| B9F-06-06 | 3/8 | 3/8 |
| B9F-06-08 | 3/8 | 1/2 |
| B9F-08-08 | 1/2 | 1/2 |
| B9F-12-12 | 3/4 | 3/4 |
| B9F-16-16 | 1 | 1 |
| B9F-20-20 | 1 1/4 | 1 1/4 |
| B9F-24-24 | 1 1/2 | 1 1/2 |
| B9F-32-32 | 2 | 2 |

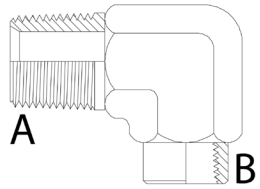
### B9M — BSPT Male X BSPT Male 90°




| Part # | BSPT M | BSPT M |
|---|---|---|
| B9M-02-02 | 1/8 | 1/8 |
| B9M-02-04 | 1/8 | 1/4 |
| B9M-02-04SS* | 1/8 | 1/4 |
| B9M-04-04 | 1/4 | 1/4 |
| B9M-04-04SS* | 1/4 | 1/4 |
| B9M-04-06 | 1/4 | 3/8 |
| B9M-04-08 | 1/4 | 1/2 |
| B9M-06-06 | 3/8 | 3/8 |
| B9M-06-08 | 3/8 | 1/2 |
| B9M-08-08 | 1/2 | 1/2 |
| B9M-08-12 | 1/2 | 3/4 |
| B9M-08-16 | 1/2 | 1 |
| B9M-12-12 | 3/4 | 3/4 |
| B9M-12-16 | 3/4 | 1 |
| B9M-12-20 | 3/4 | 1 1/4 |
| B9M-16-16 | 1 | 1 |
| B9M-16-20 | 1 | 1 1/4 |
| B9M-20-20 | 1 1/4 | 1 1/4 |
| B9M-20-24 | 1 1/4 | 1 1/2 |
| B9M-24-24 | 1 1/2 | 1 1/2 |
| B9M-32-32 | 2 | 2 |

* SS = Stainless Steel

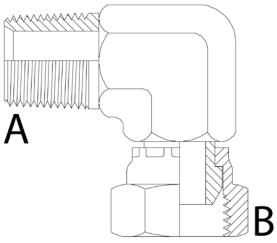
## B9MF — BSPT Male X BSPT Female 90°




| Part # | BSPT M | BSPT F |
|---|---|---|
| B9MF-02-02 | 1/8 | 1/8 |
| B9MF-04-04 | 1/4 | 1/4 |
| B9MF-04-04SS* | 1/4 | 1/4 |
| B9MF-06-06 | 3/8 | 3/8 |
| B9MF-06-08 | 3/8 | 1/2 |
| B9MF-08-08 | 1/2 | 1/2 |
| B9MF-08-08SS* | 1/2 | 1/2 |
| B9MF-08-12 | 1/2 | 3/4 |
| B9MF-12-12 | 3/4 | 3/4 |
| B9MF-12-12SS* | 3/4 | 3/4 |
| B9MF-16-16 | 1 | 1 |
| B9MF-20-20 | 1 1/4 | 1 1/4 |
| B9MF-24-24 | 1 1/2 | 1 1/2 |
| B9MF-32-32 | 2 | 2 |

* SS = Stainless Steel

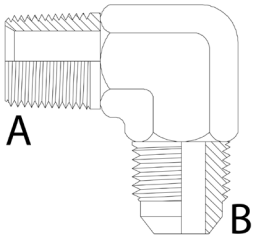
## B9MFS — BSPT Male X BSPP Female Swivel 90°




| Part # | BSPT M | BSPP F/S |
|---|---|---|
| B9MFS-02-02 | 1/8 | 1/8 |
| B9MFS-04-04 | 1/4 | 1/4 |
| B9MFS-04-04SS* | 1/4 | 1/4 |
| B9MFS-04-06 | 1/4 | 3/8 |
| B9MFS-06-06 | 3/8 | 3/8 |
| B9MFS-06-08 | 3/8 | 1/2 |
| B9MFS-08-06 | 1/2 | 3/8 |
| B9MFS-08-08 | 1/2 | 1/2 |
| B9MFS-12-08 | 3/4 | 1/2 |
| B9MFS-12-12 | 3/4 | 3/4 |
| B9MFS-12-16 | 3/4 | 1 |
| B9MFS-16-16 | 1 | 1 |
| B9MFS-20-20 | 1 1/4 | 1 1/4 |
| B9MFS-24-24 | 1 1/2 | 1 1/2 |
| B9MFS-32-32 | 2 | 2 |

* SS = Stainless Steel

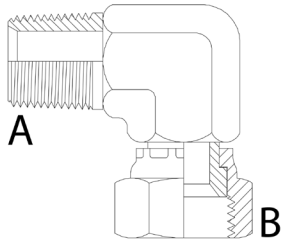
## BJ9M — BSPT Male X JIC Male 90°




| Part # | BSPT M | JIC M |
|---|---|---|
| BJ9M-02-04 | 1/8 | 7/16 |
| BJ9L30M-02-04** | 1/8 | 7/16 |
| BJ9L40M-02-04** | 1/8 | 7/16 |
| BJ9L50M-02-04** | 1/8 | 7/16 |
| BJ9L58M-02-04** | 1/8 | 7/16 |
| BJ9M-02-05 | 1/8 | 1/2 |
| BJ9M-02-06 | 1/8 | 9/16 |
| BJ9M-04-04 | 1/4 | 7/16 |
| BJ9M-04-06 | 1/4 | 9/16 |
| BJ9M-04-08 | 1/4 | 3/4 |
| BJ9M-06-04 | 3/8 | 7/16 |
| BJ9M-06-05 | 3/8 | 1/2 |
| BJ9M-06-06 | 3/8 | 9/16 |
| BJ9M-06-08 | 3/8 | 3/4 |
| BJ9M-06-10 | 3/8 | 7/8 |
| BJ9M-08-04 | 1/2 | 7/16 |
| BJ9M-08-06 | 1/2 | 9/16 |
| BJ9M-08-08 | 1/2 | 3/4 |
| BJ9M-08-10 | 1/2 | 7/8 |
| BJ9M-08-12 | 1/2 | 1 1/16 |
| BJ9M-12-06 | 3/4 | 9/16 |
| BJ9M-12-08 | 3/4 | 3/4 |
| BJ9M-12-10 | 3/4 | 7/8 |
| BJ9M-12-12 | 3/4 | 1 1/16 |
| BJ9M-12-16 | 3/4 | 1 5/16 |
| BJ9M-16-12 | 1 | 1 1/16 |
| BJ9M-16-16 | 1 | 1 5/16 |
| BJ9M-16-20 | 1 | 1 5/8 |
| BJ9M-20-16 | 1 1/4 | 1 5/16 |
| BJ9M-20-20 | 1 1/4 | 1 5/8 |
| BJ9M-20-24 | 1 1/4 | 1 7/8 |
| BJ9M-24-20 | 1 1/2 | 1 5/8 |
| BJ9M-24-24 | 1 1/2 | 1 7/8 |
| BJ9M-32-32 | 2 | 2 1/2 |

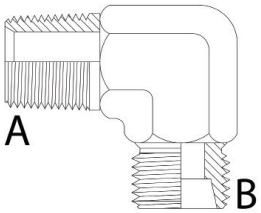
** L = Long drop. eg L40 = 40mm drop.

## BJ9MFS — BSPT Male X JIC Female Swivel 90°



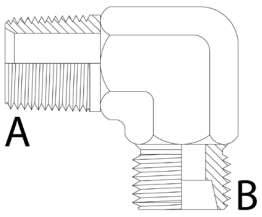

| Part # | BSPT M | JIC F/S |
|---|---|---|
| BJ9MFS-02-04 | 1/8 | 7/16 |
| BJ9MFS-04-04 | 1/4 | 7/16 |
| BJ9MFS-04-06 | 1/4 | 9/16 |
| BJ9MFS-06-06 | 3/8 | 9/16 |
| BJ9MFS-06-08 | 3/8 | 3/4 |
| BJ9MFS-08-08 | 1/2 | 3/4 |
| BJ9MFS-12-12 | 3/4 | 1 1/16 |
| BJ9MFS-12-16 | 3/4 | 1 5/16 |
| BJ9MFS-16-16 | 1 | 1 5/16 |

## BMH9M — BSPT Male X Metric Heavy (S) Male 90°



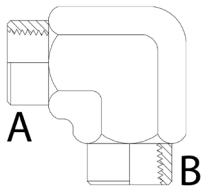

| Part # | BSPT M | Metric Heavy M |
|---|---|---|
| BMH9M-04-14M | 1/4 | M14X1.5 |
| BMH9M-04-16M | 1/4 | M16XX1.5 |
| BMH9M-06-18M | 3/8 | M18XX1.5 |
| BMH9M-06-20M | 3/8 | M20X1.5 |
| BMH9M-06-22M | 3/8 | M22X1.5 |
| BMH9M-06-24M | 3/8 | M24X1.5 |
| BMH9M-08-20M | 1/2 | M20X1.5 |
| BMH9M-08-22M | 1/2 | M22X1.5 |
| BMH9M-08-24M | 1/2 | M24X1.5 |
| BMH9M-08-30M | 1/2 | M30X2 |
| BMH9M-12-30M | 3/4 | M30X2 |
| BMH9M-12-36M | 3/4 | M36X2 |
| BMH9M-16-36M | 1 | M36X2 |
| BMH9M-16-42M | 1 | M42X2 |
| BMH9M-20-42M | 1 1/4 | M42X2 |
| BMH9M-24-52M | 1 1/2 | M52X2 |

## BML9M — BSPT Male X Metric Light (L) Male 90°



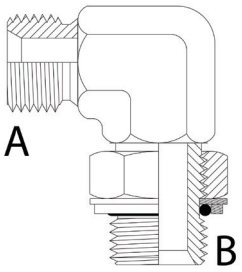

| Part # | BSPT M | Metric Light M |
|---|---|---|
| BML9M-02-12M | 1/8 | M12X1.5 |
| BML9M-02-14M | 1/8 | M14X1.5 |
| BML9M-04-12M | 1/4 | M12X1.5 |
| BML9M-04-14M | 1/4 | M14X1.5 |
| BML9M-04-16M | 1/4 | M16X1.5 |
| BML9M-04-18M | 1/4 | M18X1.5 |
| BML9M-06-16M | 3/8 | M16X1.5 |
| BML9M-06-18M | 3/8 | M18X1.5 |
| BML9M-06-22M | 3/8 | M22X1.5 |
| BML9M-08-16M | 1/2 | M16X1.5 |
| BML9M-08-18M | 1/2 | M18X1.5 |
| BML9M-08-22M | 1/2 | M22X1.5 |
| BML9M-08-26M | 1/2 | M26X1.5 |
| BML9M-12-26M | 3/4 | M26X1.5 |
| BML9M-12-30M | 3/4 | M30X2 |
| BML9M-16-36M | 1 | M36X2 |
| BML9M-20-45M | 1 1/4 | M45X2 |
| BML9M-24-52M | 1 1/2 | M52X2 |

## BP9F — BSPP Female X BSPP Female 90°




| Part # | BSPP F | BSPP F |
|---|---|---|
| BP9F-06-06 | 3/8 | 3/8 |
| BP9F-08-08 | 1/2 | 1/2 |

## BP9M — BSPP Male X BSPP Male 90°

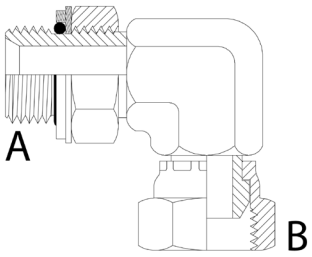



| Part # | BSPP M | BSPP M |
|---|---|---|
| BP9M-04-04 | 1/4 | 1/4 |
| BP9M-06-06 | 3/8 | 3/8 |
| BP9M-08-08 | 1/2 | 1/2 |



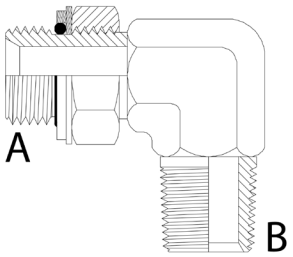
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## BP9MFS — BSPP Male X BSPP Female Swivel 90°



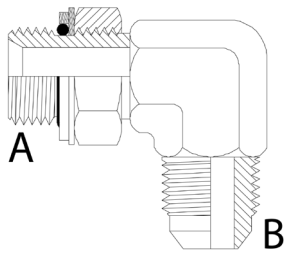

| Part # | BSPP M | BSPP F/S |
|---|---|---|
| BP9MFS-04-04 | 1/4 | 1/4 |
| BP9MFS-06-06 | 3/8 | 3/8 |
| BP9MFS-08-08 | 1/2 | 1/2 |
| BP9MFS-12-12 | 3/4 | 3/4 |
| BP9MFS-16-16 | 1 | 1 |
| BP9MFS-20-20 | 1 1/4 | 1 1/4 |

## BPB9M — BSPP Male X BSPT Male 90°



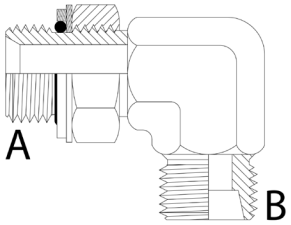

| Part # | BSPP M | BSPT M |
|---|---|---|
| BPB9M-02-02 | 1/8 | 1/8 |
| BPB9M-04-04 | 1/4 | 1/4 |
| BPB9M-04-06 | 1/4 | 3/8 |
| BPB9M-06-04 | 3/8 | 1/4 |
| BPB9M-06-06 | 3/8 | 3/8 |
| BPB9M-06-08 | 3/8 | 1/2 |
| BPB9M-08-06 | 1/2 | 3/8 |
| BPB9M-08-08 | 1/2 | 1/2 |
| BPB9M-08-12 | 1/2 | 3/4 |
| BPB9M-12-08 | 3/4 | 1/2 |
| BPB9M-12-12 | 3/4 | 3/4 |
| BPB9M-12-16 | 3/4 | 1 |
| BPB9M-16-12 | 1 | 3/4 |
| BPB9M-16-16 | 1 | 1 |
| BPB9M-20-16 | 1 1/4 | 1 |
| BPB9M-20-20 | 1 1/4 | 1 1/4 |
| BPB9M-24-24 | 1 1/2 | 1 1/2 |
| BPB9M-32-32 | 2 | 2 |

## BPJ9M — BSPP Male X JIC Male 90°



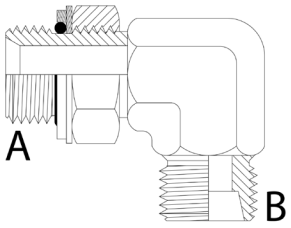

| Part # | BSPP M | JIC M |
|---|---|---|
| BPJ9M-02-04 | 1/8 | 7/16 |
| BPJ9M-02-05 | 1/8 | 1/2 |
| BPJ9M-02-06 | 1/8 | 9/16 |
| BPJ9M-04-04 | 1/4 | 7/16 |
| BPJ9M-04-05 | 1/4 | 1/2 |
| BPJ9M-04-06 | 1/4 | 9/16 |
| BPJ9M-04-08 | 1/4 | 3/4 |
| BPJ9M-06-04 | 3/8 | 7/16 |
| BPJ9M-06-06 | 3/8 | 9/16 |
| BPJ9M-06-08 | 3/8 | 3/4 |
| BPJ9M-06-10 | 3/8 | 7/8 |
| BPJ9M-08-04 | 1/2 | 7/16 |
| BPJ9M-08-06 | 1/2 | 9/16 |
| BPJ9M-08-08 | 1/2 | 3/4 |
| BPJ9M-08-10 | 1/2 | 7/8 |
| BPJ9M-08-12 | 1/2 | 1 1/16 |
| BPJ9M-12-06 | 3/4 | 9/16 |
| BPJ9M-12-08 | 3/4 | 3/4 |
| BPJ9M-12-10 | 3/4 | 7/8 |
| BPJ9M-12-12 | 3/4 | 1 1/16 |
| BPJ9M-12-16 | 3/4 | 1 5/16 |
| BPJ9M-16-12 | 1 | 1 1/16 |
| BPJ9M-16-16 | 1 | 1 5/16 |
| BPJ9M-16-20 | 1 | 1 5/8 |
| BPJ9M-16-24 | 1 | 1 7/8 |
| BPJ9M-20-12 | 1 1/4 | 1 1/16 |
| BPJ9M-20-16 | 1 1/4 | 1 5/16 |
| BPJ9M-20-20 | 1 1/4 | 1 5/8 |
| BPJ9M-20-24 | 1 1/4 | 1 7/8 |
| BPJ9M-24-16 | 1 1/2 | 1 5/16 |
| BPJ9M-24-20 | 1 1/2 | 1 5/8 |
| BPJ9M-24-24 | 1 1/2 | 1 7/8 |
| BPJ9M-32-32 | 2 | 2 1/2 |

## BPMH9M — BSPP Male X Metric Heavy (S) Male 90°




| Part # | BSPP M | Metric Heavy M |
|---|---|---|
| BPMH9M-04-14M | 1/4 | M14X1.5 |
| BPMH9M-04-16M | 1/4 | M16X1.5 |
| BPMH9M-06-18M | 3/8 | M18X1.5 |
| BPMH9M-06-20M | 3/8 | M20X1.5 |
| BPMH9M-08-22M | 1/2 | M22X1.5 |
| BPMH9M-08-24M | 1/2 | M24X1.5 |
| BPMH9M-12-30M | 3/4 | M30X2 |
| BPMH9M-16-36M | 1 | M36X2 |
| BPMH9M-20-42M | 1 1/4 | M42X2 |
| BPMH9M-24-52M | 1 1/2 | M52X2 |

## BPML9M — BSPP Male X Metric Light (L) Male 90°

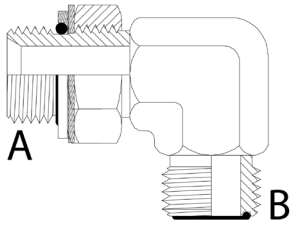



| Part # | BSPP M | Metric Light M |
|---|---|---|
| BPML9M-02-12M | 1/8 | M12X1.5 |
| BPML9M-04-14M | 1/4 | M14X1.5 |
| BPML9M-04-16M | 1/4 | M16X1.5 |
| BPML9M-04-18M | 1/4 | M18X1.5 |
| BPML9M-06-16M | 3/8 | M16X1.5 |
| BPML9M-06-18M | 3/8 | M18X1.5 |
| BPML9M-08-18M | 1/2 | M18X1.5 |
| BPML9M-08-22M | 1/2 | M22X1.5 |
| BPML9M-08-26M | 1/2 | M26X1.5 |
| BPML9M-12-22M | 3/4 | M22X1.5 |
| BPML9M-12-26M | 3/4 | M26X1.5 |
| BPML9M-12-30M | 3/4 | M30X2 |
| BPML9M-16-36M | 1 | M36X2 |
| BPML9M-20-45M | 1 1/4 | M45X2 |

# Adaptors

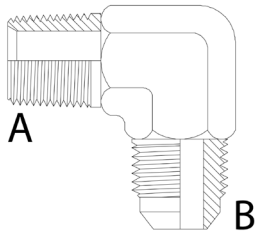


## BPORS9M — BSPP Male X ORFS Male 90°



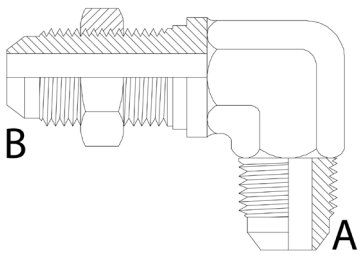

| Part # | BSPP M | ORFS M |
|---|---|---|
| BPORS9M-02-04 | 1/8 | 9/16 |
| BPORS9M-04-04 | 1/4 | 9/16 |
| BPORS9M-04-06 | 1/4 | 11/16 |
| BPORS9M-06-04 | 3/8 | 9/16 |
| BPORS9M-06-06 | 3/8 | 11/16 |
| BPORS9M-06-08 | 3/8 | 13/16 |
| BPORS9M-08-08 | 1/2 | 13/16 |
| BPORS9M-08-12 | 1/2 | 1 3/16 |
| BPORS9M-08-10 | 1/2 | 1 |
| BPORS9M-12-08 | 3/4 | 13/16 |
| BPORS9M-12-12 | 3/4 | 1 3/16 |
| BPORS9M-16-16 | 1 | 1 7/16 |
| BPORS9M-20-20 | 1 1/4 | 1 11/16 |

## BS9M — BSPT Male X SAE Male 90°




| Part # | BSPT M | SAE M |
|---|---|---|
| BS9M-06-06 | 3/8 | 5/8 |

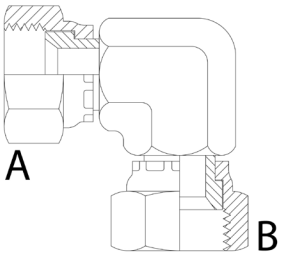
## J90M — JIC Male X JIC Male Bulkhead 90°




| Part # | JIC | JIC BH |
|---|---|---|
| J90M-04-04 | 7/16 | 7/16 |
| J90M-05-05 | 1/2 | 1/2 |
| J90M-06-06 | 9/16 | 9/16 |
| J90M-08-08 | 3/4 | 3/4 |
| J90M-10-10 | 7/8 | 7/8 |
| J90M-12-12 | 1 1/16 | 1 1/16 |
| J90M-16-16 | 1 5/16 | 1 5/16 |
| J90M-20-20 | 1 5/8 | 1 5/8 |
| J90M-24-24 | 1 7/8 | 1 7/8 |

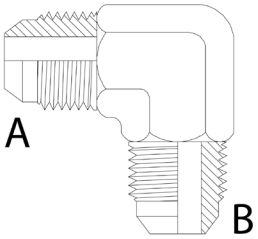

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## J9FS — JIC Female Swivel X JIC Female Swivel 90°



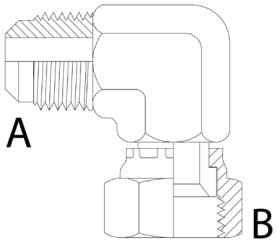

| Part # | JIC F/S | JIC F/S |
|---|---|---|
| J9FS-04-04 | 7/16 | 7/16 |
| J9FS-06-06 | 9/16 | 9/16 |
| J9FS-08-08 | 3/4 | 3/4 |
| J9FS-10-10 | 7/8 | 7/8 |
| J9FS-12-12 | 1 1/16 | 1 1/16 |
| J9FS-16-16 | 1 5/16 | 1 5/16 |

## J9M — JIC Male X JIC Male 90°




| Part # | JIC M | JIC M |
|---|---|---|
| J9M-04-04 | 7/16 | 7/16 |
| J9M-04-06 | 7/16 | 9/16 |
| J9M-06-06 | 9/16 | 9/16 |
| J9M-06-08 | 9/16 | 3/4 |
| J9M-08-08 | 3/4 | 3/4 |
| J9M-08-10 | 3/4 | 7/8 |
| J9M-08-12 | 3/4 | 1 1/16 |
| J9M-10-10 | 7/8 | 7/8 |
| J9M-10-12 | 7/8 | 1 1/16 |
| J9M-12-12 | 1 1/16 | 1 1/16 |
| J9M-12-16 | 1 1/16 | 1 5/16 |
| J9M-16-16 | 1 5/16 | 1 5/16 |
| J9M-20-20 | 1 5/8 | 1 5/8 |
| J9M-24-24 | 1 7/8 | 1 7/8 |
| J9M-32-32 | 2 1/2 | 2 1/2 |

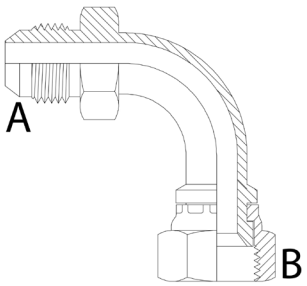
## J9MFS — JIC Male X JIC Female Swivel 90°




| Part # | JIC M | JIC F/S |
|---|---|---|
| J9MFS-03-03 | 3/8 | 3/8 |
| J9MFS-04-04 | 7/16 | 7/16 |
| J9MFS-04-04SS* | 7/16 | 7/16 |
| J9MFS-04-06 | 7/16 | 9/16 |
| J9MFS-05-05 | 1/2 | 1/2 |
| J9MFS-06-04 | 9/16 | 7/16 |
| J9MFS-06-06 | 9/16 | 9/16 |
| J9MFS-06-06SS* | 9/16 | 9/16 |
| J9MFS-06-08 | 9/16 | 3/4 |
| J9MFS-08-06 | 3/4 | 9/16 |
| J9MFS-08-08 | 3/4 | 3/4 |
| J9MFS-08-08SS* | 3/4 | 3/4 |
| J9MFS-08-10 | 3/4 | 7/8 |
| J9MFS-08-12 | 3/4 | 1 1/16 |
| J9MFS-10-08 | 7/8 | 3/4 |
| J9MFS-10-10 | 7/8 | 7/8 |
| J9MFS-10-10SS* | 7/8 | 7/8 |
| J9MFS-10-12 | 7/8 | 1 1/16 |
| J9MFS-12-08 | 1 1/16 | 3/4 |
| J9MFS-12-10 | 1 1/16 | 7/8 |
| J9MFS-12-12 | 1 1/16 | 1 1/16 |
| J9MFS-12-12SS* | 1 1/16 | 1 1/16 |
| J9MFS-12-16 | 1 1/16 | 1 5/16 |
| J9MFS-16-16 | 1 5/16 | 1 5/16 |
| J9MFS-16-20 | 1 5/16 | 1 5/8 |
| J9MFS-20-20 | 1 5/8 | 1 5/8 |
| J9MFS-24-24 | 1 7/8 | 1 7/8 |
| J9MFS-32-32 | 2 1/2 | 2 1/2 |

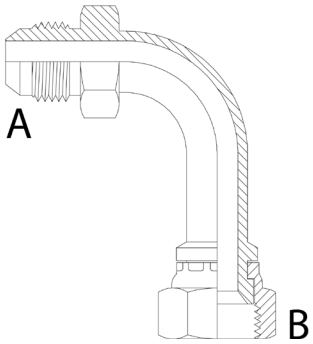
* SS = Stainless Steel

## J9SMFS — JIC Male X JIC Female Swivel 90° Swept Short Drop



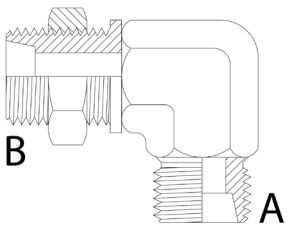

| Part # | JIC M | JIC F/S |
|---|---|---|
| J9SMFS-04-04 | 7/16 | 7/16 |
| J9SMFS-06-06 | 9/16 | 9/16 |
| J9SMFS-08-08 | 3/4 | 3/4 |
| J9SMFS-10-10 | 7/8 | 7/8 |
| J9SMFS-12-12 | 1 1/16 | 1 1/16 |
| J9SMFS-16-16 | 1 5/16 | 1 5/16 |
| J9SMFS-20-20 | 1 5/8 | 1 5/8 |
| J9SMFS-24-24 | 1 7/8 | 1 7/8 |
| J9SMFS-32-32 | 2 1/2 | 2 1/2 |

## J9SLMFS — JIC Male X JIC Female Swivel 90° Swept Long Drop




| Part # | JIC M | JIC F/S |
|---|---|---|
| J9SLMFS-04-04 | 7/16 | 7/16 |
| J9SLMFS-06-06 | 9/16 | 9/16 |
| J9SLMFS-08-08 | 3/4 | 3/4 |
| J9SLMFS-10-10 | 7/8 | 7/8 |
| J9SLMFS-12-12 | 1 1/16 | 1 1/16 |
| J9SLMFS-16-16 | 1 5/16 | 1 5/16 |
| J9SLMFS-20-20 | 1 5/8 | 1 5/8 |
| J9SLMFS-24-24 | 1 7/8 | 1 7/8 |

## MH90M — Metric Heavy (S) Male X Metric Heavy (S) Male Bulkhead 90°

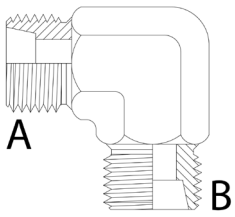



| Part # | Metric Heavy M | Metric Heavy BH |
|---|---|---|
| MH90M-14M-14M | M14X1.5 | M14X1.5 |
| MH90M-16M-16M | M16X1.5 | M16X1.5 |
| MH90M-18M-18M | M18X1.5 | M18X1.5 |
| MH90M-20M-20M | M20X1.5 | M20X1.5 |
| MH90M-22M-22M | M22X1.5 | M22X1.5 |
| MH90M-24M-24M | M24X1.5 | M24X1.5 |
| MH90M-30M-30M | M30X2 | M30X2 |
| MH90M-36M-36M | M36X2 | M36X2 |
| MH90M-42M-42M | M42X2 | M42X2 |
| MH90M-52M-52M | M52X2 | M52X2 |

# Adaptors

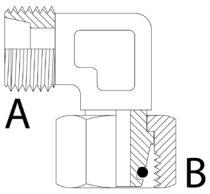


## MH9M — Metric Heavy (S) Male X Metric Heavy (S) Male 90°



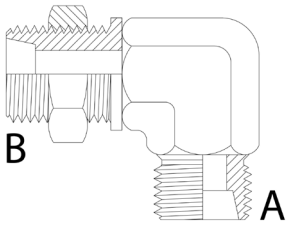

| Part # | Metric Heavy M | Metric Heavy M |
|---|---|---|
| MH9M-14M-14M | M14X1.5 | M14X1.5 |
| MH9M-16M-16M | M16X1.5 | M16X1.5 |
| MH9M-18M-18M | M18X1.5 | M18X1.5 |
| MH9M-20M-20M | M20X1.5 | M20X1.5 |
| MH9M-22M-22M | M22X1.5 | M22X1.5 |
| MH9M-24M-24M | M24X1.5 | M24X1.5 |
| MH9M-30M-30M | M30X2 | M30X2 |
| MH9M-36M-36M | M36X2 | M36X2 |
| MH9M-42M-42M | M42X2 | M42X2 |
| MH9M-52M-52M | M52X2 | M52X2 |

## MH9MFS — Metric Heavy(S) Male X Metric Heavy(S) Female Swivel 90°




| Part # | Metric Heavy M | Metric Heavy F/S |
|---|---|---|
| MH9MFS-14M-14M | M14X1.5 | M14X1.5 |
| MH9MFS-16M-16M | M16X1.5 | M16X1.5 |
| MH9MFS-18M-18M | M18X1.5 | M18X1.5 |
| MH9MFS-20M-20M | M20X1.5 | M20X1.5 |
| MH9MFS-22M-22M | M22X1.5 | M22X1.5 |
| MH9MFS-24M-24M | M24X1.5 | M24X1.5 |
| MH9MFS-30M-30M | M30X2 | M30X2 |
| MH9MFS-36M-36M | M36X2 | M36X2 |
| MH9MFS-42M-42M | M42X2 | M42X2 |
| MH9MFS-52M-52M | M52X2 | M52X2 |

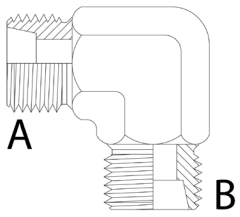
## ML90M — Metric Light(L) Male X Metric Light(L) Male Bulkhead 90°




| Part # | Metric Light M | Metric Light BH |
|---|---|---|
| ML90M-12M-12M | M12X1.5 | M12X1.5 |
| ML90M-14M-14M | M14X1.5 | M14X1.5 |
| ML90M-16M-16M | M16X1.5 | M16X1.5 |
| ML90M-18M-18M | M18X1.5 | M18X1.5 |
| ML90M-22M-22M | M22X1.5 | M22X1.5 |
| ML90M-26M-26M | M26X1.5 | M26X1.5 |
| ML90M-30M-30M | M30X2 | M30X2 |
| ML90M-36M-36M | M36X2 | M36X2 |
| ML90M-45M-45M | M45X2 | M45X2 |
| ML90M-52M-52M | M52X2 | M52X2 |

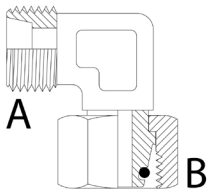

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## ML9M — Metric Light (L) Male X Metric Light (L) Male 90°



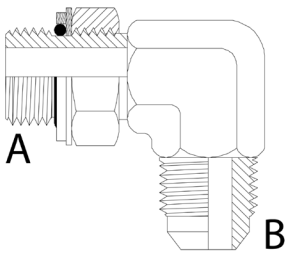

| Part # | Metric Light M | Metric Light M |
|---|---|---|
| ML9M-12M-12M | M12X1.5 | M12X1.5 |
| ML9M-14M-14M | M14X1.5 | M14X1.5 |
| ML9M-16M-16M | M16X1.5 | M16X1.5 |
| ML9M-18M-18M | M18X1.5 | M18X1.5 |
| ML9M-22M-22M | M22X1.5 | M22X1.5 |
| ML9M-26M-26M | M26X1.5 | M26X1.5 |
| ML9M-30M-30M | M30X2 | M30X2 |
| ML9M-36M-36M | M36X2 | M36X2 |
| ML9M-45M-45M | M45X2 | M45X2 |
| ML9M-52M-52M | M52X2 | M52X2 |

## ML9MFS — Metric Light (L) Male X Metric Light (L) Female Swivel 90°




| Part # | Metric Light M | Metric Light F/S |
|---|---|---|
| ML9MFS-12M-12M | M12X1.5 | M12X1.5 |
| ML9MFS-14M-14M | M14X1.5 | M14X1.5 |
| ML9MFS-16M-16M | M16X1.5 | M16X1.5 |
| ML9MFS-18M-18M | M18X1.5 | M18X1.5 |
| ML9MFS-22M-22M | M22X1.5 | M22X1.5 |
| ML9MFS-26M-26M | M26X1.5 | M26X1.5 |
| ML9MFS-30M-30M | M30X2 | M30X2 |
| ML9MFS-36M-36M | M36X2 | M36X2 |
| ML9MFS-45M-45M | M45X2 | M45X2 |
| ML9MFS-52M-52M | M52X2 | M52X2 |

## MSJ9M — Metric Stud X JIC Male 90°

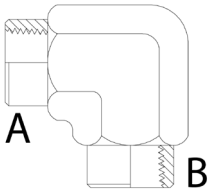



| Part # | Metric Stud M | JIC M |
|---|---|---|
| MSJ9M-12M-04 | M12X1.5 | 7/16 |
| MSJ9M-12M-08 | M12X1.5 | 3/4 |
| MSJ9M-14M-06 | M14X1.5 | 9/16 |
| MSJ9M-16M-06 | M16X1.5 | 9/16 |
| MSJ9M-18M-06 | M18X1.5 | 9/16 |
| MSJ9M-18M-08 | M18X1.5 | 3/4 |
| MSJ9M-22M-10 | M22X1.5 | 7/8 |
| MSJ9M-27M-12 | M27X2 | 1 1/16 |

# Adaptors

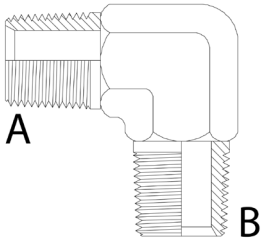


## N9F — NPT Female X NPT Female 90°




| Part # | NPT F | NPT F |
|---|---|---|
| N9F-02-02 | 1/8 | 1/8 |
| N9F-04-04 | 1/4 | 1/4 |
| N9F-06-06 | 3/8 | 3/8 |
| N9F-08-08 | 1/2 | 1/2 |
| N9F-12-12 | 3/4 | 3/4 |
| N9F-16-16 | 1 | 1 |
| N9F-20-20 | 1 1/4 | 1 1/4 |
| N9F-24-24 | 1 1/2 | 1 1/2 |
| N9F-32-32 | 2 | 2 |

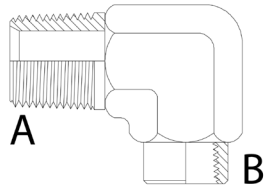
## N9M — NPT Male X NPT Male 90°




| Part # | NPT M | NPT M |
|---|---|---|
| N9M-02-02 | 1/8 | 1/8 |
| N9M-02-04 | 1/8 | 1/4 |
| N9M-02-06 | 1/8 | 3/8 |
| N9M-04-04 | 1/4 | 1/4 |
| N9M-04-06 | 1/4 | 3/8 |
| N9M-04-08 | 1/4 | 1/2 |
| N9M-06-06 | 3/8 | 3/8 |
| N9M-06-08 | 3/8 | 1/2 |
| N9M-06-12 | 3/8 | 3/4 |
| N9M-08-08 | 1/2 | 1/2 |
| N9M-08-12 | 1/2 | 3/4 |
| N9M-08-16 | 1/2 | 1 |
| N9M-12-12 | 3/4 | 3/4 |
| N9M-12-16 | 3/4 | 1 |
| N9M-16-16 | 1 | 1 |
| N9M-20-20 | 1 1/4 | 1 1/4 |
| N9M-24-24 | 1 1/2 | 1 1/2 |
| N9M-32-32 | 2 | 2 |

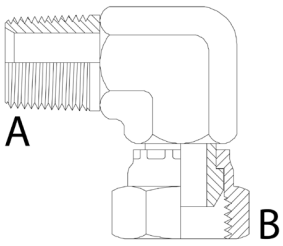

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## N9MF — NPT Male X NPT Female 90°



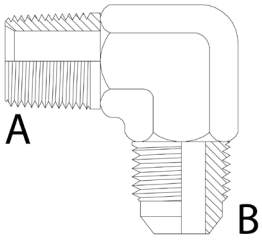

| Part # | NPT M | NPT F |
|---|---|---|
| N9MF-02-02 | 1/8 | 1/8 |
| N9MF-04-04 | 1/4 | 1/4 |
| N9MF-06-06 | 3/8 | 3/8 |
| N9MF-08-08 | 1/2 | 1/2 |
| N9MF-08-12 | 1/2 | 3/4 |
| N9MF-12-08 | 3/4 | 1/2 |
| N9MF-12-12 | 3/4 | 3/4 |
| N9MF-16-16 | 1 | 1 |
| N9MF-20-20 | 1 1/4 | 1 1/4 |
| N9MF-24-24 | 1 1/2 | 1 1/2 |
| N9MF-32-32 | 2 | 2 |

## N9MFS — NPT Male X NPSM Female Swivel 90°




| Part # | NPT M | NPSM F/S |
|---|---|---|
| N9MFS-02-02 | 1/8 | 1/8 |
| N9MFS-04-04 | 1/4 | 1/4 |
| N9MFS-06-06 | 3/8 | 3/8 |
| N9MFS-08-08 | 1/2 | 1/2 |
| N9MFS-12-12 | 3/4 | 3/4 |
| N9MFS-16-16 | 1 | 1 |
| N9MFS-20-20 | 1 1/4 | 1 1/4 |
| N9MFS-24-24 | 1 1/2 | 1 1/2 |
| N9MFS-32-32 | 2 | 2 |

## NJ9M — NPT Male X JIC Male 90°



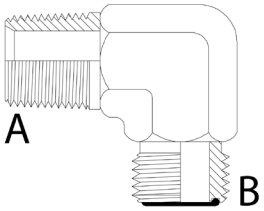

| Part # | NPT M | JIC M |
|---|---|---|
| NJ9L30M-02-04** | 1/8 | 7/16 |
| NJ9L40M-02-04** | 1/8 | 7/16 |
| NJ9L58M-02-04** | 1/8 | 7/16 |
| NJ9M-02-04 | 1/8 | 7/16 |
| NJ9M-02-06 | 1/8 | 9/16 |
| NJ9L40M-04-04** | 1/4 | 7/16 |
| NJ9M-04-04 | 1/4 | 7/16 |
| NJ9M-04-05 | 1/4 | 1/2 |
| NJ9M-04-06 | 1/4 | 9/16 |
| NJ9M-04-08 | 1/4 | 3/4 |
| NJ9M-06-04 | 3/8 | 7/16 |
| NJ9M-06-06 | 3/8 | 9/16 |
| NJ9M-06-08 | 3/8 | 3/4 |
| NJ9M-08-04 | 1/2 | 7/16 |
| NJ9M-08-06 | 1/2 | 9/16 |
| NJ9M-08-08 | 1/2 | 3/4 |
| NJ9M-08-10 | 1/2 | 7/8 |
| NJ9M-08-12 | 1/2 | 1 1/16 |
| NJ9M-12-06 | 3/4 | 9/16 |
| NJ9M-12-08 | 3/4 | 3/4 |
| NJ9M-12-10 | 3/4 | 7/8 |
| NJ9M-12-12 | 3/4 | 1 1/16 |
| NJ9M-12-16 | 3/4 | 1 5/16 |
| NJ9M-16-12 | 1 | 1 1/16 |
| NJ9M-16-16 | 1 | 1 5/16 |
| NJ9M-16-20 | 1 | 1 5/8 |
| NJ9M-20-12 | 1 1/4 | 1 1/16 |
| NJ9M-20-16 | 1 1/4 | 1 5/16 |
| NJ9M-20-20 | 1 1/4 | 1 5/8 |
| NJ9M-24-20 | 1 1/2 | 1 5/8 |
| NJ9M-24-24 | 1 1/2 | 1 7/8 |
| NJ9M-24-32 | 1 1/2 | 2 1/2 |
| NJ9M-32-24 | 2 | 1 7/8 |
| NJ9M-32-32 | 2 | 2 1/2 |

**Long Drop L= Length eg; BJ1L46M-02-04 is 46mm long



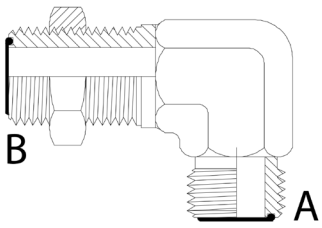
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## NORS9M — NPT Male X ORFS Male 90°



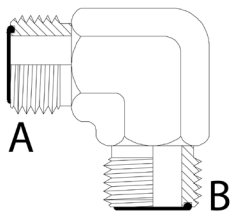

| Part # | NPT M | ORFS M |
|---|---|---|
| NORS9M-02-04 | 1/8 | 9/16 |
| NORS9M-04-04 | 1/4 | 9/16 |
| NORS9M-04-06 | 1/4 | 11/16 |
| NORS9M-06-06 | 3/8 | 11/16 |
| NORS9M-06-08 | 3/8 | 13/16 |
| NORS9M-08-08 | 1/2 | 13/16 |
| NORS9M-08-10 | 1/2 | 1 |
| NORS9M-12-12 | 3/4 | 1 3/16 |
| NORS9M-16-16 | 1 | 1 7/16 |

## ORS90M — ORFS Male X ORFS Male Bulkhead 90°




| Part # | ORFS M | ORFS BH |
|---|---|---|
| ORS90M-04-04 | 9/16 | 9/16 |
| ORS90M-06-06 | 11/16 | 11/16 |
| ORS90M-08-08 | 13/16 | 13/16 |
| ORS90M-10-10 | 1 | 1 |
| ORS90M-12-12 | 1 3/16 | 1 3/16 |
| ORS90M-16-16 | 1 7/16 | 1 7/16 |

## ORS9M — ORFS Male X ORFS Male 90°

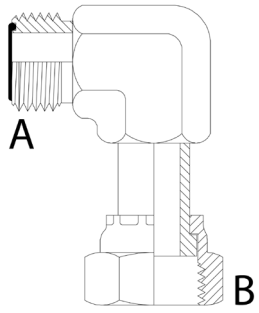



| Part # | ORFS M | ORFS M |
|---|---|---|
| ORS9M-04-04 | 9/16 | 9/16 |
| ORS9M-06-06 | 11/16 | 11/16 |
| ORS9M-08-08 | 13/16 | 13/16 |
| ORS9M-10-10 | 1 | 1 |
| ORS9M-12-12 | 1 3/16 | 1 3/16 |
| ORS9M-16-16 | 1 7/16 | 1 7/16 |
| ORS9M-20-20 | 1 11/16 | 1 11/16 |

# Adaptors

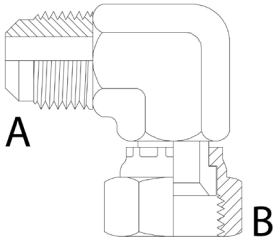


## ORS9MFS — ORFS Male X ORFS Female Swivel 90°



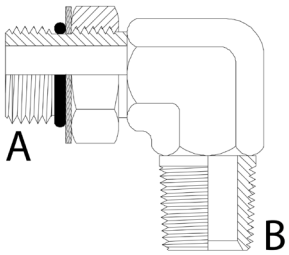

| Part # | ORFS M | ORFS F/S |
|---|---|---|
| ORS9MFS-04-04 | 9/16 | 9/16 |
| ORS9MFS-06-06 | 11/16 | 11/16 |
| ORS9MFS-08-08 | 13/16 | 13/16 |
| ORS9MFS-10-10 | 1 | 1 |
| ORS9MFS-12-12 | 1 3/16 | 1 3/16 |
| ORS9MFS-16-16 | 1 7/16 | 1 7/16 |
| ORS9MFS-20-20 | 1 11/16 | 1 11/16 |
| ORS9MFS-24-24 | 2 | 2 |

## S9MFS — SAE Male X SAE Female Swivel 90°




| Part # | SAE M | SAE F/S |
|---|---|---|
| S9MFS-06-06 | 5/8 | 5/8 |
| S9MFS-12-12 | 1 1/16 | 1 1/16 |

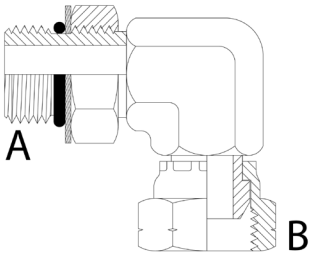
## UB9M — UNO Male X BSPT Male 90°




| Part # | UNO M | BSPT M |
|---|---|---|
| UB9M-04-04 | 7/16 | 1/4 |
| UB9M-06-04 | 9/16 | 1/4 |
| UB9M-06-06 | 9/16 | 3/8 |
| UB9M-08-04 | 3/4 | 1/4 |
| UB9M-08-06 | 3/4 | 3/8 |
| UB9M-08-08 | 3/4 | 1/2 |
| UB9M-10-06 | 7/8 | 3/8 |
| UB9M-10-08 | 7/8 | 1/2 |
| UB9M-10-12 | 7/8 | 3/4 |
| UB9M-12-08 | 1 1/16 | 1/2 |
| UB9M-12-10 | 1 1/16 | 5/8 |
| UB9M-12-12 | 1 1/16 | 3/4 |
| UB9M-12-16 | 1 1/16 | 1 |
| UB9M-16-12 | 1 5/16 | 3/4 |
| UB9M-16-16 | 1 5/16 | 1 |


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## UB9MFS — UNO Male X BSPP Female Swivel 90°

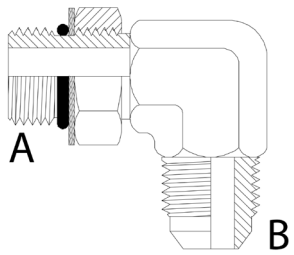



| Part # | UNO M | BSPP F/S |
|---|---|---|
| UB9MFS-04-04 | 7/16 | 1/4 |
| UB9MFS-06-04 | 9/16 | 1/4 |
| UB9MFS-06-06 | 9/16 | 3/8 |
| UB9MFS-08-06 | 3/4 | 3/8 |
| UB9MFS-08-08 | 3/4 | 1/2 |
| UB9MFS-10-08 | 7/8 | 1/2 |
| UB9MFS-12-12 | 1 1/16 | 3/4 |
| UB9MFS-16-16 | 1 5/16 | 1 |

# Adaptors



## UJ9M — UNO Male X JIC Male 90°



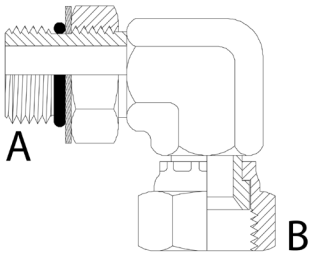

| Part # | UNO M | JIC M |
|---|---|---|
| UJ9M-04-04 | 7/16 | 7/16 |
| UJ9M-04-06 | 7/16 | 9/16 |
| UJ9M-04-08 | 7/16 | 3/4 |
| UJ9M-05-05 | 1/2 | 1/2 |
| UJ9M-05-06 | 1/2 | 9/16 |
| UJ9M-06-04 | 9/16 | 7/16 |
| UJ9M-06-05 | 9/16 | 1/2 |
| UJ9M-06-06 | 9/16 | 9/16 |
| UJ9M-06-08 | 9/16 | 3/4 |
| UJ9M-06-10 | 9/16 | 7/8 |
| UJ9M-06-12 | 9/16 | 1 1/16 |
| UJ9M-08-04 | 3/4 | 7/16 |
| UJ9M-08-06 | 3/4 | 9/16 |
| UJ9L48M-08-06** | 3/4 | 9/16 |
| UJ9L60M-08-06** | 3/4 | 9/16 |
| UJ9M-08-08 | 3/4 | 3/4 |
| UJ9L63M-08-08** | 3/4 | 3/4 |
| UJ9M-08-10 | 3/4 | 7/8 |
| UJ9M-08-12 | 3/4 | 1 1/16 |
| UJ9M-08-16 | 3/4 | 1 5/16 |
| UJ9M-10-06 | 7/8 | 9/16 |
| UJ9M-10-08 | 7/8 | 3/4 |
| UJ9M-10-10 | 7/8 | 7/8 |
| UJ9M-10-12 | 7/8 | 1 1/16 |
| UJ9M-12-06 | 1 1/16 | 9/16 |
| UJ9M-12-08 | 1 1/16 | 3/4 |
| UJ9M-12-10 | 1 1/16 | 7/8 |
| UJ9M-12-12 | 1 1/16 | 1 1/16 |
| UJ9M-12-16 | 1 1/16 | 1 5/16 |
| UJ9M-16-08 | 1 5/16 | 3/4 |
| UJ9M-16-10 | 1 5/16 | 7/8 |
| UJ9M-16-12 | 1 5/16 | 1 1/16 |
| UJ9M-16-16 | 1 5/16 | 1 5/16 |
| UJ9l77M-16-16** | 1 5/16 | 1 5/16 |
| UJ9M-20-16 | 1 5/8 | 1 5/16 |
| UJ9M-20-20 | 1 5/8 | 1 5/8 |
| UJ9M-20-24 | 1 5/8 | 1 7/8 |
| UJ9M-24-24 | 1 7/8 | 1 7/8 |
| UJ9M-32-32 | 2 1/2 | 2 1/2 |

** L = Long drop. eg L40 = 40mm drop.



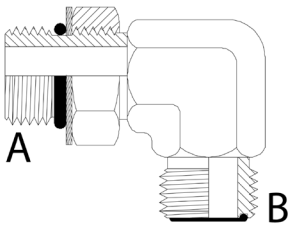
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## UJ9MFS — UNO Male X JIC Female Swivel 90°




| Part # | UNO M | JIC F/S |
|---|---|---|
| UJ9MFS-04-04 | 7/16 | 7/16 |
| UJ9MFS-06-06 | 9/16 | 9/16 |
| UJ9MFS-08-08 | 3/4 | 3/4 |
| UJ9MFS-10-10 | 7/8 | 7/8 |
| UJ9MFS-12-12 | 1 1/16 | 1 1/16 |
| UJ9MFS-16-16 | 1 5/16 | 1 5/16 |

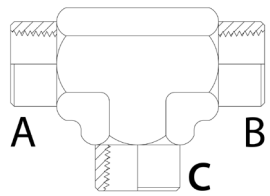
## UORS9M — UNO Male X ORFS Male 90°




| Part # | UNO M | ORFS M |
|---|---|---|
| UORS9M-04-04 | 7/16 | 9/16 |
| UORS9M-04-06 | 7/16 | 11/16 |
| UORS9M-06-04 | 9/16 | 9/16 |
| UORS9M-06-06 | 9/16 | 11/16 |
| UORS9M-06-08 | 9/16 | 13/16 |
| UORS9M-08-06 | 3/4 | 11/16 |
| UORS9M-08-08 | 3/4 | 13/16 |
| UORS9M-08-10 | 3/4 | 1 |
| UORS9M-08-12 | 3/4 | 1 3/16 |
| UORS9M-10-06 | 7/8 | 11/16 |
| UORS9M-10-08 | 7/8 | 13/16 |
| UORS9M-10-10 | 7/8 | 1 |
| UORS9M-10-12 | 7/8 | 1 3/16 |
| UORS9M-12-08 | 1 1/16 | 13/16 |
| UORS9M-12-10 | 1 1/16 | 1 |
| UORS9M-12-12 | 1 1/16 | 1 3/16 |
| UORS9M-12-16 | 1 1/16 | 1 7/16 |
| UORS9M-16-12 | 1 5/16 | 1 3/16 |
| UORS9M-16-16 | 1 5/16 | 1 7/16 |
| UORS9M-16-20 | 1 5/16 | 1 11/16 |
| UORS9M-20-16 | 1 5/8 | 1 7/16 |
| UORS9M-20-20 | 1 5/8 | 1 11/16 |
| UORS9M-20-24 | 1 5/8 | 2 |
| UORS9M-24-24 | 1 7/8 | 2 |

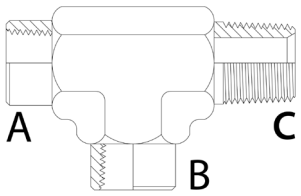
## Tee Adaptors

### B3F — BSPT Female Tee



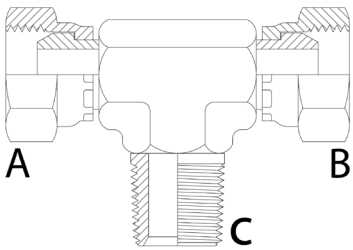

| Part # | BSPT F | BSPT F | BSPT F |
|---|---|---|---|
| B3F-02-02-02 | 1/8 | 1/8 | 1/8 |
| B3F-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3F-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3F-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3F-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3F-16-16-16 | 1 | 1 | 1 |
| B3F-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |
| B3F-24-24-24 | 1 1/2 | 1 1/2 | 1 1/2 |
| B3F-32-32-32 | 2 | 2 | 2 |

### B3FMR — BSPT Female X BSPT Female X BSPT Male (Run)Tee




| Part # | BSPT F | BSPT F | BSPT M |
|---|---|---|---|
| B3FMR-02-02-02 | 1/8 | 1/8 | 1/8 |
| B3FMR-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3FMR-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3FMR-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3FMR-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3FMR-16-16-16 | 1 | 1 | 1 |
| B3FMR-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |

### B3FSML — BSPP Female Swivel X BSPP Female Swivel X BSPT Male (Leg) Tee

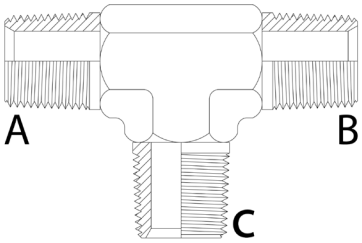



| Part # | BSPP F/S | BSPP F/S | BSPT M |
|---|---|---|---|
| B3FSML-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3FSML-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3FSML-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3FSML-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3FSML-16-16-16 | 1 | 1 | 1 |



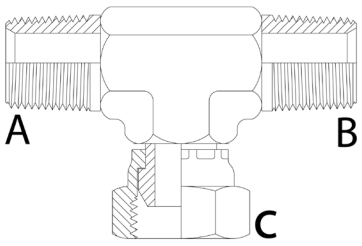
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## B3M — BSPT Male Tee



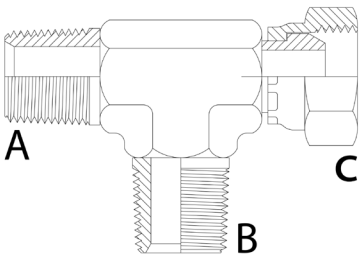

| Part # | BSPT M | BSPT M | BSPT M |
|---|---|---|---|
| B3M-02-02-02 | 1/8 | 1/8 | 1/8 |
| B3M-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3M-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3M-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3M-08-08-12 | 1/2 | 1/2 | 3/4 |
| B3M-12-12-08 | 3/4 | 3/4 | 1/2 |
| B3M-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3M-16-16-16 | 1 | 1 | 1 |
| B3M-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |
| B3M-24-24-24 | 1 1/2 | 1 1/2 | 1 1/2 |
| B3M-32-32-32 | 2 | 2 | 2 |

## B3MFSL — BSPT Male X BSPT Male X BSPP Female Swivel (Leg) Tee




| Part # | BSPT M | BSPT M | BSPP F/S |
|---|---|---|---|
| B3MFSL-02-02-02 | 1/8 | 1/8 | 1/8 |
| B3MFSL-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3MFSL-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3MFSL-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3MFSL-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3MFSL-16-16-16 | 1 | 1 | 1 |

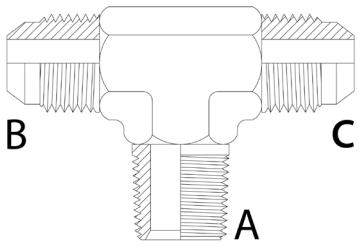
## B3MFSR — BSPT Male X BSPT Male X BSPP Female Swivel (Run) Tee




| Part # | BSPT M | BSPT M | BSPP F/S |
|---|---|---|---|
| B3MFSR-02-02-02 | 1/8 | 1/8 | 1/8 |
| B3MFSR-04-04-04 | 1/4 | 1/4 | 1/4 |
| B3MFSR-04-04-04SS* | 1/4 | 1/4 | 1/4 |
| B3MFSR-06-06-06 | 3/8 | 3/8 | 3/8 |
| B3MFSR-08-08-08 | 1/2 | 1/2 | 1/2 |
| B3MFSR-12-12-12 | 3/4 | 3/4 | 3/4 |
| B3MFSR-12-12-12SS* | 3/4 | 3/4 | 3/4 |
| B3MFSR-16-16-16 | 1 | 1 | 1 |
| B3MFSR-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |
| B3MFSR-24-24-24 | 1 1/2 | 1 1/2 | 1 1/2 |

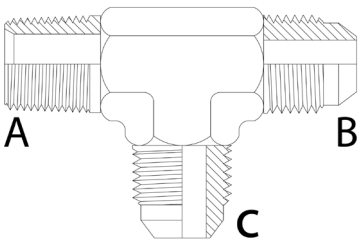
* SS = Stainless Steel

## BJ3ML — BSPT Male (Leg) X JIC Male X JIC Male Tee



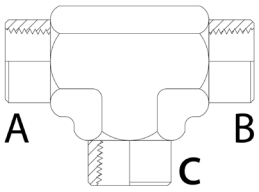

| Part # | BSPT M | JIC M | JIC M |
|---|---|---|---|
| BJ3ML-02-04-04 | 1/8 | 7/16 | 7/16 |
| BJ3ML-04-04-04 | 1/4 | 7/16 | 7/16 |
| BJ3ML-04-06-06 | 1/4 | 9/16 | 9/16 |
| BJ3ML-04-08-08 | 1/4 | 3/4 | 3/4 |
| BJ3ML-06-06-06 | 3/8 | 9/16 | 9/16 |
| BJ3ML-06-08-08 | 3/8 | 3/4 | 3/4 |
| BJ3ML-06-10-10 | 3/8 | 7/8 | 7/8 |
| BJ3ML-08-08-08 | 1/2 | 3/4 | 3/4 |
| BJ3ML-08-10-10 | 1/2 | 7/8 | 7/8 |
| BJ3ML-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| BJ3ML-16-16-16 | 1 | 1 5/16 | 1 5/16 |

## BJ3MR — BSPT Male (Run) X JIC Male X JIC Male Tee



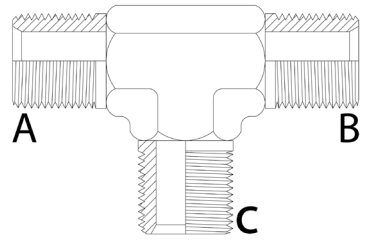

| Part # | BSPT M | JIC M | JIC M |
|---|---|---|---|
| BJ3MR-02-04-04 | 1/8 | 7/16 | 7/16 |
| BJ3MR-04-04-04 | 1/4 | 7/16 | 7/16 |
| BJ3MR-04-06-06 | 1/4 | 9/16 | 9/16 |
| BJ3MR-06-06-06 | 3/8 | 9/16 | 9/16 |
| BJ3MR-06-08-08 | 3/8 | 3/4 | 3/4 |
| BJ3MR-08-08-08 | 1/2 | 3/4 | 3/4 |
| BJ3MR-08-10-10 | 1/2 | 7/8 | 7/8 |
| BJ3MR-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| BJ3MR-16-16-16 | 1 | 1 5/16 | 1 5/16 |

## BP3F — BSPP Female Tee



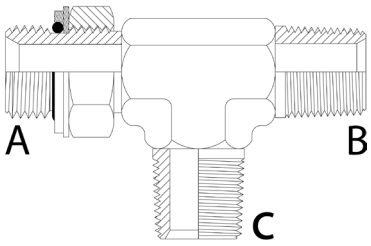

| Part # | BSPP F | BSPP F | BSPP F |
|---|---|---|---|
| BP3F-04-04-04 | 1/4 | 1/4 | 1/4 |
| BP3F-06-06-06 | 3/8 | 3/8 | 3/8 |
| BP3F-08-08-08 | 1/2 | 1/2 | 1/2 |
| BP3F-12-12-12 | 3/4 | 3/4 | 3/4 |
| BP3F-16-16-16 | 1 | 1 | 1 |

## BP3M — BSPP Male Tee



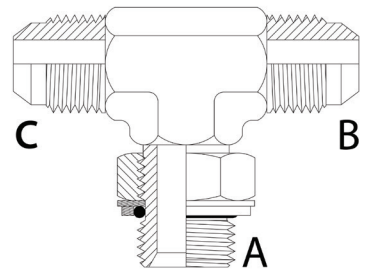

| Part # | BSPP M | BSPP M | BSPP M |
|---|---|---|---|
| BP3M-06-06-06 | 3/8 | 3/8 | 3/8 |
| BP3M-08-08-08 | 1/2 | 1/2 | 1/2 |

## BPB3MR — BSPP Male (Run) X BSPT Male X BSPT Male Tee



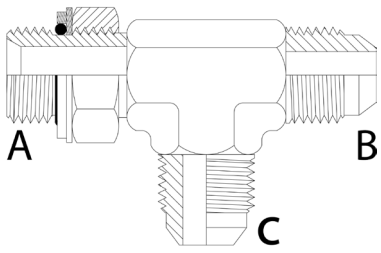

| Part # | BSPP M | BSPT M | BSPT M |
|---|---|---|---|
| BPB3MR-04-04-04 | 1/4 | 1/4 | 1/4 |
| BPB3MR-06-06-06 | 3/8 | 3/8 | 3/8 |
| BPB3MR-08-08-08 | 1/2 | 1/2 | 1/2 |
| BPB3MR-12-12-12 | 3/4 | 3/4 | 3/4 |
| BPB3MR-16-16-16 | 1 | 1 | 1 |

## BPJ3ML — BSPP Male (Leg) X JIC Male X JIC Male Tee



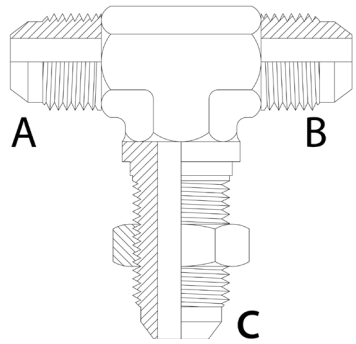

| Part # | BSPP M | JIC M | JIC M |
|---|---|---|---|
| BPJ3ML-02-04-04 | 1/8 | 7/16 | 7/16 |
| BPJ3ML-04-04-04 | 1/4 | 7/16 | 7/16 |
| BPJ3ML-04-06-06 | 1/4 | 9/16 | 9/16 |
| BPJ3ML-06-06-06 | 3/8 | 9/16 | 9/16 |
| BPJ3ML-06-08-08 | 3/8 | 3/4 | 3/4 |
| BPJ3ML-08-06-06 | 1/2 | 9/16 | 9/16 |
| BPJ3ML-08-08-08 | 1/2 | 3/4 | 3/4 |
| BPJ3ML-08-10-10 | 1/2 | 7/8 | 7/8 |
| BPJ3ML-12-10-10 | 3/4 | 7/8 | 7/8 |
| BPJ3ML-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| BPJ3ML-16-16-16 | 1 | 1 5/16 | 1 5/16 |
| BPJ3ML-20-20-20 | 1 1/4 | 1 5/8 | 1 5/8 |
| BPJ3ML-24-24-24 | 1 1/2 | 1 7/8 | 1 7/8 |

## BPJ3MR — BSPP Male (Run) X JIC Male X JIC Male Tee



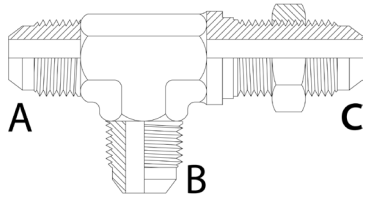

| Part # | BSPP M | JIC M | JIC M |
|---|---|---|---|
| BPJ3MR-02-04-04 | 1/8 | 7/16 | 7/16 |
| BPJ3MR-04-04-04 | 1/4 | 7/16 | 7/16 |
| BPJ3MR-04-06-06 | 1/4 | 9/16 | 9/16 |
| BPJ3MR-06-06-06 | 3/8 | 9/16 | 9/16 |
| BPJ3MR-06-08-08 | 3/8 | 3/4 | 3/4 |
| BPJ3MR-08-06-06 | 1/2 | 9/16 | 9/16 |
| BPJ3MR-08-08-08 | 1/2 | 3/4 | 3/4 |
| BPJ3MR-08-10-10 | 1/2 | 7/8 | 7/8 |
| BPJ3MR-08-12-12 | 1/2 | 1 1/16 | 1 1/16 |
| BPJ3MR-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| BPJ3MR-16-16-16 | 1 | 1 5/16 | 1 5/16 |
| BPJ3MR-20-20-20 | 1 1/4 | 1 5/8 | 1 5/8 |

## J30ML — JIC Male X JIC Male X JIC Male Bulkhead (Leg) Tee



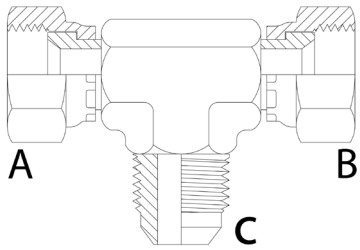

| Part # | JIC M | JIC M | JIC BH |
|---|---|---|---|
| J30ML-04-04-04 | 7/16 | 7/16 | 7/16 |
| J30ML-06-06-06 | 9/16 | 9/16 | 9/16 |
| J30ML-08-08-08 | 3/4 | 3/4 | 3/4 |
| J30ML-10-10-10 | 7/8 | 7/8 | 7/8 |
| J30ML-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J30ML-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |

## J30MR — JIC Male X JIC Male X JIC Male Bulkhead (Run)Tee



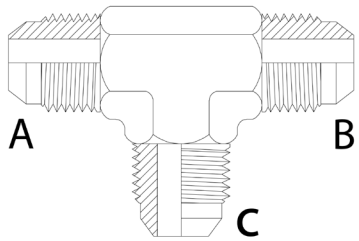

| Part # | JIC M | JIC M | JIC BH |
|---|---|---|---|
| J30MR-04-04-04 | 7/16 | 7/16 | 7/16 |
| J30MR-06-06-06 | 9/16 | 9/16 | 9/16 |
| J30MR-08-08-08 | 3/4 | 3/4 | 3/4 |
| J30MR-10-10-10 | 7/8 | 7/8 | 7/8 |
| J30MR-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J30MR-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |

## J3FSML — JIC Female Swivel X JIC Female Swivel X JIC Male (Leg)



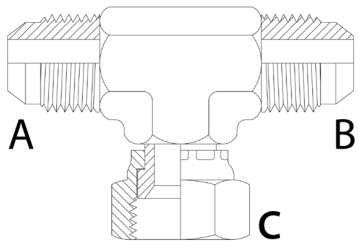

| Part # | JIC F/S | JIC F/S | JIC M |
|---|---|---|---|
| J3FSML-04-04-04 | 7/16 | 7/16 | 7/16 |
| J3FSML-06-06-06 | 9/16 | 9/16 | 9/16 |
| J3FSML-08-08-08 | 3/4 | 3/4 | 3/4 |
| J3FSML-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J3FSML-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |

## J3M — JIC Male Tee




| Part # | JIC M | JIC M | JIC M |
|---|---|---|---|
| J3M-04-04-04 | 7/16 | 7/16 | 7/16 |
| J3M-05-05-05 | 1/2 | 1/2 | 1/2 |
| J3M-06-06-06 | 9/16 | 9/16 | 9/16 |
| J3M-06-06-08 | 9/16 | 9/16 | 3/4 |
| J3M-08-08-06 | 3/4 | 3/4 | 9/16 |
| J3M-08-08-08 | 3/4 | 3/4 | 3/4 |
| J3M-08-08-10 | 3/4 | 3/4 | 7/8 |
| J3M-08-08-12 | 3/4 | 3/4 | 1 1/16 |
| J3M-10-10-08 | 7/8 | 7/8 | 3/4 |
| J3M-10-10-10 | 7/8 | 7/8 | 7/8 |
| J3M-10-10-12 | 7/8 | 7/8 | 1 1/16 |
| J3M-12-12-08 | 1 1/16 | 1 1/16 | 3/4 |
| J3M-12-12-10 | 1 1/16 | 1 1/16 | 7/8 |
| J3M-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J3M-12-12-16 | 1 1/16 | 1 1/16 | 1 5/16 |
| J3M-12-12-20 | 1 1/16 | 1 1/16 | 1 5/8 |
| J3M-12-16-12 | 1 1/16 | 1 5/16 | 1 1/16 |
| J3M-16-16-12 | 1 5/16 | 1 5/16 | 1 1/16 |
| J3M-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |
| J3M-20-20-20 | 1 5/8 | 1 5/8 | 1 5/8 |
| J3M-24-24-24 | 1 7/8 | 1 7/8 | 1 7/8 |
| J3M-32-32-32 | 2 1/2 | 2 1/2 | 2 1/2 |

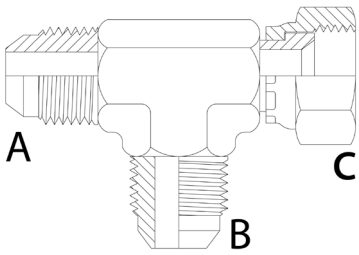
## J3MFSL — JIC Male X JIC Male X JIC Female Swivel (Leg) Tee




| Part # | JIC M | JIC M | JIC F/S |
|---|---|---|---|
| J3MFSL-04-04-04 | 7/16 | 7/16 | 7/16 |
| J3MFSL-05-05-05 | 1/2 | 1/2 | 1/2 |
| J3MFSL-06-06-06 | 9/16 | 9/16 | 9/16 |
| J3MFSL-06-06-06SS* | 9/16 | 9/16 | 9/16 |
| J3MFSL-08-08-08 | 3/4 | 3/4 | 3/4 |
| J3MFSL-08-08-08SS* | 3/4 | 3/4 | 3/4 |
| J3MFSL-10-10-10 | 7/8 | 7/8 | 7/8 |
| J3MFSL-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J3MFSL-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |
| J3MFSL-20-20-20 | 1 5/8 | 1 5/8 | 1 5/8 |
| J3MFSL-24-24-24 | 1 7/8 | 1 7/8 | 1 7/8 |
| J3MFSL-32-32-32 | 2 1/2 | 2 1/2 | 2 1/2 |

* SS = Stainless Steel

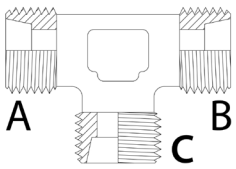
## J3MFSR — JIC Male X JIC Male X JIC Female Swivel (Run) Tee




| Part # | JIC M | JIC M | JIC F/S |
|---|---|---|---|
| J3MFSR-04-04-04 | 7/16 | 7/16 | 7/16 |
| J3MFSR-05-05-05 | 1/2 | 1/2 | 1/2 |
| J3MFSR-06-06-06 | 9/16 | 9/16 | 9/16 |
| J3MFSR-06-06-06SS* | 9/16 | 9/16 | 9/16 |
| J3MFSR-08-08-06 | 3/4 | 3/4 | 9/16 |
| J3MFSR-08-08-08 | 3/4 | 3/4 | 3/4 |
| J3MFSR-08-08-08SS* | 3/4 | 3/4 | 3/4 |
| J3MFSR-10-10-10 | 7/8 | 7/8 | 7/8 |
| J3MFSR-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| J3MFSR-12-12-12SS* | 1 1/16 | 1 1/16 | 1 1/16 |
| J3MFSR-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |
| J3MFSR-20-20-20 | 1 5/8 | 1 5/8 | 1 5/8 |
| J3MFSR-24-24-24 | 1 7/8 | 1 7/8 | 1 7/8 |
| J3MFSR-32-32-32 | 2 1/2 | 2 1/2 | 2 1/2 |

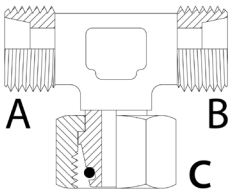
* SS = Stainless Steel

## MH3M — Metric Heavy (S) Male Tee



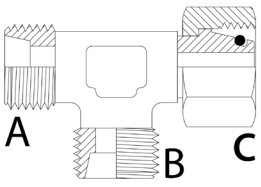

| Part # | Metric Heavy M | Metric Heavy M | Metric Heavy M |
|---|---|---|---|
| MH3M-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| MH3M-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| MH3M-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| MH3M-20M-20M-20M | M20X1.5 | M20X1.5 | M20X1.5 |
| MH3M-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| MH3M-24M-24M-24M | M24X1.5 | M24X1.5 | M24X1.5 |
| MH3M-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| MH3M-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| MH3M-42M-42M-42M | M42X2 | M42X2 | M42X2 |
| MH3M-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## MH3MFSL — Metric Heavy (S) Male X Metric Heavy (S) Male X Metric Heavy (S) F/S (Leg) Tee



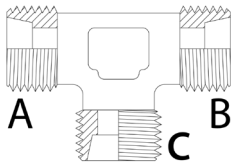

| Part # | Metric Heavy M | Metric Heavy M | Metric Heavy F/S |
|---|---|---|---|
| MH3MFSL-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| MH3MFSL-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| MH3MFSL-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| MH3MFSL-20M-20M-20M | M20X1.5 | M20X1.5 | M20X1.5 |
| MH3MFSL-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| MH3MFSL-24M-24M-24M | M24X1.5 | M24X1.5 | M24X1.5 |
| MH3MFSL-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| MH3MFSL-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| MH3MFSL-42M-42M-42M | M42X2 | M42X2 | M42X2 |
| MH3MFSL-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## MH3MFSR — Metric Heavy (S) Male X Metric Heavy (S) Male X Metric Heavy (S) F/S (Run) Tee



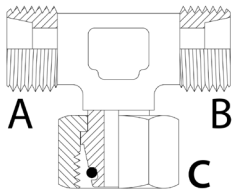

| Part # | Metric Heavy M | Metric Heavy M | Metric Heavy F/S |
|---|---|---|---|
| MH3MFSR-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| MH3MFSR-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| MH3MFSR-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| MH3MFSR-20M-20M-20M | M20X1.5 | M20X1.5 | M20X1.5 |
| MH3MFSR-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| MH3MFSR-24M-24M-24M | M24X1.5 | M24X1.5 | M24X1.5 |
| MH3MFSR-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| MH3MFSR-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| MH3MFSR-42M-42M-42M | M42X2 | M42X2 | M42X2 |
| MH3MFSR-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## ML3M — Metric Light (L) Male Tee



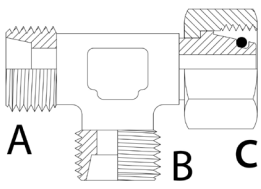

| Part # | Metric Light M | Metric Light M | Metric Light M |
|---|---|---|---|
| ML3M-12M-12M-12M | M12X1.5 | M12X1.5 | M12X1.5 |
| ML3M-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| ML3M-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| ML3M-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| ML3M-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| ML3M-26M-26M-26M | M26X1.5 | M26X1.5 | M26X1.5 |
| ML3M-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| ML3M-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| ML3M-45M-45M-45M | M45X2 | M45X2 | M45X2 |
| ML3M-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## ML3MFSL — Metric Light (L) Male X Metric Light (L) Male X Metric Light (L) F/S(Leg) Tee



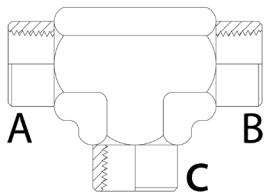

| Part # | Metric Light M | Metric Light M | Metric Light F/S |
|---|---|---|---|
| ML3MFSL-12M-12M-12M | M12X1.5 | M12X1.5 | M12X1.5 |
| ML3MFSL-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| ML3MFSL-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| ML3MFSL-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| ML3MFSL-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| ML3MFSL-26M-26M-26M | M26X1.5 | M26X1.5 | M26X1.5 |
| ML3MFSL-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| ML3MFSL-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| ML3MFSL-45M-45M-45M | M45X2 | M45X2 | M45X2 |
| ML3MFSL-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## ML3MFSR — Metric Light (L) Male X Metric Light (L) Male X Metric Light (L) F/S(Run) Tee



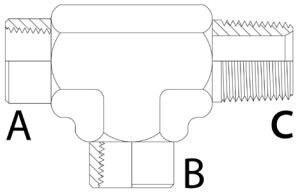

| Part # | Metric Light M | Metric Light M | Metric Light F/S |
|---|---|---|---|
| ML3MFSR-12M-12M-12M | M12X1.5 | M12X1.5 | M12X1.5 |
| ML3MFSR-14M-14M-14M | M14X1.5 | M14X1.5 | M14X1.5 |
| ML3MFSR-16M-16M-16M | M16X1.5 | M16X1.5 | M16X1.5 |
| ML3MFSR-18M-18M-18M | M18X1.5 | M18X1.5 | M18X1.5 |
| ML3MFSR-22M-22M-22M | M22X1.5 | M22X1.5 | M22X1.5 |
| ML3MFSR-26M-26M-26M | M26X1.5 | M26X1.5 | M26X1.5 |
| ML3MFSR-30M-30M-30M | M30X2 | M30X2 | M30X2 |
| ML3MFSR-36M-36M-36M | M36X2 | M36X2 | M36X2 |
| ML3MFSR-45M-45M-45M | M45X2 | M45X2 | M45X2 |
| ML3MFSR-52M-52M-52M | M52X2 | M52X2 | M52X2 |

## N3F — NPT Female Tee



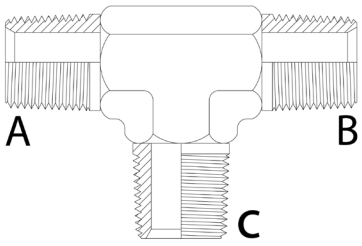

| Part # | NPT F | NPT F | NPT F |
|---|---|---|---|
| N3F-02-02-02 | 1/8 | 1/8 | 1/8 |
| N3F-04-04-04 | 1/4 | 1/4 | 1/4 |
| N3F-06-06-06 | 3/8 | 3/8 | 3/8 |
| N3F-08-08-08 | 1/2 | 1/2 | 1/2 |
| N3F-12-12-12 | 3/4 | 3/4 | 3/4 |
| N3F-16-16-16 | 1 | 1 | 1 |
| N3F-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |
| N3F-24-24-24 | 1 1/2 | 1 1/2 | 1 1/2 |
| N3F-32-32-32 | 2 | 2 | 2 |

## N3FMR — NPT Female X NPT Female X NPT Male (Run) Tee



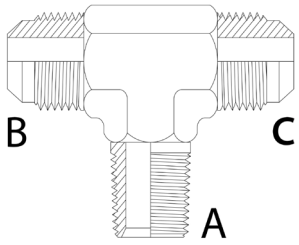

| Part # | NPT F | NPT F | NPT M |
|---|---|---|---|
| N3FMR-02-02-02 | 1/8 | 1/8 | 1/8 |
| N3FMR-04-04-04 | 1/4 | 1/4 | 1/4 |
| N3FMR-06-06-06 | 3/8 | 3/8 | 3/8 |
| N3FMR-08-08-08 | 1/2 | 1/2 | 1/2 |
| N3FMR-12-12-12 | 3/4 | 3/4 | 3/4 |
| N3FMR-16-16-16 | 1 | 1 | 1 |
| N3FMR-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |
| N3FMR-24-24-24 | 1 1/2 | 1 1/2 | 1 1/2 |

## N3M — NPT Male Tee



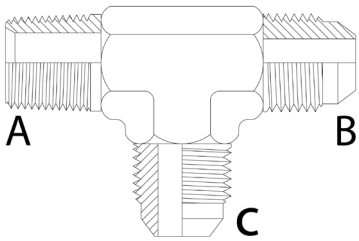

| Part # | NPT M | NPT M | NPT M |
|---|---|---|---|
| N3M-02-02-02 | 1/8 | 1/8 | 1/8 |
| N3M-04-04-04 | 1/4 | 1/4 | 1/4 |
| N3M-06-06-06 | 3/8 | 3/8 | 3/8 |
| N3M-08-08-08 | 1/2 | 1/2 | 1/2 |
| N3M-12-12-12 | 3/4 | 3/4 | 3/4 |
| N3M-16-16-16 | 1 | 1 | 1 |
| N3M-20-20-20 | 1 1/4 | 1 1/4 | 1 1/4 |

## NJ3ML — NPT Male (Leg) X JIC Male X JIC Male Tee



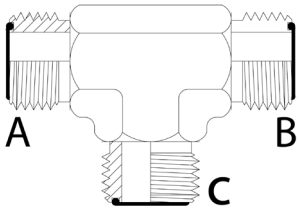

| Part # | NPT M | JIC M | JIC M |
|---|---|---|---|
| NJ3ML-02-04-04 | 1/8 | 7/16 | 7/16 |
| NJ3ML-04-04-04 | 1/4 | 7/16 | 7/16 |
| NJ3ML-04-06-06 | 1/4 | 9/16 | 9/16 |
| NJ3ML-06-06-06 | 3/8 | 9/16 | 9/16 |
| NJ3ML-06-08-08 | 3/8 | 3/4 | 3/4 |
| NJ3ML-08-08-08 | 1/2 | 3/4 | 3/4 |
| NJ3ML-08-10-10 | 1/2 | 7/8 | 7/8 |
| NJ3ML-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| NJ3ML-16-16-16 | 1 | 1 5/16 | 1 5/16 |

## NJ3MR — NPT Male (Run) X JIC Male X JIC Male Tee



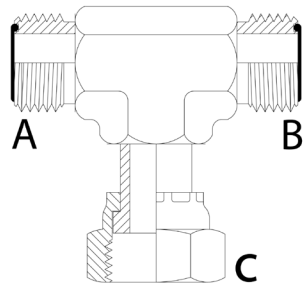

| Part # | NPT M | JIC M | JIC M |
|---|---|---|---|
| NJ3MR-02-04-04 | 1/8 | 7/16 | 7/16 |
| NJ3MR-04-04-04 | 1/4 | 7/16 | 7/16 |
| NJ3MR-04-06-06 | 1/4 | 9/16 | 9/16 |
| NJ3MR-06-06-06 | 3/8 | 9/16 | 9/16 |
| NJ3MR-06-08-08 | 3/8 | 3/4 | 3/4 |
| NJ3MR-08-08-08 | 1/2 | 3/4 | 3/4 |
| NJ3MR-08-10-10 | 1/2 | 7/8 | 7/8 |
| NJ3MR-12-12-12 | 3/4 | 1 1/16 | 1 1/16 |
| NJ3MR-16-16-16 | 1 | 1 5/16 | 1 5/16 |

## ORS3M — ORFS Male Tee



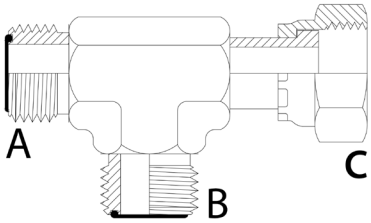

| Part # | ORFS M | ORFS M | ORFS M |
|---|---|---|---|
| ORS3M-04-04-04 | 9/16 | 9/16 | 9/16 |
| ORS3M-06-06-06 | 11/16 | 11/16 | 11/16 |
| ORS3M-08-08-08 | 13/16 | 13/16 | 13/16 |
| ORS3M-10-10-10 | 1 | 1 | 1 |
| ORS3M-12-12-12 | 1 3/16 | 1 3/16 | 1 3/16 |
| ORS3M-16-16-16 | 1 7/16 | 1 7/16 | 1 7/16 |
| ORS3M-20-20-20 | 1 11/16 | 1 11/16 | 1 11/16 |
| ORS3M-24-24-24 | 2 | 2 | 2 |

## ORS3MFSL — ORFS Male X ORFS Male X ORFS Female Swivel (Leg)Tee



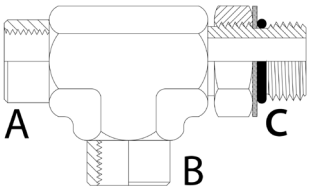

| Part # | ORFS M | ORFS M | ORFS F/S |
|---|---|---|---|
| ORS3MFSL-04-04-04 | 9/16 | 9/16 | 9/16 |
| ORS3MFSL-06-06-06 | 11/16 | 11/16 | 11/16 |
| ORS3MFSL-08-08-08 | 13/16 | 13/16 | 13/16 |
| ORS3MFSL-10-10-10 | 1 | 1 | 1 |
| ORS3MFSL-12-12-12 | 1 3/16 | 1 3/16 | 1 3/16 |
| ORS3MFSL-16-16-16 | 1 7/16 | 1 7/16 | 1 7/16 |
| ORS3MFSL-20-20-20 | 1 11/16 | 1 11/16 | 1 11/16 |
| ORS3MFSL-24-24-24 | 2 | 2 | 2 |

## ORS3MFSR — ORFS Male X ORFS Male X ORFS Female Swivel (Run) Tee



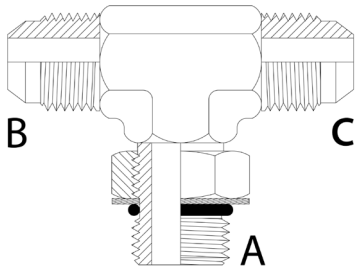

| Part # | ORFS M | ORFS M | ORFS F/S |
|---|---|---|---|
| ORS3MFSR-04-04-04 | 9/16 | 9/16 | 9/16 |
| ORS3MFSR-06-06-06 | 11/16 | 11/16 | 11/16 |
| ORS3MFSR-08-08-08 | 13/16 | 13/16 | 13/16 |
| ORS3MFSR-10-10-10 | 1 | 1 | 1 |
| ORS3MFSR-12-12-12 | 1 3/16 | 1 3/16 | 1 3/16 |
| ORS3MFSR-16-16-16 | 1 7/16 | 1 7/16 | 1 7/16 |
| ORS3MFSR-20-20-20 | 1 11/16 | 1 11/16 | 1 11/16 |
| ORS3MFSR-24-24-24 | 2 | 2 | 2 |

## U3FMR — UNO Female X UNO Female X UNO Male (Run) Tee



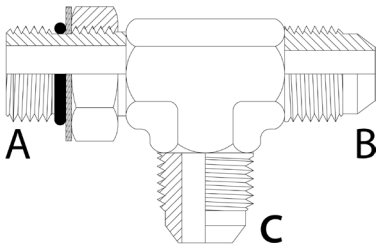

| Part # | UNO F | UNO F | UNO M |
|---|---|---|---|
| U3FMR-06-06-06 | 9/16 | 9/16 | 9/16 |

## UJ3ML — UNO Male (Leg) X JIC Male X JIC Male Tee



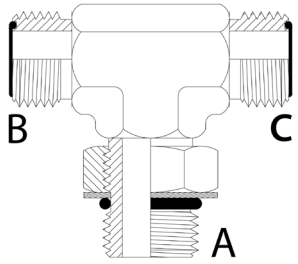

| Part # | UNO M | JIC M | JIC M |
|---|---|---|---|
| UJ3ML-04-04-04 | 7/16 | 7/16 | 7/16 |
| UJ3ML-04-06-06 | 7/16 | 9/16 | 9/16 |
| UJ3ML-06-04-04 | 9/16 | 7/16 | 7/16 |
| UJ3ML-06-06-06 | 9/16 | 9/16 | 9/16 |
| UJ3ML-08-06-06 | 3/4 | 9/16 | 9/16 |
| UJ3ML-08-08-08 | 3/4 | 3/4 | 3/4 |
| UJ3ML-10-08-08 | 7/8 | 3/4 | 3/4 |
| UJ3ML-10-10-10 | 7/8 | 7/8 | 7/8 |
| UJ3ML-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| UJ3ML-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |
| UJ3ML-20-20-20 | 1 5/8 | 1 5/8 | 1 5/8 |

## UJ3MR — UNO Male (Run) X JIC Male X JIC Male Tee



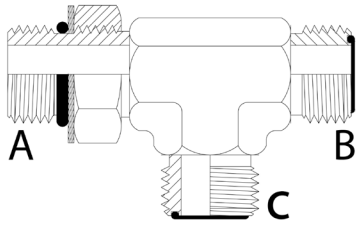

| Part # | UNO M | JIC M | JIC M |
|---|---|---|---|
| UJ3MR-04-04-04 | 7/16 | 7/16 | 7/16 |
| UJ3MR-06-04-04 | 9/16 | 7/16 | 7/16 |
| UJ3MR-06-06-06 | 9/16 | 9/16 | 9/16 |
| UJ3MR-06-08-08 | 9/16 | 3/4 | 3/4 |
| UJ3MR-08-06-06 | 3/4 | 9/16 | 9/16 |
| UJ3MR-08-08-08 | 3/4 | 3/4 | 3/4 |
| UJ3MR-10-10-10 | 7/8 | 7/8 | 7/8 |
| UJ3MR-12-12-12 | 1 1/16 | 1 1/16 | 1 1/16 |
| UJ3MR-16-16-16 | 1 5/16 | 1 5/16 | 1 5/16 |
| UJ3MR-20-20-20 | 1 5/8 | 1 5/8 | 1 5/8 |
| UJ3MR-24-24-24 | 1 7/8 | 1 7/8 | 1 7/8 |

## UORS3ML — UNO Male(Leg) X ORFSM X ORFSM Tee




| Part # | UNO M | ORFS M | ORFS M |
|---|---|---|---|
| UORS3ML-06-06-06 | 9/16 | 11/16 | 11/16 |
| UORS3ML-08-08-08 | 3/4 | 13/16 | 13/16 |
| UORS3ML-10-10-10 | 7/8 | 1 | 1 |
| UORS3ML-12-12-12 | 1 1/16 | 1 3/16 | 1 3/16 |

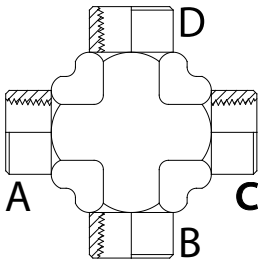
## UORS3MR — UNO Male (Run) X ORFS Male X ORFS Male Tee




| Part # | UNO M | ORFS M | ORFS M |
|---|---|---|---|
| UORS3MR-04-04-04 | 7/16 | 9/16 | 9/16 |
| UORS3MR-06-06-06 | 9/16 | 11/16 | 11/16 |
| UORS3MR-08-08-08 | 3/4 | 13/16 | 13/16 |
| UORS3MR-10-10-10 | 7/8 | 1 | 1 |
| UORS3MR-12-12-12 | 1 1/16 | 1 13/16 | 1 13/16 |
| UORS3MR-16-16-16 | 1 5/16 | 1 7/16 | 1 7/16 |
| UORS3MR-20-20-20 | 1 5/8 | 1 11/16 | 1 11/16 |

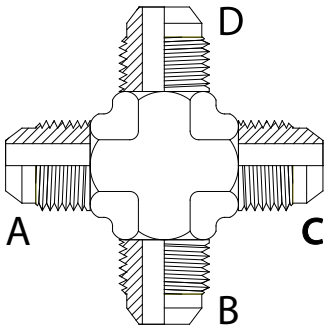
## Cross Adaptors

### BXF — BSPT Female Cross



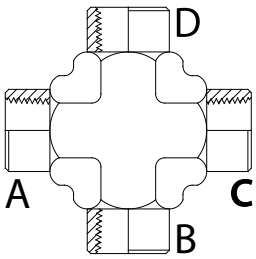

| Part # | BSP F | BSP F | BSP F | BSP F |
|---|---|---|---|---|
| BXF-04-04-04-04 | 1/4 | 1/4 | 1/4 | 1/4 |
| BXF-06-06-06-06 | 3/8 | 3/8 | 3/8 | 3/8 |
| BXF-08-08-08-08 | 1/2 | 1/2 | 1/2 | 1/2 |
| BXF-12-12-12-12 | 3/4 | 3/4 | 3/4 | 3/4 |
| BXF-16-16-16-16 | 1 | 1 | 1 | 1 |

### JXM — JIC Male Cross




| Part # | JIC M | JIC M | JIC M | JIC M |
|---|---|---|---|---|
| JXM-06-06-06-06 | 9/16 | 9/16 | 9/16 | 9/16 |
| JXM-08-08-08-08 | 3/4 | 3/4 | 3/4 | 3/4 |

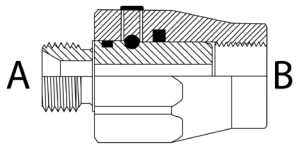
### NXF — NPT Female Cross




| Part # | NPT F | NPT F | NPT F | NPT F |
|---|---|---|---|---|
| NXF-08-08-08-08 | 1/2 | 1/2 | 1/2 | 1/2 |
| NXF-12-12-12-12 | 3/4 | 3/4 | 3/4 | 3/4 |

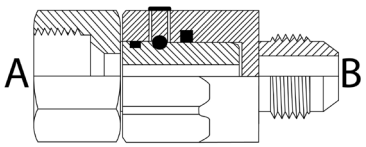
# Swivel Joints

## SWJ-BP1MF — BSPP Male Stem X BSPP Female Body In-Line Swivel Joint



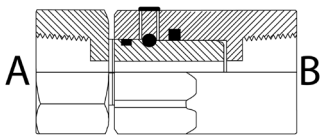

| Part # | BSPP M | BSPP F |
|---|---|---|
| SWJ-BP1MF-04S-04B | 1/4 | 1/4 |
| SWJ-BP1MF-06S-06B | 3/8 | 3/8 |
| SWJ-BP1MF-08S-08B | 1/2 | 1/2 |
| SWJ-BP1MF-12S-12B | 3/4 | 3/4 |
| SWJ-BP1MF-16S-16B | 1 | 1 |
| SWJ-BP1MF-20S-20B | 1 1/4 | 1 1/4 |

## SWJ-J1FM — JIC Female Stem X JIC Male Body In-Line Swivel Joint



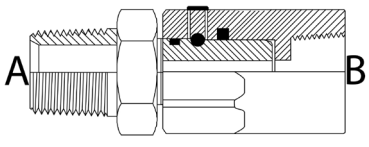

| Part # | JIC F | JIC M |
|---|---|---|
| SWJ-J1FM-06S-06B | 9/16 | 9/16 |
| SWJ-J1FM-08S-08B | 3/4 | 3/4 |
| SWJ-J1FM-10S-10B | 7/8 | 7/8 |
| SWJ-J1FM-12S-12B | 1 1/16 | 1 1/16 |
| SWJ-J1FM-16S-16B | 1 5/16 | 1 5/16 |
| SWJ-J1FM-20S-20B | 1 5/8 | 1 5/8 |

## SWJ-N1F — NPT Female Stem X NPT Female Body In-Line Swivel Joint



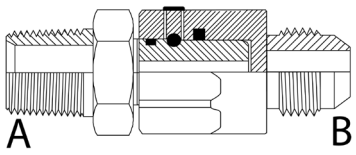

| Part # | NPT F | NPT F |
|---|---|---|
| SWJ-N1F-04S-04B | 1/4 | 1/4 |
| SWJ-N1F-06S-06B | 3/8 | 3/8 |
| SWJ-N1F-08S-08B | 1/2 | 1/2 |
| SWJ-N1F-12S-12B | 3/4 | 3/4 |
| SWJ-N1F-16S-16B | 1 | 1 |

## SWJ-N1MF — NPT Male Stem X NPT Female Body In-Line Swivel Joint



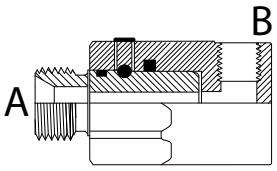

| Part # | NPT M | NPT F |
|---|---|---|
| SWJ-N1MF-04S-04B | 1/4 | 1/4 |
| SWJ-N1MF-06S-06B | 3/8 | 3/8 |
| SWJ-N1MF-08S-08B | 1/2 | 1/2 |
| SWJ-N1MF-12S-08B | 3/4 | 1/2 |
| SWJ-N1MF-12S-12B | 3/4 | 3/4 |
| SWJ-N1MF-16S-16B | 1 | 1 |

## SWJ-NJ1M — NPT Male Stem X JIC Male Body In-Line Swivel Joint



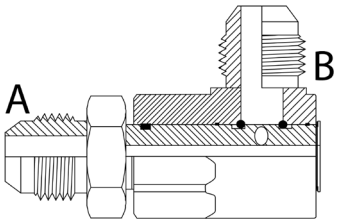

| Part # | NPT M | JIC M |
|---|---|---|
| SWJ-NJ1M-04S-06B | 1/4 | 9/16 |
| SWJ-NJ1M-08S-10B | 1/2 | 7/8 |
| SWJ-NJ1M-12S-12B | 3/4 | 1 1/16 |
| SWJ-NJ1M-16S-16B | 1 | 1 5/16 |

## SWJ-BP9MF — BSPP Male Stem X BSPP Female Body 90° Swivel Joint



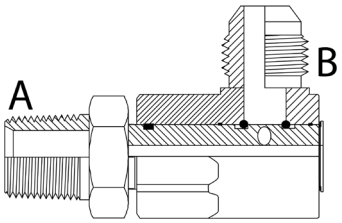

| Part # | BSPP M | BSPP F |
|---|---|---|
| SWJ-BP9MF-04S-04B | 1/4 | 1/4 |
| SWJ-BP9MF-06S-06B | 3/8 | 3/8 |
| SWJ-BP9MF-08S-08B | 1/2 | 1/2 |
| SWJ-BP9MF-12S-12B | 3/4 | 3/4 |
| SWJ-BP9MF-16S-16B | 1 | 1 |

## SWJ-J9M — JIC Male Stem X JIC Male Body 90° Swivel Joint



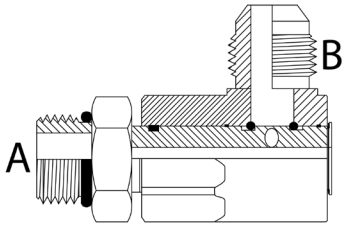

| Part # | JIC M | JIC M |
|---|---|---|
| SWJ-J9M-06S-06B | 9/16 | 9/16 |
| SWJ-J9M-08S-08B | 3/4 | 3/4 |
| SWJ-J9M-10S-10B | 7/8 | 7/8 |
| SWJ-J9M-12S-12B | 1 1/16 | 1 1/16 |
| SWJ-J9M-16S-16B | 1 5/16 | 1 5/16 |
| SWJ-J9M-20S-20B | 1 5/8 | 1 5/8 |

## SWJ-NJ9M — NPT Male Stem X JIC Male Body 90° Swivel Joint




| Part # | NPT M | JIC M |
|---|---|---|
| SWJ-NJ9M-06S-06B | 3/8 | 9/16 |
| SWJ-NJ9M-06S-08B | 3/8 | 3/4 |
| SWJ-NJ9M-08S-08B | 1/2 | 3/4 |
| SWJ-NJ9M-08S-10B | 1/2 | 7/8 |
| SWJ-NJ9M-12S-12B | 3/4 | 1 1/16 |
| SWJ-NJ9M-16S-16B | 1 | 1 5/16 |

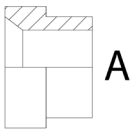
## SWJ-UJ9M — UNO Male Stem X JIC Male Body 90° Swivel Joint




| Part # | UNO M | JIC M |
|---|---|---|
| SWJ-UJ9M-06S-06B | 9/16 | 9/16 |
| SWJ-UJ9M-08S-06B | 3/4 | 9/16 |
| SWJ-UJ9M-08S-08B | 3/4 | 3/4 |
| SWJ-UJ9M-10S-10B | 7/8 | 7/8 |
| SWJ-UJ9M-12S-12B | 1 1/16 | 1 1/16 |
| SWJ-UJ9M-16S-16B | 1 5/16 | 1 5/16 |
| SWJ-UJ9M-20S-20B | 1 5/8 | 1 5/8 |

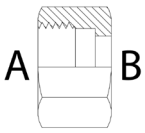
## Tube Nuts and Sleeves

### JFF — Flare Tube Sleeve



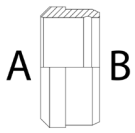

| Part # | Suits JIC F | Tube |
|---|---|---|
| JFF-04 | 7/16 | 1/4 |
| JFF-05 | 1/2 | 5/16 |
| JFF-06 | 9/16 | 3/8 |
| JFF-08 | 3/4 | 1/2 |
| JFF-10 | 7/8 | 5/8 |
| JFF-12 | 1 1/16 | 3/4 |
| JFF-16 | 1 5/16 | 1 |
| JFF-20 | 1 5/8 | 1 1/4 |
| JFF-24 | 1 7/8 | 1 1/2 |

### JNF — JIC X Tube Nut



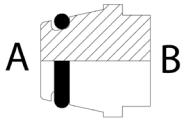

| Part # | JIC F | Tube |
|---|---|---|
| JNF-04 | 7/16 | 1/4 |
| JNF-05 | 1/2 | 5/16 |
| JNF-06 | 9/16 | 3/8 |
| JNF-08 | 3/4 | 1/2 |
| JNF-10 | 7/8 | 5/8 |
| JNF-12 | 1 1/16 | 3/4 |
| JNF-16 | 1 5/16 | 1 |
| JNF-20 | 1 5/8 | 1 1/4 |
| JNF-24 | 1 7/8 | 1 1/2 |

## MHF — Metric Heavy (S) Cutting Ring



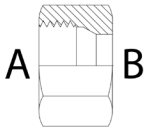

| Part # | Suits Metric Heavy F | Tube (MM) |
|---|---|---|
| MHF-14M | M14X1.5 | 6 |
| MHF-16M | M16X1.5 | 8 |
| MHF-18M | M18X1.5 | 10 |
| MHF-20M | M20X1.5 | 12 |
| MHF-22M | M22X1.5 | 14 |
| MHF-24M | M24X1.5 | 16 |
| MHF-30M | M30X2 | 20 |
| MHF-36M | M36X2 | 25 |
| MHF-42M | M42X2 | 30 |
| MHF-52M | M52X2 | 38 |

## MHI — Metric Heavy (S) Insert



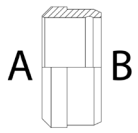

| Part # | Suits Metric Heavy F | Tube (MM) |
|---|---|---|
| MHI-22M | M22X1.5 | 14 |
| MHI-24M | M24X1.5 | 16 |
| MHI-30M | M30X2 | 20 |
| MHI-36M | M36X2 | 25 |
| MHI-42M | M42X2 | 30 |
| MHI-52M | M52x2 | 38 |

## MHN — Metric Heavy (S) Tube Nut



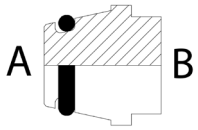

| Part # | Metric Heavy F | Tube (MM) |
|---|---|---|
| MHN-14M | M14X1.5 | 6 |
| MHN-16M | M16X1.5 | 8 |
| MHN-18M | M18X1.5 | 10 |
| MHN-20M | M20X1.5 | 12 |
| MHN-22M | M22X1.5 | 14 |
| MHN-24M | M24X1.5 | 16 |
| MHN-30M | M30X2 | 20 |
| MHN-36M | M36X2 | 25 |
| MHN-42M | M42X2 | 30 |
| MHN-52M | M52X2 | 38 |

## MLF — Metric Light (L) Cutting Ring



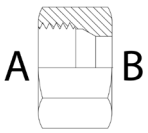

| Part # | Suits Metric Light F | Tube (MM) |
|---|---|---|
| MLF-12M | M12X1.5 | 6 |
| MLF-14M | M14X1.5 | 8 |
| MLF-16M | M16X1.5 | 10 |
| MLF-18M | M18X1.5 | 12 |
| MLF-22M | M22X1.5 | 15 |
| MLF-26M | M26X1.5 | 18 |
| MLF-30M | M30X2 | 22 |
| MLF-36M | M36X2 | 28 |
| MLF-45M | M45X2 | 35 |
| MLF-52M | M52X2 | 42 |

## MLI — Metric Light (L) Insert




| Part # | Suits Metric Light F | Tube (MM) |
|---|---|---|
| MLI-12M | M12X1.5 | 6 |
| MLI-14M | M14X1.5 | 8 |
| MLI-16M | M16X1.5 | 10 |
| MLI-18M | M18X1.5 | 12 |
| MLI-22M | M22X1.5 | 15 |
| MLI-26M | M26X1.5 | 18 |
| MLI-30M | M30X2 | 22 |
| MLI-36M | M36X2 | 28 |
| MLI-45M | M45X2 | 35 |
| MLI-52M | M52X2 | 42 |

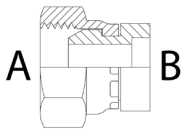
## MLN — Metric Light (L) Tube Nut




| Part # | Metric Light F | Tube (MM) |
|---|---|---|
| MLN-12M | M12X1.5 | 6 |
| MLN-14M | M14X1.5 | 8 |
| MLN-16M | M16X1.5 | 10 |
| MLN-18M | M18X1.5 | 12 |
| MLN-22M | M22X1.5 | 15 |
| MLN-26M | M26X1.5 | 18 |
| MLN-30M | M30X2 | 22 |
| MLN-36M | M36X2 | 28 |
| MLN-45M | M45X2 | 35 |
| MLN-52M | M52X2 | 42 |

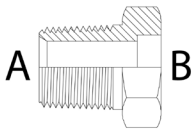
# Tube Weld

## BFSTW — BSPP Female Swivel X O D Tube Weld



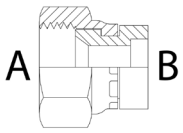

| Part # | BSPP F/S | Tube |
|---|---|---|
| BFSTW-04-04 | 1/4 | 1/4 |
| BFSTW-04-06 | 1/4 | 3/8 |
| BFSTW-06-06 | 3/8 | 3/8 |
| BFSTW-08-08 | 1/2 | 1/2 |
| BFSTW-12-12 | 3/4 | 3/4 |
| BFSTW-16-16 | 1 | 1 |
| BFSTW-20-20 | 1 1/4 | 1 1/4 |
| BFSTW-24-24 | 1 1/2 | 1 1/2 |
| BFSTW-32-32 | 2 | 2 |

## BMTW — BSPT Male X O D Tube Weld



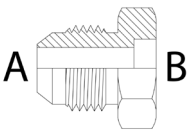

| Part # | BSPT M | Tube |
|---|---|---|
| BMTW-04-04 | 1/4 | 1/4 |
| BMTW-04-06 | 1/4 | 3/8 |
| BMTW-06-06 | 3/8 | 3/8 |
| BMTW-06-08 | 3/8 | 1/2 |
| BMTW-08-08 | 1/2 | 1/2 |
| BMTW-08-10 | 1/2 | 5/8 |
| BMTW-08-12 | 1/2 | 3/4 |
| BMTW-12-12 | 3/4 | 3/4 |
| BMTW-12-16 | 3/4 | 1 |
| BMTW-16-16 | 1 | 1 |
| BMTW-16-20 | 1 | 1 1/4 |
| BMTW-20-20 | 1 1/4 | 1 1/4 |

## JFSTW — JIC Female Swivel X Tube Weld




| Part # | JIC F/S | Tube |
|---|---|---|
| JFSTW-04-04 | 7/16 | 1/4 |
| JFSTW-06-04 | 9/16 | 1/4 |
| JFSTW-06-06 | 9/16 | 3/8 |
| JFSTW-08-06 | 3/4 | 3/8 |
| JFSTW-08-08 | 3/4 | 1/2 |
| JFSTW-08-10 | 3/4 | 5/8 |
| JFSTW-10-08 | 7/8 | 1/2 |
| JFSTW-10-10 | 7/8 | 5/8 |
| JFSTW-10-12 | 7/8 | 3/4 |
| JFSTW-12-12 | 1 1/16 | 3/4 |
| JFSTW-12-16 | 1 1/16 | 1 |
| JFSTW-16-16 | 1 5/16 | 1 |
| JFSTW-16-20 | 1 5/16 | 1 1/4 |
| JFSTW-20-20 | 1 5/8 | 1 1/4 |
| JFSTW-20-24 | 1 5/8 | 1 1/2 |
| JFSTW-24-24 | 1 7/8 | 1 1/2 |
| JFSTW-32-32 | 2 1/2 | 2 |

## JMTW — JIC Male X Tube Weld



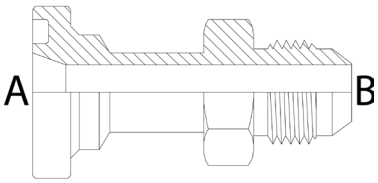

| Part # | JIC M | Tube |
|---|---|---|
| JMTW-04-04 | 7/16 | 1/4 |
| JMTW-04-06 | 7/16 | 3/8 |
| JMTW-06-06 | 9/16 | 3/8 |
| JMTW-08-06 | 3/4 | 3/8 |
| JMTW-08-08 | 3/4 | 1/2 |
| JMTW-08-10 | 3/4 | 5/8 |
| JMTW-10-08 | 7/8 | 1/2 |
| JMTW-12-12 | 1 1/16 | 3/4 |
| JMTW-12-16 | 1 1/16 | 1 |
| JMTW-14-14 | 1 3/16 | 7/8 |
| JMTW-16-16 | 1 5/16 | 1 |
| JMTW-16-20 | 1 5/16 | 1 1/4 |
| JMTW-20-20 | 1 5/8 | 1 1/4 |
| JMTW-24-24 | 1 7/8 | 1 1/2 |
| JMTW-32-32 | 2 1/2 | 2 |



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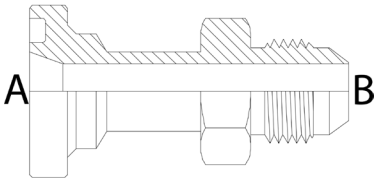
# Flange Adaptors

## SF61J1M — Code 61 Flange X JIC Male




| Part # | Code 61 | JIC M |
|---|---|---|
| SF61J1M-08-08 | 1/2 | 3/4 |
| SF61J1M-12-08 | 3/4 | 3/4 |
| SF61J1M-12-12 | 3/4 | 1 1/16 |
| SF61J1M-12-16 | 3/4 | 1 5/16 |
| SF61J1M-16-12 | 1 | 1 1/16 |
| SF61J1M-16-16 | 1 | 1 5/16 |
| SF61J1M-16-20 | 1 | 1 5/8 |
| SF61J1M-20-12 | 1 1/4 | 1 1/16 |
| SF61J1M-20-16 | 1 1/4 | 1 5/16 |
| SF61J1M-20-20 | 1 1/4 | 1 5/8 |
| SF61J1M-24-16 | 1 1/2 | 1 5/16 |
| SF61J1M-24-20 | 1 1/2 | 1 5/8 |
| SF61J1M-24-24 | 1 1/2 | 1 7/8 |
| SF61J1M-32-24 | 2 | 1 7/8 |
| SF61J1M-32-32 | 2 | 2 1/2 |

## SF62J1M — Code 62 Flange X JIC Male

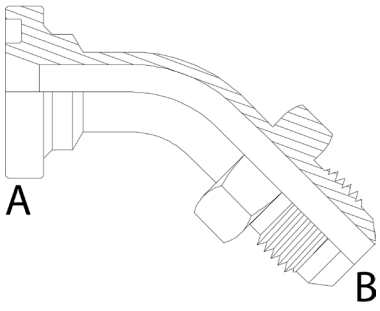



| Part # | Code 62 | JIC M |
|---|---|---|
| SF62J1M-08-08 | 1/2 | 3/4 |
| SF62J1M-12-12 | 3/4 | 1 1/16 |
| SF62J1M-12-16 | 3/4 | 1 5/16 |
| SF62J1M-16-12 | 1 | 1 1/16 |
| SF62J1M-16-16 | 1 | 1 5/16 |
| SF62J1M-20-12 | 1 1/4 | 1 1/16 |
| SF62J1M-20-16 | 1 1/4 | 1 5/16 |
| SF62J1M-20-20 | 1 1/4 | 1 5/8 |
| SF62J1M-24-16 | 1 1/2 | 1 5/16 |
| SF62J1M-24-20 | 1 1/2 | 1 5/8 |
| SF62J1M-24-24 | 1 1/2 | 1 7/8 |

# Adaptors

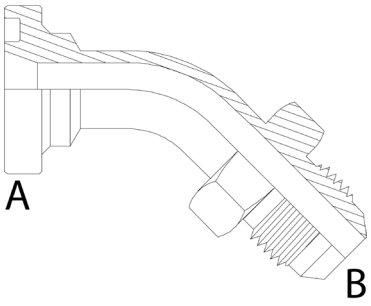


## SF61J4M — Code61 Flange X JIC Male Swept 45°



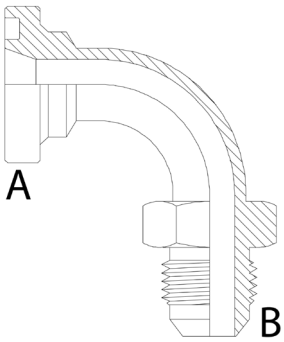

| Part # | Code61 | JIC M |
|---|---|---|
| SF61J4M-08-08 | 1/2 | 3/4 |
| SF61J4M-12-12 | 3/4 | 1 1/16 |
| SF61J4M-16-12 | 1 | 1 1/16 |
| SF61J4M-16-16 | 1 | 1 5/16 |
| SF61J4M-20-16 | 1 1/4 | 1 5/16 |
| SF61J4M-20-20 | 1 1/4 | 1 5/8 |
| SF61J4M-24-24 | 1 1/2 | 1 7/8 |

## SF62J4M — Code 62 Flange X JIC Male Swept 45°



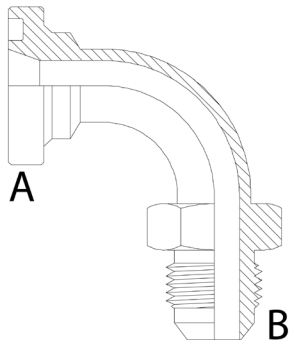

| Part # | Code 62 | JIC M |
|---|---|---|
| SF62J4M-20-20 | 1 1/4 | 1 5/8 |

## SF61J9M — Code 61 Flange X JIC Male Swept 90°



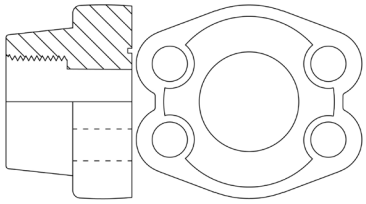

| Part # | Code 61 | JIC M |
|---|---|---|
| SF61J9M-08-08 | 1/2 | 3/4 |
| SF61J9M-12-12 | 3/4 | 1 1/16 |
| SF61J9M-16-12 | 1 | 1 1/16 |
| SF61J9M-16-16 | 1 | 1 5/16 |
| SF61J9M-20-16 | 1 1/4 | 1 5/16 |
| SF61J9M-20-20 | 1 1/4 | 1 5/8 |
| SF61J9M-20-24 | 1 1/4 | 1 7/8 |
| SF61J9M-24-16 | 1 1/2 | 1 5/16 |
| SF61J9M-24-20 | 1 1/2 | 1 5/8 |
| SF61J9M-24-24 | 1 1/2 | 1 7/8 |
| SF61J9M-32-20 | 2 | 1 5/8 |
| SF61J9M-32-32 | 2 | 2 1/2 |

## SF62J9M — Code 62 Flange X JIC Male Swept 90°



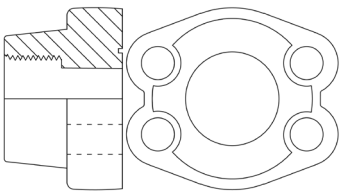

| Part # | Code 62 | JIC M |
|---|---|---|
| SF62J9M-12-12 | 3/4 | 1 1/16 |
| SF62J9M-12-16 | 3/4 | 1 5/16 |
| SF62J9M-16-12 | 1 | 1 1/16 |
| SF62J9M-16-16 | 1 | 1 5/16 |
| SF62J9M-20-12 | 1 1/4 | 1 1/16 |
| SF62J9M-20-16 | 1 1/4 | 1 5/16 |
| SF62J9M-20-20 | 1 1/4 | 1 5/8 |
| SF62J9M-24-16 | 1 1/2 | 1 5/16 |
| SF62J9M-24-20 | 1 1/2 | 1 5/8 |
| SF62J9M-24-24 | 1 1/2 | 1 7/8 |
| SF62J9M-32-32 | 2 | 2 1/2 |

## F61BP1F — Code 61 Flange Block X BSPP Female Straight



| Part # | Code 61 | BSPP F |
|---|---|---|
| F61BP1F-08-08 | 1/2 | 1/2 |
| F61BP1F-12-12 | 3/4 | 3/4 |
| F61BP1F-16-16 | 1 | 1 |
| F61BP1F-20-20 | 1 1/4 | 1 1/4 |
| F61BP1F-24-24 | 1 1/2 | 1 1/2 |
| F61BP1F-32-32 | 2 | 2 |
| F61BP1F-40-40 | 2 1/2 | 2 1/2 |
| F61BP1F-48-48 | 3 | 3 |

## F62BP1F — Code 62 Flange Block X BSPP Female Straight

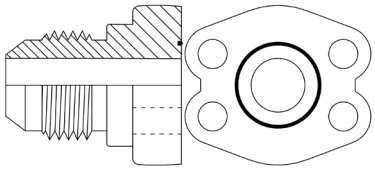


| Part # | Code 62 | BSPP F |
|---|---|---|
| F62BP1F-08-08 | 1/2 | 1/2 |
| F62BP1F-12-12 | 3/4 | 3/4 |
| F62BP1F-16-16 | 1 | 1 |
| F62BP1F-20-20 | 1 1/4 | 1 1/4 |
| F62BP1F-24-24 | 1 1/2 | 1 1/2 |
| F62BP1F-32-32 | 2 | 2 |

# Adaptors

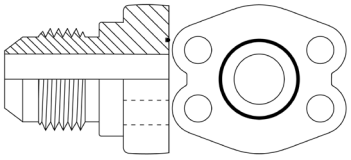


## F61J1M — Code 61 Flange Block X JIC Male Straight



| Part # | Code 61 | JIC M |
|---|---|---|
| F61J1M-08-08 | 1/2 | 3/4 |
| F61J1M-12-12 | 3/4 | 1 1/16 |
| F61J1M-16-16 | 1 | 1 5/16 |
| F61J1M-16-20 | 1 | 1 5/8 |
| F61J1M-20-20 | 1 1/4 | 1-5/8 |
| F61J1M-24-24 | 1 1/2 | 1-7/8 |
| F61J1M-32-32 | 2 | 2 1/2 |

## F62J1M — Code 62 Flange Block X JIC Male Straight

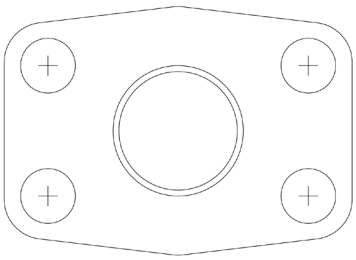


| Part # | Code 62 | JIC M |
|---|---|---|
| F62J1M-08-08 | 1/2 | 3/4 |
| F62J1M-12-12 | 3/4 | 1 1/16 |
| F62J1M-16-16 | 1 | 1 5/16 |
| F62J1M-20-20 | 1 1/4 | 1-5/8 |
| F62J1M-24-24 | 1 1/2 | 1-7/8 |


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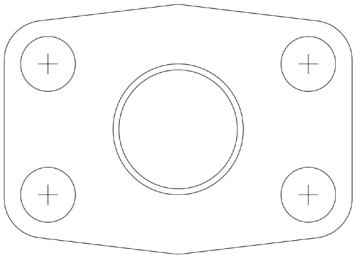
# Flange Blanks

## FB61 — Code 61 Flange Blank (High Pressure)



| Part # | Code 61 |
|---|---|
| FB61-08 | 1/2 |
| FB61-12 | 3/4 |
| FB61-16 | 1 |
| FB61-20 | 1 1/4 |
| FB61-24 | 1 1/2 |
| FB61-32 | 2 |

## FB62 — Code 62 Flange Blank (High Pressure)



| Part # | Code 62 |
|---|---|
| FB62-08 | 1/2 |
| FB62-12 | 3/4 |
| FB62-16 | 1 |
| FB62-20 | 1 1/4 |
| FB62-24 | 1 1/2 |
| FB62-32 | 2 |

## FBC — Flange Blank Cap



| Part # | Code 61/62 |
|---|---|
| FBC-MULTI-20 | 1 1/4 |
| FBC-MULTI-24 | 1 1/2 |

## FBCK — Flange Blank Cap Kit

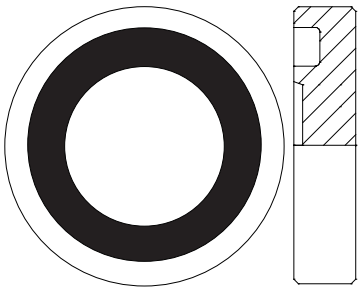


| Part # | Contains |
|---|---|
| FBCK-1 | 1/2 Code 61/62(x2), 5/8 Code 61/62 (x2), 3/4 Code 61/62 (x4), 1 Code 61/62 (x4), 1-1/4 Code 61/62 (x4) |
| FBCK-2 | 1/2 Code 61/62 (x2), 5/8 Code 61/62 (x2), 3/4 Code 61/62 (x4), 1 Code 61/62 (x4), 1-1/4 Code 61/62 (x4), 1-1/2 Code 61/62 (x4), 2 Code 61(x2), 2 Code 62(x2) |
| FBCK-3 | 3/4 Code 61/62 (x4), 1 Code 61/62 (x4), 1-1/4 Code 61/62 (x4), 1-1/2 Code 61/62 (x4) |

# Adaptors

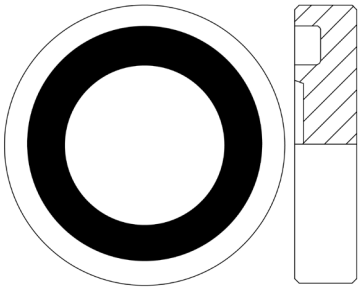


## FBI61 — Code 61 Flange Blank Insert



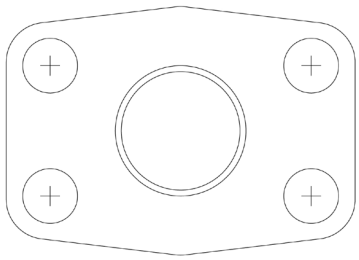
| Part # | Code 61 |
|---|---|
| FBI61-08 | 1/2 |
| FBI61-12 | 3/4 |
| FBI61-16 | 1 |
| FBI61-20 | 1 1/4 |
| FBI61-24 | 1 1/2 |
| FBI61-32 | 2 |
| FBI61-40 | 2 1/2 |
| FBI61-48 | 3 |

## FBI62 — Code 62 Flange Blank Insert



| Part # | Code 62 |
|---|---|
| FBI62-08 | 1/2 |
| FBI62-12 | 3/4 |
| FBI62-16 | 1 |
| FBI62-20 | 1 1/4 |
| FBI62-24 | 1 1/2 |
| FBI62-32 | 2 |

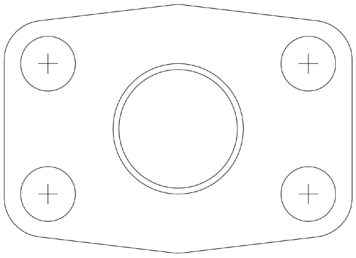
## FBL61 — Code 61 Flange Blank (Low Pressure)



| Part # | Code 61 |
|---|---|
| FBL61-08 | 1/2 |
| FBL61-12 | 3/4 |
| FBL61-16 | 1 |
| FBL61-20 | 1 1/4 |
| FBL61-24 | 1 1/2 |
| FBL61-32 | 2 |
| FBL61-40 | 2 1/2 |
| FBL61-48 | 3 |
| FBL61-56 | 3 1/2 |

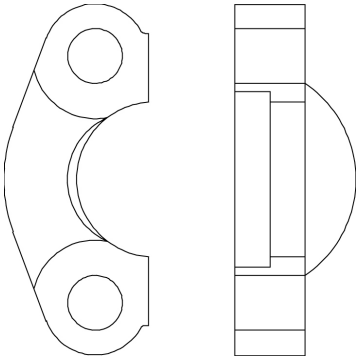

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## FBL62 — Code 62 Flange Blank (Low Pressure)



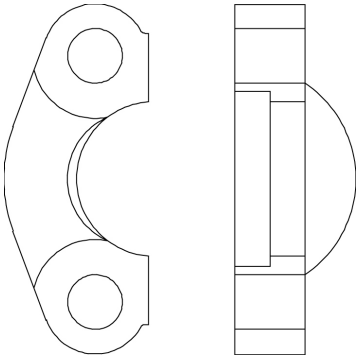
| Part # | Code 62 |
|---|---|
| FBL62-08 | 1/2 |
| FBL62-12 | 3/4 |
| FBL62-16 | 1 |
| FBL62-20 | 1 1/4 |
| FBL62-24 | 1 1/2 |
| FBL62-32 | 2 |

## SFC61 — Code 61 Split Flange Clamp (Pair)



| Part # | Code 61 |
|---|---|
| SFC61-08 | 1/2 |
| SFC61-12 | 3/4 |
| SFC61-16 | 1 |
| SFC61-20 | 1 1/4 |
| SFC61-24 | 1 1/2 |
| SFC61-32 | 2 |
| SFC61-40 | 2 1/2 |
| SFC61-48 | 3 |

## SFC62 — Code 62 Split Flange Clamp (Pair)



| Part # | Code 62 |
|---|---|
| SFC62-08 | 1/2 |
| SFC62-12 | 3/4 |
| SFC62-16 | 1 |
| SFC62-20 | 1 1/4 |
| SFC62-24 | 1 1/2 |
| SFC62-32 | 2 |

## SFK61 — Code 61 Split Flange Kit (Imperial Bolt Set)



| Part # | Code 61 |
|---|---|
| SFK61-08 | 1/2 |
| SFK61-12 | 3/4 |
| SFK61-16 | 1 |
| SFK61-20 | 1 1/4 |
| SFK61-24 | 1 1/2 |
| SFK61-32 | 2 |
| SFK61-40 | 2 1/2 |
| SFK61-48 | 3 |

## SFK61M — Code 61 Split Flange Kit (Metric Bolt Set)



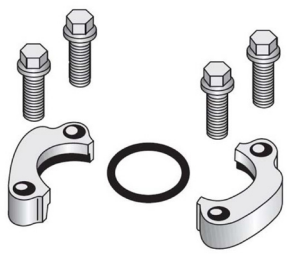
| Part # | Code 61 |
|---|---|
| SFK61-08M | 1/2 |
| SFK61-12M | 3/4 |
| SFK61-16M | 1 |
| SFK61-20M | 1 1/4 |
| SFK61-24M | 1 1/2 |
| SFK61-32M | 2 |
| SFK61-40M | 2 1/2 |
| SFK61-48M | 3 |

## SFK62 — Code 62 Split Flange Kit (Imperial Bolt Set)



| Part # | Code 62 |
|---|---|
| SFK62-08 | 1/2 |
| SFK62-12 | 3/4 |
| SFK62-16 | 1 |
| SFK62-20 | 1 1/4 |
| SFK62-24 | 1 1/2 |
| SFK62-32 | 2 |

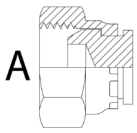
## SFK62M — Code 62 Split Flange Kit (Metric Bolt Set)



| Part # | Code 62 |
|---|---|
| SFK62-08M | 1/2 |
| SFK62-12M | 3/4 |
| SFK62-16M | 1 |
| SFK62-20M | 1 1/4 |
| SFK62-24M | 1 1/2 |
| SFK62-32M | 2 |

# Caps

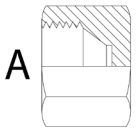
## BPC — BSPP Cap




| Part # | BSPP F |
|---|---|
| BPC-02 | 1/8 |
| BPC-04 | 1/4 |
| BPC-04SS* | 1/4 |
| BPC-06 | 3/8 |
| BPC-08 | 1/2 |
| BPC-10 | 5/8 |
| BPC-12 | 3/4 |
| BPC-16 | 1 |
| BPC-20 | 1 1/4 |
| BPC-24 | 1 1/2 |
| BPC-32 | 2 |

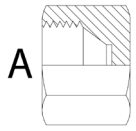
* SS = Stainless Steel

## JC — JIC Cap




| Part # | JIC F |
|---|---|
| JC-03 | 3/8 |
| JC-04 | 7/16 |
| JC-05 | 1/2 |
| JC-06 | 9/16 |
| JC-08 | 3/4 |
| JC-10 | 7/8 |
| JC-12 | 1 1/16 |
| JC-14 | 1 3/16 |
| JC-16 | 1 5/16 |
| JC-20 | 1 5/8 |
| JC-24 | 1 7/8 |
| JC-32 | 2 1/2 |

## JISC — JIS (BSPP) Cap

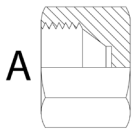



| Part # | JIS (BSPP) F |
|---|---|
| JISC-04 | 1/4 |
| JISC-06 | 3/8 |
| JISC-08 | 1/2 |
| JISC-12 | 3/4 |
| JISC-16 | 1 |

# Adaptors

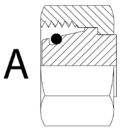


## KC — Komatsu Cap



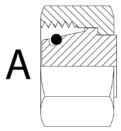

| Part # | JIS (Komatsu) F |
|---|---|
| KC-12M | M12X1.5 |
| KC-14M | M14X1.5 |
| KC-16M | M16X1.5 |
| KC-18M | M18X1.5 |
| KC-20M | M20X1.5 |
| KC-22M | M22X1.5 |
| KC-24M | M24X1.5 |
| KC-30M | M30X1.5 |
| KC-33M | M33X1.5 |
| KC-36M | M36X1.5 |

## MHC — Metric Heavy (S) Cap




| Part # | Metric Heavy F |
|---|---|
| MHC-14M | M14X1.5 |
| MHC-16M | M16X1.5 |
| MHC-18M | M18X1.5 |
| MHC-20M | M20X1.5 |
| MHC-22M | M22X1.5 |
| MHC-24M | M24X1.5 |
| MHC-30M | M30X2 |
| MHC-36M | M36X2 |
| MHC-42M | M42X2 |
| MHC-52M | M52X2 |

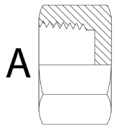
## MLC — Metric Light (L) Cap




| Part # | Metric Light F |
|---|---|
| MLC-12M | M12X1.5 |
| MLC-14M | M14X1.5 |
| MLC-16M | M16X1.5 |
| MLC-18M | M18X1.5 |
| MLC-22M | M22X1.5 |
| MLC-26M | M26X1.5 |
| MLC-30M | M30X2 |
| MLC-36M | M36X2 |
| MLC-45M | M45X2 |
| MLC-52M | M52X2 |

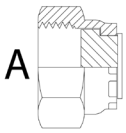

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## NC — NPT Cap



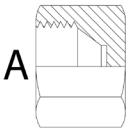

| Part # | NPT F |
|---|---|
| NC-04 | 1/4 |
| NC-06 | 3/8 |
| NC-08 | 1/2 |
| NC-12 | 3/4 |
| NC-16 | 1 |

## ORSC — ORFS Female Cap




| Part # | ORFS F |
|---|---|
| ORSC-04 | 9/16 |
| ORSC-06 | 11/16 |
| ORSC-08 | 13/16 |
| ORSC-10 | 1 |
| ORSC-12 | 1 3/16 |
| ORSC-16 | 1 7/16 |
| ORSC-20 | 1 11/16 |
| ORSC-24 | 2 |

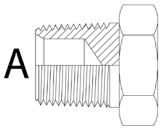
## SC — SAE Cap




| Part # | SAE F |
|---|---|
| SC-04 | 7/16 |
| SC-05 | 1/2 |
| SC-06 | 5/8 |
| SC-08 | 3/4 |
| SC-10 | 7/8 |
| SC-12 | 1 1/16 |

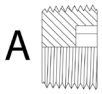
## Plugs

### BP — BSPT Plug



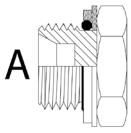

| Part # | BSPT M |
|---|---|
| BP-02 | 1/8 |
| BP-04 | 1/4 |
| BP-06 | 3/8 |
| BP-08 | 1/2 |
| BP-10 | 5/8 |
| BP-12 | 3/4 |
| BP-16 | 1 |
| BP-20 | 1 1/4 |
| BP-24 | 1 1/2 |
| BP-32 | 2 |

### BP-R — BSPT Socket Head Plug (Round)



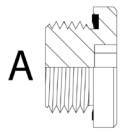

| Part # | BSPT M |
|---|---|
| BP-02R | 1/8 |
| BP-04R | 1/4 |
| BP-06R | 3/8 |
| BP-08R | 1/2 |
| BP-12R | 3/4 |
| BP-16R | 1 |
| BP-20R | 1 1/4 |

### BPP — BSPP Plug



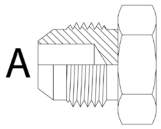

| Part # | BSPP M |
|---|---|
| BPP-02 | 1/8 |
| BPP-04 | 1/4 |
| BPP-06 | 3/8 |
| BPP-08 | 1/2 |
| BPP-10 | 5/8 |
| BPP-12 | 3/4 |
| BPP-16 | 1 |
| BPP-20 | 1 1/4 |
| BPP-24 | 1 1/2 |
| BPP-32 | 2 |

## BPP-R — BSPP C/Sunk Plug Encapsulated Seal



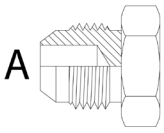

| Part # | BSPP M |
|---|---|
| BPP-02R | 1/8 |
| BPP-04R | 1/4 |
| BPP-06R | 3/8 |
| BPP-08R | 1/2 |
| BPP-12R | 3/4 |
| BPP-16R | 1 |
| BPP-20R | 1 1/4 |
| BPP-24R | 1 1/2 |
| BPP-32R | 2 |

## JISP — JIS(BSPP) Plug




| Part # | JIS(BSPP) M |
|---|---|
| JISP-04 | 1/4 |
| JISP-06 | 3/8 |
| JISP-08 | 1/2 |
| JISP-12 | 3/4 |
| JISP-16 | 1 |

## JP — JIC Plug

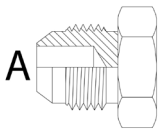



| Part # | JIC M |
|---|---|
| JP-03 | 3/8 |
| JP-04 | 7/16 |
| JP-05 | 1/2 |
| JP-06 | 9/16 |
| JP-08 | 3/4 |
| JP-10 | 7/8 |
| JP-12 | 1 1/16 |
| JP-14 | 1 3/16 |
| JP-16 | 1 5/16 |
| JP-20 | 1 5/8 |
| JP-24 | 1 7/8 |
| JP-32 | 2 1/2 |

# Adaptors

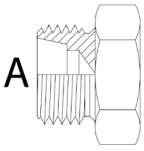


## KP — Komatsu Plug



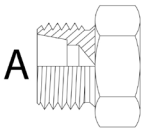

| Part # | JIS (Komatsu) M |
|---|---|
| KP-12M | M12X1.5 |
| KP-14M | M14X1.5 |
| KP-16M | M16X1.5 |
| KP-18M | M18X1.5 |
| KP-20M | M20X1.5 |
| KP-22M | M22X1.5 |
| KP-24M | M24X1.5 |
| KP-30M | M30X1.5 |
| KP-33M | M33X1.5 |
| KP-36M | M36X1.5 |

## MHP — Metric Heavy (S) Plug




| Part # | Metric Heavy M |
|---|---|
| MHP-14M | M14X1.5 |
| MHP-16M | M16X1.5 |
| MHP-18M | M18X1.5 |
| MHP-20M | M20X1.5 |
| MHP-22M | M22X1.5 |
| MHP-24M | M24X1.5 |
| MHP-30M | M30X2 |
| MHP-36M | M36X2 |
| MHP-42M | M42X2 |
| MHP-52M | M52X2 |

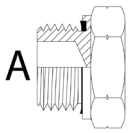
## MLP — Metric Light (L) Plug




| Part # | Metric Light M |
|---|---|
| MLP-12M | M12X1.5 |
| MLP-14M | M14X1.5 |
| MLP-16M | M16X1.5 |
| MLP-18M | M18X1.5 |
| MLP-22M | M22X1.5 |
| MLP-26M | M26X1.5 |
| MLP-30M | M30X2 |
| MLP-36M | M36X2 |
| MLP-45M | M45X2 |
| MLP-52M | M52X2 |

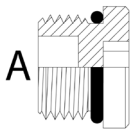

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## MSP — Metric Stud Plug (PORT PLUG)



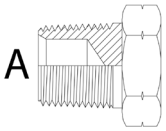

| Part # | Metric Stud M |
|---|---|
| MSP-10X1.0M | M10X1.0 |
| MSP-10x1.5M | M10X1.5 |
| MSP-12X1.25M | M12X1.25 |
| MSP-12M | M12X1.5 |
| MSP-14M | M14X1.5 |
| MSP-16M | M16X1.5 |
| MSP-18M | M18X1.5 |
| MSP-20M | M20X1.5 |
| MSP-22M | M22X1.5 |
| MSP-24M | M24X1.5 |
| MSP-26M | M26X1.5 |
| MSP-27X1.5M | M27X1.5 |
| MSP-27X2.0M | M27X2 |
| MSP-30X1.5M | M30X1.5 |
| MSP-30X2.0M | M30X2 |
| MSP-33X1.5M | M33X1.5 |
| MSP-33X2.0M | M33X2 |
| MSP-38X1.5M | M38X1.5 |
| MSP-38X2.0M | M38X2 |
| MSP-42X2.0M | M42X2 |

## MSP-R — Metric Stud Countersunk Plug(PORT PLUG)




| Part # | Metric Stud M |
|---|---|
| MSP-10MR | M10X1.0 |
| MSP-12MR | M12X1.5 |
| MSP-14MR | M14X1.5 |
| MSP-16MR | M16X1.5 |
| MSP-18MR | M18X1.5 |
| MSP-20MR | M20X1.5 |
| MSP-22MR | M22X1.5 |
| MSP-24MR | M24X1.5 |
| MSP-26MR | M26X1.5 |
| MSP-27X1.5MR | M27X1.5 |
| MSP-27X2.0MR | M27X2 |
| MSP-30X1.5MR | M30X1.5 |
| MSP-30X2.0MR | M30X2 |
| MSP-33X1.5MR | M33X1.5 |
| MSP-33X2.0MR | M33X2 |
| MSP-38X1.5MR | M38X1.5 |
| MSP-38X2.0MR | M38X2 |
| MSP-42X2.0MR | M42X2 |

## NP — NPT Plug



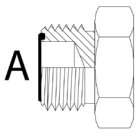

| Part # | NPT M |
|---|---|
| NP-02 | 1/8 |
| NP-04 | 1/4 |
| NP-06 | 3/8 |
| NP-08 | 1/2 |
| NP-12 | 3/4 |
| NP-16 | 1 |
| NP-20 | 1 1/4 |
| NP-24 | 1 1/2 |
| NP-32 | 2 |

## NP-R — NPT Socket Head Plug (Round)



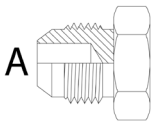

| Part # | NPT M |
|---|---|
| NP-02R | 1/8 |
| NP-04R | 1/4 |
| NP-06R | 3/8 |
| NP-08R | 1/2 |
| NP-12R | 3/4 |
| NP-16R | 1 |

## ORSP — ORFS Male PLUG



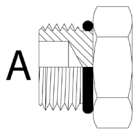

| Part # | ORFS M |
|---|---|
| ORSP-04 | 9/16 |
| ORSP-06 | 11/16 |
| ORSP-08 | 13/16 |
| ORSP-10 | 1 |
| ORSP-12 | 1 3/16 |
| ORSP-16 | 1 7/16 |
| ORSP-20 | 1 11/16 |
| ORSP-24 | 2 |

## SP — SAE Plug



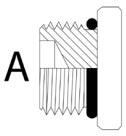

| Part # | SAE M |
|---|---|
| SP-04 | 7/16 |
| SP-05 | 1/2 |
| SP-06 | 5/8 |
| SP-08 | 3/4 |
| SP-10 | 7/8 |
| SP-12 | 1 1/16 |

## UP — UNO Plug




| Part # | UNO M |
|---|---|
| UP-02 | 5/16 |
| UP-03 | 3/8 |
| UP-04 | 7/16 |
| UP-05 | 1/2 |
| UP-06 | 9/16 |
| UP-08 | 3/4 |
| UP-10 | 7/8 |
| UP-12 | 1 1/16 |
| UP-14 | 1 3/16 |
| UP-16 | 1 5/16 |
| UP-20 | 1 5/8 |
| UP-24 | 1 7/8 |
| UP-32 | 2 1/2 |

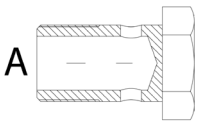
## UP-R — UNOPlug Counter Sunk




| Part # | UNO M |
|---|---|
| UP-02R | 5/16 |
| UP-03R | 3/8 |
| UP-04R | 7/16 |
| UP-05R | 1/2 |
| UP-06R | 9/16 |
| UP-08R | 3/4 |
| UP-10R | 7/8 |
| UP-12R | 1 1/16 |
| UP-16R | 1 5/16 |
| UP-20R | 1 5/8 |
| UP-24R | 1 7/8 |

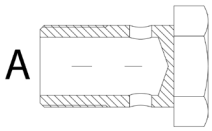
# Banjo Bolt

## BANJOBT-B — BSPP Banjo Bolt




| Part # | BSPP |
|---|---|
| BANJOBT-02 | 1/8 |
| BANJOBT-04 | 1/4 |
| BANJOBT-06 | 3/8 |
| BANJOBT-08 | 1/2 |
| BANJOBT-12 | 3/4 |
| BANJOBT-16 | 1 |

## BANJOBT-M — Metric Banjo Bolt

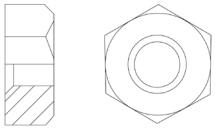



| Part # | Metric |
|---|---|
| BANJOBT-10M | M10X1 |
| BANJOBT-12M | M12X1.5 |
| BANJOBT-14M | M14X1.5 |
| BANJOBT-16M | M16X1.5 |
| BANJOBT-18M | M18X1.5 |
| BANJOBT-20M | M20X1.5 |
| BANJOBT-22M | M22X1.5 |
| BANJOBT-26M | M26X1.5 |
| BANJOBT-30M | M30X2 |

A Hydraulic Hose
B Hose Fittings
C Adaptors
D Quick Release Couplings
E Diagnostics
F Valves
G Grease
H Accessories

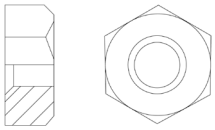
## Bulkhead Nut

**BPBHN** — **BSPP Bulkhead Lock Nut**



| Part # | BSPP |
|---|---|
| BPBHN-04 | 1/4 |
| BPBHN-06 | 3/8 |
| BPBHN-08 | 1/2 |
| BPBHN-12 | 3/4 |
| BPBHN-16 | 1 |
| BPBHN-20 | 1 1/4 |
| BPBHN-24 | 1 1/2 |

**JBHN** — **JIC Bulkhead Lock Nut**



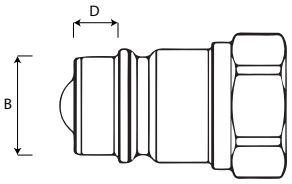
| Part # | JIC |
|---|---|
| JBHN-04 | 7/16 |
| JBHN-06 | 9/16 |
| JBHN-08 | 3/4 |
| JBHN-10 | 7/8 |
| JBHN-12 | 1 1/16 |
| JBHN-16 | 1 5/16 |
| JBHN-20 | 1 5/8 |

# D - Quick Release Couplings

## Contents

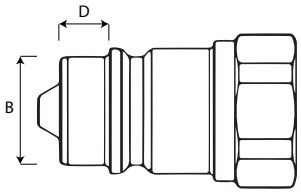

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ISO B. . . . . D9
PBR . . . . . D11
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## Quick Release Dimension Guide



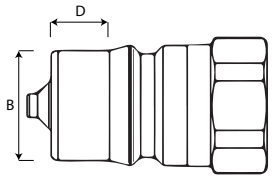

Agricultural ISO 5675

| Body Size | B mm | D mm |
|---|---|---|
| 1/4 | 14.1 | 7.8 |
| 3/8 | 18.9 | 8.7 |
| 1/2 | 20.4 | 8.9 |
| 3/4 | 27.8 | 12.5 |
| 1 | 31.1 | 16 |



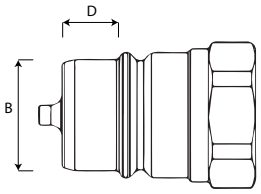

ISO A

| Body Size | B mm | D mm |
|---|---|---|
| 1/4 | 11.7 | 4.5 |
| 3/8 | 17.1 | 8.4 |
| 1/2 | 20.4 | 8.9 |
| 3/4 | 29.0 | 14.9 |
| 1 | 34.2 | 17.0 |
| 1 1/4 | 44.8 | 24.0 |
| 1 1/2 | 54.9 | 29.3 |
| 2 | 65.0 | 34 |



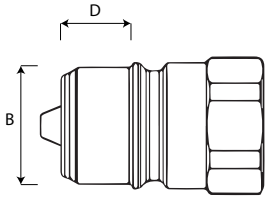

ISO B

| Body Size | B mm | D mm |
|---|---|---|
| 1/4 | 14.1 | 10.2 |
| 3/8 | 18.9 | 11.6 |
| 1/2 | 23.4 | 12.6 |
| 3/4 | 31.3 | 18.1 |
| 1 | 37.7 | 20.6 |




PBR

| Body Size | B mm | D mm |
|---|---|---|
| 1 | 37.8 | 19.3 |

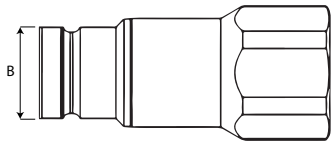



Nordic (Tema Interchange)

| Body Size | B mm | D mm |
|---|---|---|
| 1/4 | 11.8 | 10.3 |
| 3/8 | 19.7 | 13.3 |
| 1/2 | 24.5 | 14.4 |
| 3/4 | 32.5 | 17.2 |
| 1 | 40.7 | 20.7 |

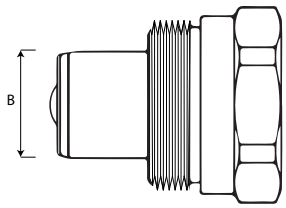
# Quick Release Couplings





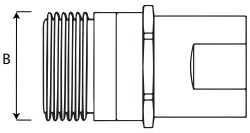

Flat Face ISO 16028

| Body Size | B mm |
|---|---|
| 1/4 | 16.1 |
| 3/8 | 19.7 |
| 1/2 | 24.5 |
| 5/8 | 27.0 |
| 3/4 | 29.8 |
| 1 | 35.9 |



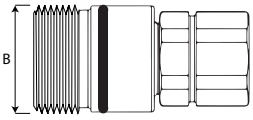

Jacking

| Body Size | B mm |
|---|---|
| 1/4 | 15.7 |
| 3/8 | 19.0 |



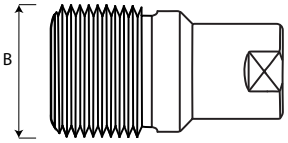

BSB (Wing Nut) (Brass)

| Body Size | B mm |
|---|---|
| 3/4 | 37.7 |
| 1 | 47.3 |
| 1 1/4 | 53.7 |



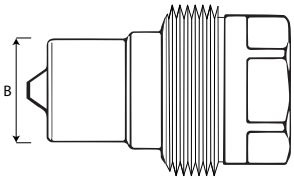

VD Screw Together ISO 14541

| Body Size | B mm |
|---|---|
| 1/2 | |
| 3/4 | 41.7 |
| 1 | 47.7 |
| 1 1/4 | 59.6 |




VOF Screw Together

| Body Size | B mm |
|---|---|
| 3/4 | 44.2 |
| 1 | 57.0 |
| 1 1/4 | 66.4 |
| 1 1/2 | 82.6 |
| 2 | 101.4 |




VV Screw Together ISO 5675

| Body Size | B mm |
|---|---|
| 1/4 | 14.1 |
| 3/8 | 19.9 |
| 1/2 | 20.4 |
| 3/4 | 27.9 |
| 1 | 31.2 |

## Agricultural ISO 5675

### IR-M-CAP
**Cap to suit ISO 5675 Agricultural Male Coupling**



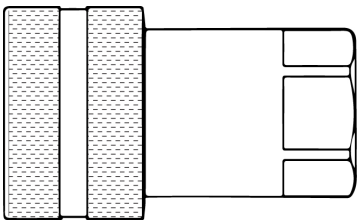
| Part # | Body Size |
|---|---|
| M-IR-14-V-CAP | 1/4 |
| M-IR-38-V-CAP | 3/8 |
| TF-12 | 1/2 |

### IR-F-PLUG
**Plug to suit ISO 5675 Agricultural Female Coupling**



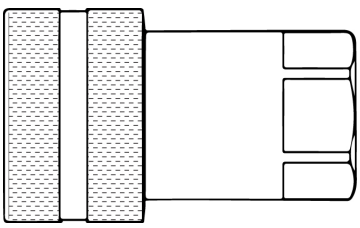
| Part # | Body Size |
|---|---|
| F-IR-14-V-PLUG | 1/4 |
| F-IR-38-V-PLUG | 3/8 |
| TM-12 | 1/2 |

### IR-F-BSP
**ISO 5675 Agricultural Female (Ball Type) Coupling X BSPP Female**



| Part # | Body Size | BSPP F |
|---|---|---|
| F-IR-38-BSP | 3/8 | 3/8 |
| F-IR-12-BSP | 1/2 | 1/2 |
| F-IR-100-BSP | 1 | 1 |

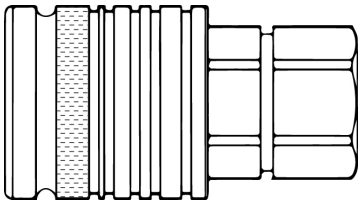
### IR-V-F-BSP
**ISO 5675 Agricultural Female (Poppet Type) Coupling X BSPP Female**



| Part # | Body Size | BSPP F |
|---|---|---|
| F-IR-14-V-BSP | 1/4 | 1/4 |
| F-IR-38-V-BSP | 3/8 | 3/8 |
| F-BIR-12-BSP | 1/2 | 1/2 |
| F-IR-34-VFA-BSP | 3/4 | 3/4 |
| F-IR-100-V-BSP | 1 | 1 |

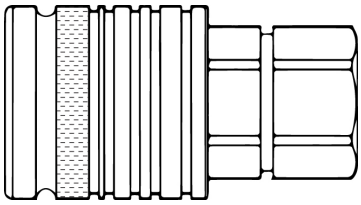
# Quick Release Couplings

## IRS-F-BSP — ISO 5675 Agricultural Female (Ball Type) Coupling Push-Pull X BSPP Female



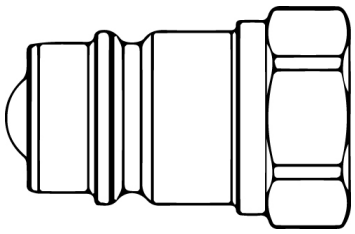
| Part # | Body Size | BSPP F |
|---|---|---|
| F-IRS-12-A-BSP | 1/2 | 1/2 |

## IRS-V-F-BSP — ISO 5675 Agricultural Female (Poppet Type) Coupling Push-Pull X BSPP Female



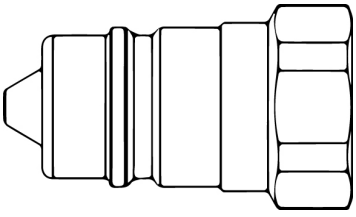
| Part # | Body Size | BSPP F |
|---|---|---|
| F-IRS-12-VA-BSP | 1/2 | 1/2 |

## IR-M-BSP — ISO 5675 Agricultural Male (Ball Type) Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-IR-14-BSP | 1/4 | 1/4 |
| M-IR-38-BSP | 3/8 | 3/8 |
| M-IR-12-BSP | 1/2 | 1/2 |
| M-IR-34-BSP | 3/4 | 3/4 |
| M-IR-100-BSP | 1 | 1 |

## IR-V-M-BSP — ISO 5675 Agricultural Male (Poppet Type) Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-IR-14-V-BSP | 1/4 | 1/4 |
| M-IR-38-V-BSP | 3/8 | 3/8 |
| M-BIR-12-BSP | 1/2 | 1/2 |
| M-IR-34-VFA-BSP | 3/4 | 3/4 |
| M-IR-100-V-BSP | 1 | 1 |

# Quick Release Couplings



## ISO A

### ISOA-F-PLUG — Plug to suit ISO A Female Coupling



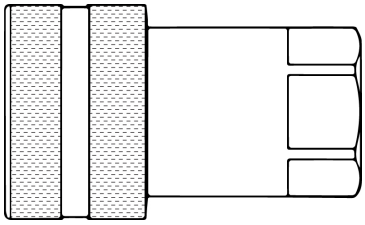
| Part # | Body Size |
|---|---|
| TMB-14 | 1/4 |
| TMB-38 | 3/8 |
| TM-12 | 1/2 |
| TMB-34 | 3/4 |
| TMB-100 | 1 |

### ISOA-M-CAP — Cap to suit ISO A Male Coupling



| Part # | Body Size |
|---|---|
| TFB-14 | 1/4 |
| TFB-38 | 3/8 |
| TF-12 | 1/2 |
| TFB-34 | 3/4 |
| TFB-100 | 1 |

### BIR-F-BSP — ISO A Female (Poppet Type) Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| F-BIR-14-BSP | 1/4 | 1/4 |
| F-BIR-38-BSP | 3/8 | 3/8 |
| F-BIR-12-BSP | 1/2 | 1/2 |
| F-BIR-12-BSPSS* | 1/2 | 1/2 |
| F-BIR-34-BSP | 3/4 | 3/4 |
| F-BIR-100-BSP | 1 | 1 |
| F-BIR-114-BSP | 1 1/4 | 1 1/4 |
| F-BIR-112-BSP | 1 1/2 | 1 1/2 |
| F-BIR-200-BSP | 2 | 2 |

* SS = Stainless Steel

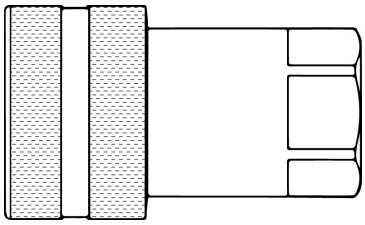


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# Quick Release Couplings

## BIR-F-NPT

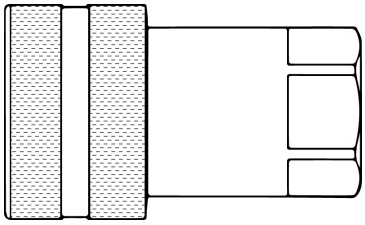
**ISO A Female (Poppet Type) Couping X NPT Female**



| Part # | Body Size | NPT F |
|---|---|---|
| F-BIR-14-NPT | 1/4 | 1/4 |
| F-BIR-38-NPT | 3/8 | 3/8 |
| F-BIR-12-NPT | 1/2 | 1/2 |
| F-BIR-34-NPT | 3/4 | 3/4 |
| F-BIR-100-NPT | 1 | 1 |

## BIR-F-UNO

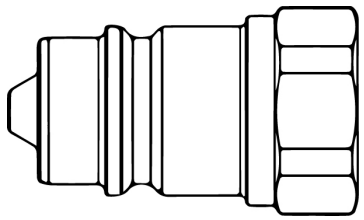
**ISO A Female (Poppet Type) Coupling X UNO Female**



| Part # | Body Size | UNO F |
|---|---|---|
| F-BIR-12-SAE | 1/2 | 3/4 |
| F-BIR-12-58SAE | 1/2 | 7/8 |

## BIR-M-BSP

**ISO A Male (Poppet Type) Nipple X BSPP Female**



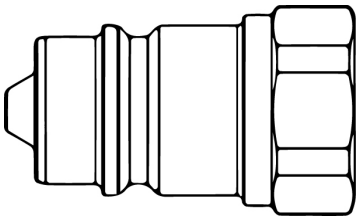
| Part # | Body Size | BSPP F |
|---|---|---|
| M-BIR-14-BSP | 1/4 | 1/4 |
| M-BIR-38-BSP | 3/8 | 3/8 |
| M-BIR-12-BSP | 1/2 | 1/2 |
| M-BIR-12-BSP-SS* | 1/2 | 1/2 |
| M-BIR-34-BSP | 3/4 | 3/4 |
| M-BIR-100-BSP | 1 | 1 |
| M-BIR-114-BSP | 1 1/4 | 1 1/4 |
| M-BIR-112-BSP | 1 1/2 | 1 1/2 |
| M-BIR-200-BSP | 2 | 2 |

*SS = Stainless Steel

# Quick Release Couplings

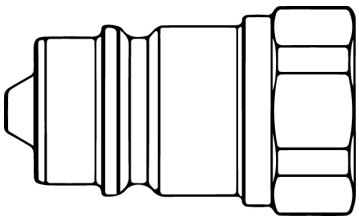


## BIR-M-NPT — ISO A Male (Poppet) Nipple X NPT Female



| Part # | Body Size | NPT F |
|---|---|---|
| M-BIR-14-NPT | 1/4 | 1/4 |
| M-BIR-38-NPT | 3/8 | 3/8 |
| M-BIR-12-NPT | 1/2 | 1/2 |
| M-BIR-34-NPT | 3/4 | 3/4 |
| M-BIR-100-NPT | 1 | 1 |

## BIR-M-SAE — ISO A Male (Poppet) Nipple X UNO Female



| Part # | Body Size | UNO F |
|---|---|---|
| M-BIR-12-SAE | 1/2 | 3/4 |
| M-BIR-12-58-SAE | 1/2 | 5/8 |



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# ISO B

## IRB-F-PLUG — Plug to suit ISO B Female Coupling



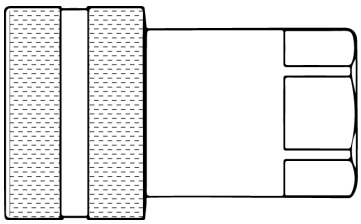
| Part # | Body Size |
|---|---|
| F-IRB-14-PLUG | 1/4 |
| F-IRB-38-PLUG | 3/8 |
| F-IRB-34-PLUG | 3/4 |
| F-IRB-12-PLUG | 1/2 |
| F-IRB-100-PLUG | 1 |

## IRB-M-CAP — Cap to suit ISO B Male Nipple



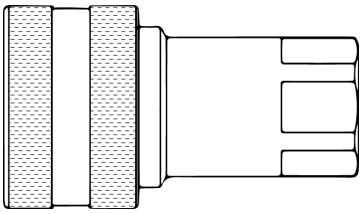
| Part # | Body Size |
|---|---|
| M-IRB-14-CAP | 1/4 |
| M-IRB-38-CAP | 3/8 |
| M-IRB-12-CAP | 1/2 |
| M-IRB-34-CAP | 3/4 |
| M-IRB-100-CAP | 1 |

## IR-BO-V-F-BSP — ISO B Female (Poppet) Coupling X BSPP Female - Brass - Viton Seal



| Part # | Body Size | BSPP F |
|---|---|---|
| F-IR-BO-14V-BSP | 1/4 | 1/4 |
| F-IR-BO-38V-BSP | 3/8 | 3/8 |
| F-IR-BO-12V-BSP | 1/2 | 1/2 |
| F-IR-BO-34V-BSP | 3/4 | 3/4 |
| F-IR-BO-100V-BSP | 1 | 1 |

## IRB-F-BSP — ISO B Female Coupling X BSPP Female

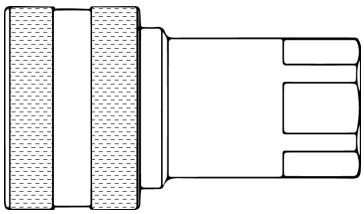


| Part # | Body Size | BSPP F |
|---|---|---|
| F-IRB-14-BSP | 1/4 | 1/4 |
| F-IRB-38-BSP | 3/8 | 3/8 |
| F-IRB-12-BSP | 1/2 | 1/2 |
| F-IRB-34-BSP | 3/4 | 3/4 |
| F-IRB-100-BSP | 1 | 1 |

# Quick Release Couplings

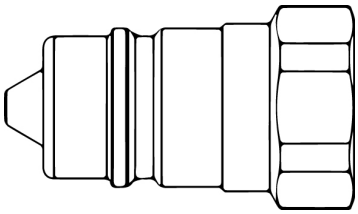


## IRB-F-NPT — ISO B Female Coupling X NPT Female



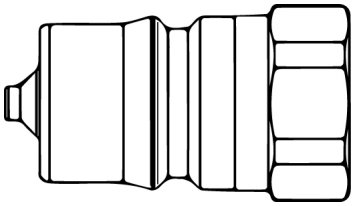
| Part # | Body Size | NPT F |
|---|---|---|
| F-IRB-14-NPT | 1/4 | 1/4 |
| F-IRB-38-NPT | 3/8 | 3/8 |
| F-IRB-12-NPT | 1/2 | 1/2 |
| F-IRB-34-NPT | 3/4 | 3/4 |
| F-IRB-100-NPT | 1 | 1 |

## IR-BO-V-M-BSP — ISO B Male (Poppet Style) Coupling X BSPP Female - Brass - Viton Seal



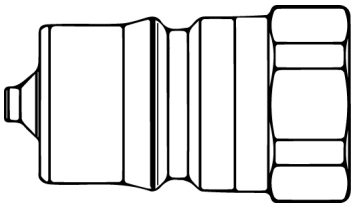
| Part # | Body Size | BSPP F |
|---|---|---|
| M-IR-BO-14V-BSP | 1/4 | 1/4 |
| M-IR-BO-38V-BSP | 3/8 | 3/8 |
| M-IR-BO-12V-BSP | 1/2 | 1/2 |
| M-IR-BO-34V-BSP | 3/4 | 3/4 |
| M-IR-BO-100V-BSP | 1 | 1 |

## IRB-M-BSP — ISO B Male Nipple X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-IRB-14-BSP | 1/4 | 1/4 |
| M-IRB-38-BSP | 3/8 | 3/8 |
| M-IRB-12-BSP | 1/2 | 1/2 |
| M-IRB-34-BSP | 3/4 | 3/4 |
| M-IRB-100-BSP | 1 | 1 |

## IRB-M-NPT — ISO B Male Nipple X NPT Female



| Part # | Body Size | NPT F |
|---|---|---|
| M-IRB-14-NPT | 1/4 | 1/4 |
| M-IRB-38-NPT | 3/8 | 3/8 |
| M-IRB-12-NPT | 1/2 | 1/2 |
| M-IRB-34-NPT | 3/4 | 3/4 |
| M-IRB-100-NPT | 1 | 1 |

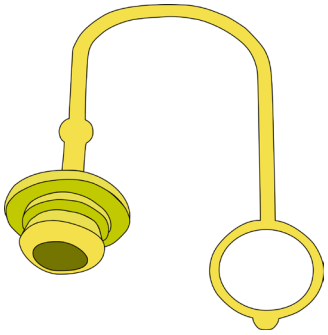


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# PBR

## PBR-F-PLUG

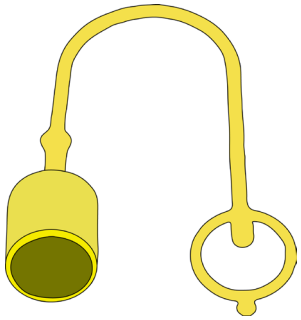
**Plug to suit PBR Female Coupling**



| Part # | Body Size |
|---|---|
| PLUG-TRU-3310-29 | 1 |

## PBR-M-Cap

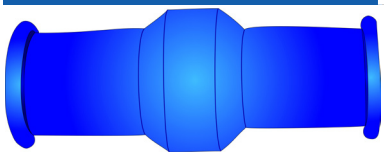
**Cap to suit PBR Male Nipple**



| Part # | Body Size |
|---|---|
| CAP-TRU-3310-22 | 1 |

## PBR-M-Cover

**Protective cover to suit PBR Male Nipple**

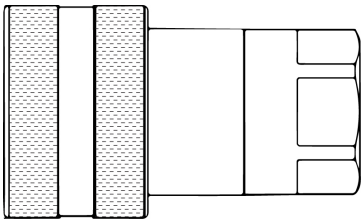


| Part # | Body Size |
|---|---|
| TRU-3310-COVER | 1 |

# Quick Release Couplings

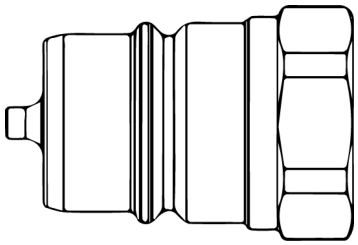


## PBR-F-BSP — PBR Female Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| TRU-3310-29 | 1 | 1 |

## PBR-M-BSP — PBR Male Nipple X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| TRU-3310-22 | 1 | 1 |



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# Nordic (Tema Interchange)

## IRH-F-PLUG — Plug to suit IRH (Tema) Female Coupling



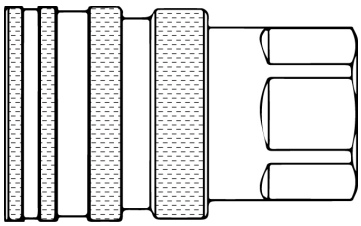
| Part # | Body Size |
|---|---|
| F-IRH-14-PLUG | 1/4 |
| F-IRH-38-PLUG | 3/8 |
| F-IRH-12-PLUG | 1/2 |
| F-IRH-34-PLUG-RED | 3/4 |
| F-IRH-34-PLUGBLACK | 3/4 |
| F-IRH-100-PLUG-RED | 1 |

## IRH-M-CAP — Cap to suit IRH (Tema) Male Plug



| Part # | Body Size |
|---|---|
| M-IRH-14-CAP | 1/4 |
| M-IRH-38-CAP | 3/8 |
| M-IRH-12-CAP | 1/2 |
| M-IRH-34-CAPBLACK | 3/4 |
| M-IRH-34-CAP-RED | 3/4 |
| M-IRH-100-CAP-RED | 1 |

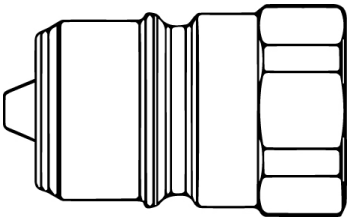
## IRH-F-BSP — IRH (Tema) Female Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| F-IRH-14-BSP | 1/4 | 1/4 |
| F-IRH-38-BSP | 3/8 | 3/8 |
| F-IRH-12-BSP | 1/2 | 1/2 |
| F-IRH-12-BSP-PE* | 1/2 | 1/2 |
| F-IRH-34-BSP | 3/4 | 3/4 |
| F-IRH-34-BSP-PE* | 3/4 | 3/4 |
| F-IRH-100-BSP | 1 | 1 |
| F-IRH-100-BSP-PE* | 1 | 1 |

*PE * Pressure Eliminating (connect under pressure).

## IRH-M-BSP — IRH (Tema) Male Plug X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-IRH-14-BSP | 1/4 | 1/4 |
| M-IRH-38-BSP | 3/8 | 3/8 |
| M-IRH-12-BSP | 1/2 | 1/2 |
| M-IRH-12-BSP-PE* | 1/2 | 1/2 |
| M-IRH-34-BSP | 3/4 | 3/4 |
| M-IRH-34-BSP-PE* | 3/4 | 3/4 |
| M-IRH-100-BSP | 1 | 1 |
| M-IRH-100-BSP-PE* | 1 | 1 |

*PE * Pressure Eliminating (connect under pressure).

# Flat Face ISO 16028

## FIRG-F-Cap — Cap to suit Flat Face Female Coupling



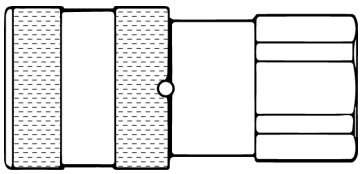
| Part # | Body Size |
|---|---|
| CAP-F-FIRG-14-RED | 1/4 |
| CAP-F-FIRG-12-RED | 3/8 |
| CAP-F-FIRG-12-A-RED | 1/2 |
| CAP-F-FIRG-34-B | 5/8 |
| CAP-F-FIRG-100-RED | 3/4 |
| CAP-F-FIRG-114-RED | 1 |

## FIRG-M-Cap — Cap to suit Flat Face Male Coupling



| Part # | Body Size |
|---|---|
| CAP-M-FIRG-14-RED | 1/4 |
| CAP-M-FIRG-12-RED | 3/8 |
| CAP-M-FIRG-12-A-RED | 1/2 |
| CAP-M-FIRG-34-B | 5/8 |
| CAP-M-FIRG-100-RED | 3/4 |
| CAP-M-FIRG-114-RED | 1 |

## FIRG-F-BSP — Flat Face Female Coupling X BSPP Female

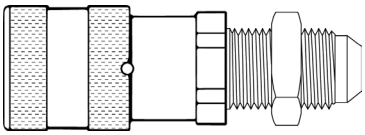


| Part # | Body Size | BSPP F |
|---|---|---|
| F-FIRG-14-BSP | 1/4 | 1/4 |
| F-FIRG-38-BSP | 3/8 | 3/8 |
| F-FIRG-12-BSP | 3/8 | 1/2 |
| F-FIRG-12-A-BSP | 1/2 | 1/2 |
| F-FIRG-34-BSP | 1/2 | 3/4 |
| F-FIRG-34-B-BSP | 5/8 | 3/4 |
| F-FIRG-34-A-BSP | 3/4 | 3/4 |
| F-FIRG-100-BSP | 3/4 | 1 |
| F-A-21-1IN-BSP | 1 | 1 |
| F-FIRG-114-BSP | 1 | 1 1/4 |
| F-FIRG-112-BSP | 1-1/2 | 1 1/2 |
| F-FIRG-200-BSP | 2 | 2 |

# Quick Release Couplings

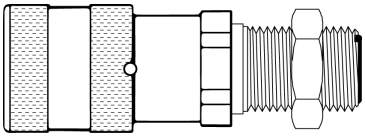


## FIRG-F-JIC — Flat Face Female Coupling X JIC Male Bulkhead



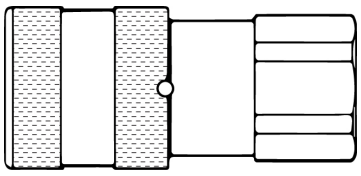
| Part # | Body Size | JIC M |
|---|---|---|
| F-A-13D-5/8-JIC-BH | 1/2 | 7/8 |
| F-A-13-3/4-JIC-BH | 1/2 | 1 1/16 |

## FIRG-F-ORFS — Flat Face Female Coupling X ORFS Male Bulkhead



| Part # | Body Size | ORFS M |
|---|---|---|
| F-A-13D-5/8-ORFS-BH | 1/2 | 1 |
| F-A-13D-1-ORFS-BH | 1/2 | 1 7/16 |

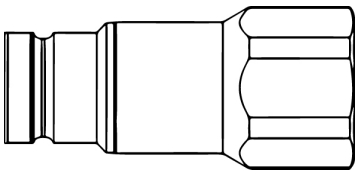
## FIRG-F-SAE — Flat Face Female Coupling X UNO Female



| Part # | Body Size | UNO F |
|---|---|---|
| F-FIRG-14-3/8-SAE | 1/4 | 9/16 |
| F-FIRG-38-1/2-SAE | 3/8 | 3/4 |
| F-FIRG-34-SAE | 1/2 | 1 1/16 |
| F-FIRG-34-B-SAE | 5/8 | 1 1/16 |
| F-FIRG-34-A-SAE | 3/4 | 1 1/16 |
| F-FIRG-100-SAE | 3/4 | 1 5/16 |


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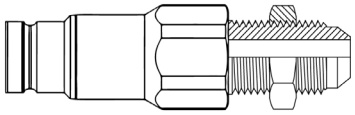
## FIRG-M-BSP — Flat Face Female Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-FIRG-14-BSP | 1/4 | 1/4 |
| M-FIRG-38-BSP | 3/8 | 3/8 |
| M-FIRG-12-BSP | 3/8 | 1/2 |
| M-FIRG-12-A-BSP | 1/2 | 1/2 |
| M-FIRG-12-A-BSP-PE* | 1/2 | 1/2 |
| M-FIRG-34-BSP | 1/2 | 3/4 |
| M-FIRG-34-B-BSP | 5/8 | 3/4 |
| M-FIRG-34-B-BSP-PE* | 5/8 | 3/4 |
| M-FIRG-34-A-BSP | 3/4 | 3/4 |
| M-FIRG-100-BSP-PE* | 3/4 | 1 |
| M-FIRG-100-BSP | 3/4 | 1 |
| M-A-21-1IN-BSP | 1 | 1 |
| M-FIRG-114-BSP | 1 | 1 1/4 |
| M-FIRG-112-BSP | 1 1/2 | 1 1/2 |
| M-FIRG-200-BSP | 2 | 2 |

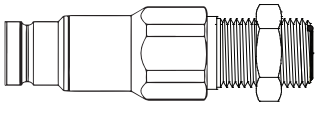
* PE = Pressure Eliminating

## FIRG-M-JIC — Flat Face Male X JIC Male Bulkhead



| Part # | Body Size | JIC BH |
|---|---|---|
| M-A-13-5/8-JIC-BH | 1/2 | 7/8 |
| M-A-13-3/4-JIC-BH | 1/2 | 1 1/16 |

## FIRG-M-ORFS — Flat Face Female Coupling X ORFS Male Bulkhead

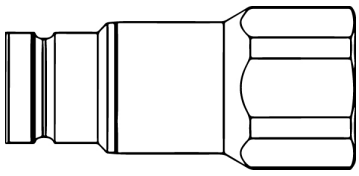


| Part # | Body Size | ORFS M |
|---|---|---|
| M-A-13-58-ORFS-BH | 1/2 | 1 |
| M-A-13-1-ORFS-BH | 1/2 | 1 7/16 |

# Quick Release Couplings



## FIRG-M-SAE — Flat Face Male Coupling X UNO Female



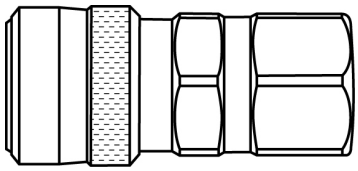
| Part # | Body Size | UNO F |
|---|---|---|
| M-FIRG-14-3/8-SAE | 1/4 | 9/16 |
| M-FIRG-38-1/2-SAE | 3/8 | 3/4 |
| M-FIRG-12-A-58-SAE | 1/2 | 7/8 |
| M-FIRG-34-SAE | 1/2 | 1 1/16 |
| M-FIRG-34-B-SAE | 5/8 | 1 1/16 |
| M-FIRG-34-A-SAE | 3/4 | 1 1/16 |
| M-FIRG-100-SAE | 3/4 | 1 5/16 |


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# UHP (Ultra High Pressure)

## UHP116-F-NPT

**UHP 116 Series Female Coupling X NPT Female 1500BAR**

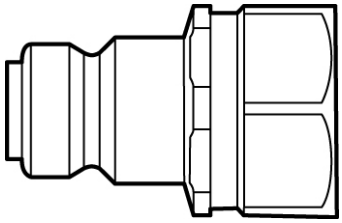


| Part # | Body Size | NPT F |
|---|---|---|
| 10-116-1402* | 1/4 | 1/4 |
| 10-116-1419 | 1/4 | 1/4 |

*Safety Lock

## UHP116-M-NPT

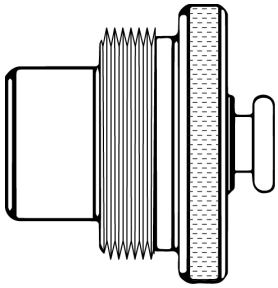
**UHP 116 Series Male Coupling X NPT Female 1500BAR**



| Part # | Body Size | NPT F |
|---|---|---|
| 10-116-6402 | 1/4 | 1/4 |

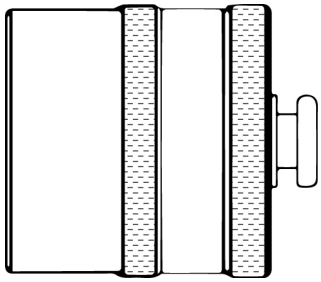
## Jacking

### HPA-F-PLUG — Plug to suits 10,000 PSI Jacking Female Coupling - Aluminium with chain



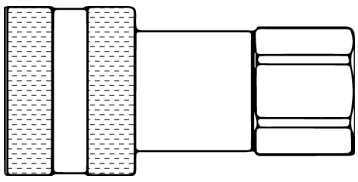
| Part # | Body Size |
|---|---|
| F-HPA-14-NPT-Plug | 1/4 |
| F-HPA-38-NPT-Plug | 3/8 |

### HPA-M-CAP — Cap to Suit 10,000 PSI Jacking Female Coupling - Aluminium with chain



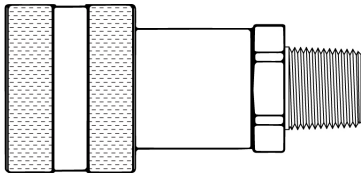
| Part # | Body Size |
|---|---|
| M-HPA-14-NPT-Cap | 1/4 |
| M-HPA-38-NPT-Cap | 3/8 |

### HPA-F-NPTF — 10,000 PSI Jacking Female Coupling X NPT Female



| Part # | Body Size | NPT F |
|---|---|---|
| F-HPA-14-NPT-F | 1/4 | 1/4 |
| F-HPA-38-NPT-F | 3/8 | 3/8 |

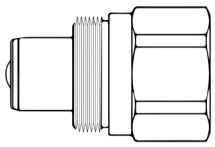
### HPA-F-NPTM — 10,000 PSI Jacking Female Coupling X NPT Male



| Part # | Body Size | NPT M |
|---|---|---|
| F-HPA-18-NPT | 1/8 | 1/8 |
| F-HPA-14-NPT | 1/4 | 1/4 |
| F-HPA-38-NPT | 3/8 | 3/8 |

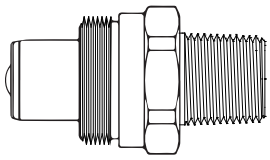

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## HPA-M-NPTF — 10,000 PSI Jacking Male Nipple X NPT Female



| Part # | Body Size | NPT F |
|---|---|---|
| M-HPA-14-NPT | 1/4 | 1/4 |
| M-HPA-38-NPT | 3/8 | 3/8 |

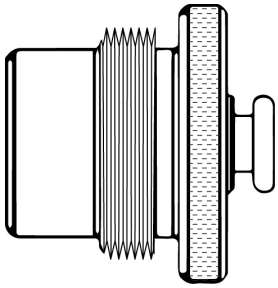
## HPA-M-NPTM — 10,000 PSI Jacking Male Nipple X NPT Male



| Part # | Body Size | NPT M |
|---|---|---|
| M-HPA-18-NPT-M | 1/8 | 1/8 |
| M-HPA-14-NPT-M | 1/4 | 3/8 |

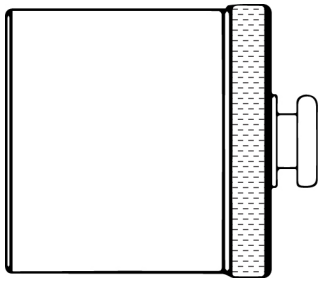
## BSB (Wing Nut) (Brass)

### BSB-F-PLUG
**Plug to suit BSB Brass Wing Nut Female Coupling With Chain**



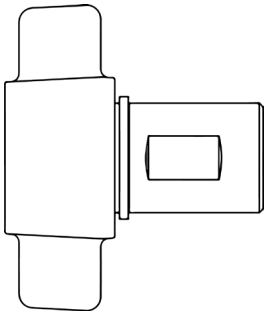
| Part # | Body Size |
|---|---|
| PLUG-BSB-34 | 3/4 |
| PLUG-BSB-100 | 1 |
| PLUG-BSB-114 | 1 1/4 |

### BSB-M-CAP
**Cap to suit BSB Brass Wing Nut Male Nipple With Chain**



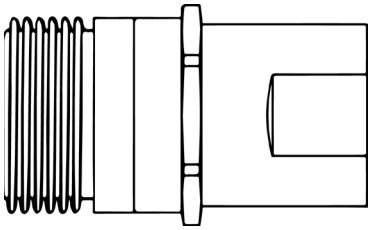
| Part # | Body Size |
|---|---|
| CAP-BSB-34 | 3/4 |
| CAP-BSB-100 | 1 |
| CAP-BSB-114 | 1 1/4 |

### BSB-F-NPT
**BSB Brass Wing Nut Female Coupling X NPT Female**



| Part # | Body Size | NPT F |
|---|---|---|
| F-BSB-34-NPT | 3/4 | 3/4 |
| F-BSB-100-NPT | 1 | 1 |
| F-BSB-114-NPT | 1 1/4 | 1 1/4 |

### BSB-M-NPT
**BSB Brass Wing Nut Male Nipple X NPT Female**



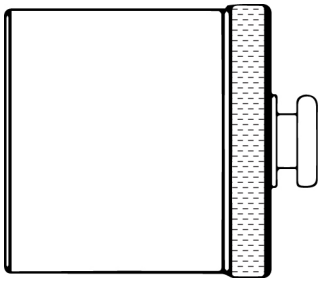
| Part # | Body Size | NPT F |
|---|---|---|
| M-BSB-34-NPT | 3/4 | 3/4 |
| M-BSB-100-NPT | 1 | 1 |
| M-BSB-114-NPT | 1 1/4 | 1 1/4 |


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# VD Screw Together ISO 14541

## VD-F-CAP

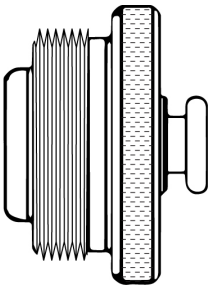
**Cap to suit ISO 14541 VD Female Screw Coupling - Aluminium**



| Part # | Body Size |
|---|---|
| F-VD-12-CAP | 1/2 |
| F-VD-34-CAP | 3/4 |
| F-VD-100-CAP | 1 |
| F-VD-114-CAP | 1 1/4 |

## VD-M-PLUG

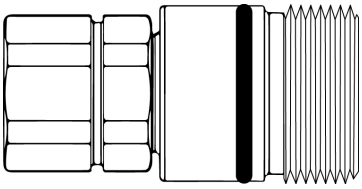
**Plug to suit ISO 14541 VD Male Screw Nipple - Aluminium**



| Part # | Body Size |
|---|---|
| M-VD-12-PLUG | 1/2 |
| M-VD-34-PLUG | 3/4 |
| M-VD-100-PLUG | 1 |
| M-VD-114-PLUG | 1 1/4 |

## VD-F-BSP

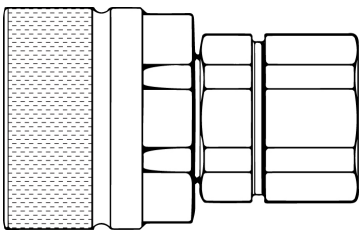
**ISO 14541 VD Female Screw Coupling X BSPP Female**



| Part # | Body Size | BSPP F |
|---|---|---|
| F-VD-12-BSP | 1/2 | 1/2 |
| F-VD-34-BSP | 3/4 | 3/4 |
| F-VD-100-BSP | 1 | 1 |
| F-VD-114-BSP | 1 1/4 | 1 1/4 |

## VD-M-BSP

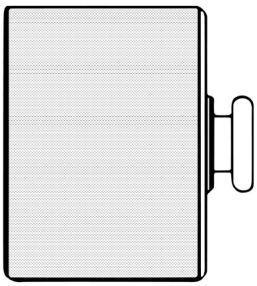
**ISO 14541 VD Male Screw Nipple X BSPP Female**



| Part # | Body Size | BSPP F |
|---|---|---|
| M-VD-12-BSP | 1/2 | 1/2 |
| M-VD-34-BSP | 3/4 | 3/4 |
| M-VD-100-BSP | 1 | 1 |
| M-VD-114-BSP | 1 1/4 | 1 1/4 |

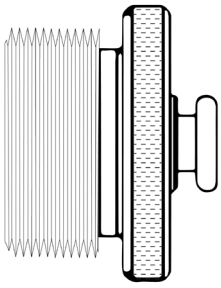
## VOF Screw Together

### VOF-F-CAP — Cap to suit VOF Female Screw Coupling - Aluminium



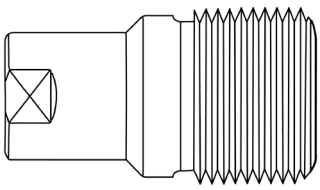
| Part # | Body Size |
|---|---|
| CAP-F-VOF-34-AL | 3/4 |
| CAP-F-VOF-100-AL | 1 |
| CAP-F-VOF-114-AL | 1 1/4 |
| CAP-F-VOF-112-AL | 1 1/2 |
| CAP-F-VOF-200-AL | 2 |

### VOF-M-PLUG — Plug to suit Male Nipple W/- Screw Sleeve (Aluminium)



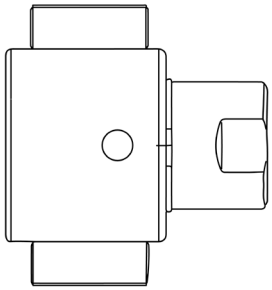
| Part # | Body Size |
|---|---|
| PLUG-M-VOF-34-AL | 3/4 |
| PLUG-M-VOF-100-AL | 1 |
| PLUG-M-VOF-114-AL | 1 1/4 |
| PLUG-M-VOF-112-AL | 1 1/2 |
| PLUG-M-VOF-200-AL | 2 |

### VOF-F-BSP — VOF Coupling Body X NPT Female



| Part # | Body Size | NPT F |
|---|---|---|
| F-VOF-34-34-NPT | 3/4 | 3/4 |
| F-VOF-100-100-NPT | 1 | 1 |
| F-VOF-114-114-NPT | 1 1/4 | 1 1/4 |
| F-VOF-112-112-NPT | 1 1/2 | 1 1/2 |
| F-VOF-200-200-NPT | 2 | 2 |

### VOF-M-BSP — VOF Coupling Nipple W/- Screw Sleeve X NPT Female

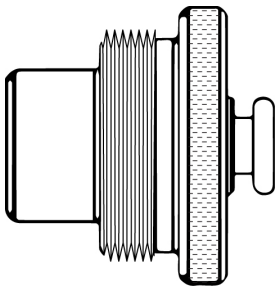


| Part # | Body Size | NPT F |
|---|---|---|
| M-VOF-34-34-NPT | 3/4 | 3/4 |
| M-VOF-100-100-NPT | 1 | 1 |
| M-VOF-114-114-NPT | 1 1/4 | 1 1/4 |
| M-VOF-112-112-NPT | 1 1/2 | 1 1/2 |
| M-VOF-200-200-NPT | 2 | 2 |


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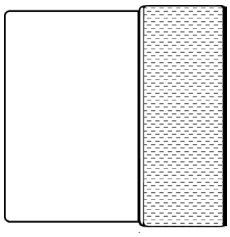
# VV Screw Together ISO 5675

## VV-F-PLUG — Plug to suit VV Screw Together Female Coupling - Aluminium



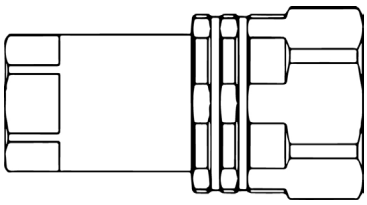
| Part # | Body Size |
|---|---|
| F-VV-14-PLUG-AL | 1/4 |
| F-VV-38-PLUG-AL | 3/8 |
| F-VV-12-PLUG-AL | 1/2 |
| F-VV-34-PLUG-AL | 3/4 |
| F-VV-100-PLUG-AL | 1 |

## VV-M-CAP — Cap to suit VV Screw Together Male Nipple - Aluminium



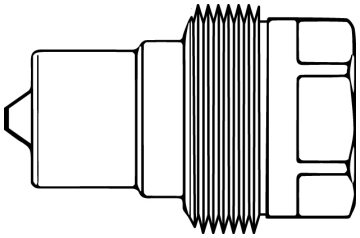
| Part # | Body Size |
|---|---|
| M-VV-14-CAP-AL | 1/4 |
| M-VV-38-CAP-AL | 3/8 |
| M-VV-12-CAP-AL | 1/2 |
| M-VV-34-CAP-AL | 3/4 |
| M-VV-100-CAP-AL | 1 |

## VV-F-BSP — VV Screw Together Female Coupling X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| F-VV-14-BSP | 1/4 | 1/4 |
| F-VV-38-BSP | 3/8 | 3/8 |
| F-VV-12-BSP | 1/2 | 1/2 |
| F-VV-34-BSP | 3/4 | 3/4 |
| F-VV-100-BSP | 1 | 1 |

## VV-M-BSP — VV Screw Together Male Nipple X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| M-VV-14-BSP | 1/4 | 1/4 |
| M-VV-38-BSP | 3/8 | 3/8 |
| M-VV-12-BSP | 1/2 | 1/2 |
| M-VV-34-BSP | 3/4 | 3/4 |
| M-VV-100-BSP | 1 | 1 |

## Rock Breaker Couplings

### TLX-F-CAP — TLX DUST PLUG TO Suit Female COUPLING



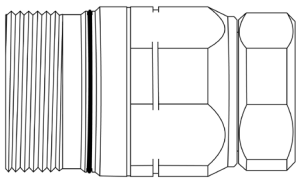
| Part # | Body Size |
|---|---|
| 10-507-1000 | 1/2 |
| 10-607-1000 | 3/4 |
| 10-707-1000 | 1 |
| 10-807-1000 | 1 1/4 |
| 10-907-1000 | 1 1/2 |

### TLX-M-PLUG — TLX DUST CAP TO Suit Male NIPPLE



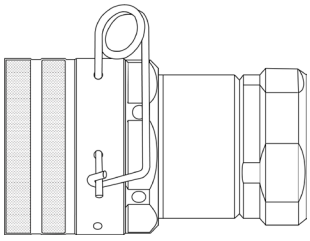
| Part # | Body Size |
|---|---|
| 10-507-1050 | 1/2 |
| 10-607-1050 | 3/4 |
| 10-707-1050 | 1 |
| 10-807-1050 | 1 1/4 |
| 10-907-1050 | 1 1/2 |

### TLX-F-BSP — TLX COUPLING X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| 10-507-1205 | 1/2 | 1/2 |
| 10-607-1301 | 3/4 | 3/4 |
| 10-707-1203 | 1 | 1 |
| 10-807-1204 | 1 1/4 | 1 1/4 |
| 10-907-1205 | 1 1/2 | 1 1/2 |

### TLX-M-BSP — TLX NIPPLE X BSPP Female



| Part # | Body Size | BSPP F |
|---|---|---|
| 10-507-6205 | 1/2 | 1/2 |
| 10-607-6301 | 3/4 | 3/4 |
| 10-707-6203 | 1 | 1 |
| 10-807-6204 | 1 1/4 | 1 1/4 |
| 10-907-6205 | 1 1/2 | 1 1/2 |

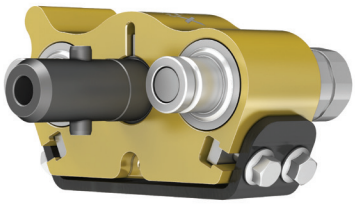
# Multi-X Couplings

## MULTIX-DUO-F — MULTI-X DUO Female Plate



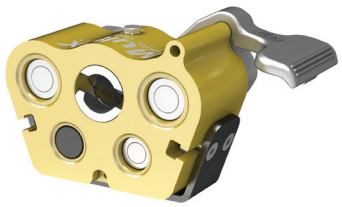
| Part # | Body Size | Connection |
|---|---|---|
| 10-932-2100 | DUO 10 | 1/2 WEO |
| 10-932-2200 | DUO 10 | 3/8 BSPP FEMALE |
| 10-932-5102 | DUO 19 | 3/4 WEO |
| 10-932-7000 | DUO 25.4 | 1 BSPP FEMALE |
| 10-932-2101 | DUO 12.5 | 1/2 WEO |
| 10-932-2201 | DUO 12.5 | 1/2 BSPP FEMALE |
| 10-932-6100 | DUO 12.5/19 | 1/2 + 3/4 WEO |
| 10-932-5202 | DUO 19 | 3/4 BSPP FEMALE |
| 10-932-7000 | DUO 25 | 1 BSPP FEMALE |

## MULTIX-DUO-M — MULTI-X DUO Male Plate



| Part # | Body Size | Connection |
|---|---|---|
| 10-932-2150 | DUO 10 | 3/8 WEO |
| 10-932-2250 | DUO 10 | 3/8 BSPP FEMALE |
| 10-932-2151 | DUO 12.5 | 1/2 WEO |
| 10-932-2251 | DUO 12.5 | 1/2 BSPP |
| 10-932-6150 | DUO 12.5/19 | 1/2 + 3/4 WEO |
| 10-932-5152 | DUO 19 | 3/4 WEO |
| 10-932-5252 | DUO 19 | 3/4 BSPP |
| 10-932-7050 | DUO 25 | 1 BSPP FEMALE |
| 10-932-7000 | DUO 25 | 1 BSPP FEMALE |

## MULTIX-TRIO-F — MULTI-X TRIO Female Plate

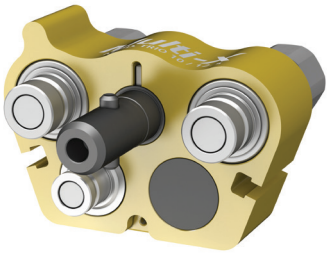


| Part # | Body Size | Connection |
|---|---|---|
| 10-932-4104 | TRIO 12.5/10 | 1/2 WEO |
| 10-932-4203 | TRIO 12.5/lube | 1/2 BSPP FEMALE + LUBE |
| 10-932-4204 | TRIO 12.5/10 | 3/8 BSPP FEMALE |
| 10-932-5204 | TRIO 19 | 3/4 BSPP FEMALE |

# Quick Release Couplings



## MULTIX-TRIO-M — MULTI-X TRIO Male Plate



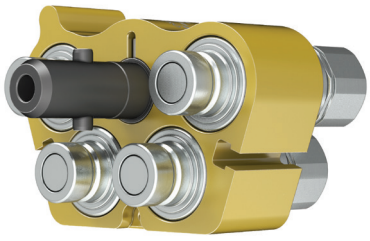
| Part # | Body Size | Connection |
|---|---|---|
| 10-932-4253 | TRIO 12.5/10 | 1/2 WEO |
| 10-932-4154 | TRIO 12.5/lube | 1/2 BSPP FEMALE + LUBE |
| 10-932-4254 | TRIO 12.5/10 | 3/8 BSPP FEMALE |
| 10-932-5254 | TRIO 19 | 3/4 BSPP FEMALE |

## MULTIX-QUATTRO-F — MULTI-X QUATTRO Female Plate



| Part # | Body Size | Connection |
|---|---|---|
| 10-932-3100 | QUATTRO 10 | 1/2 WEO |
| 10-932-3200 | QUATTRO 10 | 3/8 BSPP FEMALE |
| 10-932-4100 | QUATTRO 10/12.5 | 1/2 WEO |
| 10-932-4200 | QUATTRO 10/12.5 | 3/8 + 1/2 BSPP FEMALE |
| 10-932-4101 | QUATTRO 12.5 | 1/2 WEO |
| 10-932-4201 | QUATTRO 12.5 | 1/2 BSPP FEMALE |
| 10-932-5100 | QUATTRO 12.5/19 | WEO |
| 10-932-5200 | QUATTRO 12.5/19 | 1/2 + 3/4 BSPP FEMALE |

## MULTIX-QUATTRO-M — MULTI-X QUATTRO Male Plate

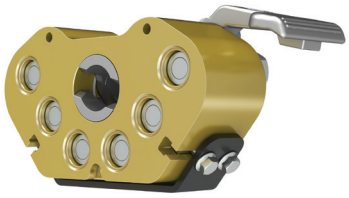


| Part # | Body Size | Connection |
|---|---|---|
| 10-932-3150 | QUATTRO 10 | 1/2 WEO |
| 10-932-3250 | QUATTRO 10 | 3/8 BSPP FEMALE |
| 10-932-4150 | QUATTRO 10/12.5 | 1/2 WEO |
| 10-932-4250 | QUATTRO 10/12.5 | 3/8 + 1/2 BSPP FEMALE |
| 10-932-4151 | QUATTRO 12.5 | 1/2 WEO |
| 10-932-4251 | QUATTRO 12.5 | 1/2 BSPP FEMALE |
| 10-932-5150 | QUATTRO 12.5/19 | WEO |
| 10-932-5250 | QUATTRO 12.5/19 | 1/2 + 3/4 BSPP FEMALE |



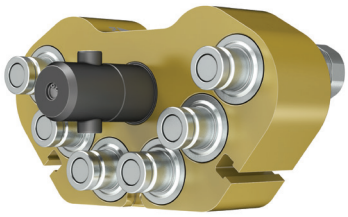
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## MULTIX-HEXA-F — MULTI-X HEXA Female Plate



| Part # | Body Size | Connection |
|---|---|---|
| 10-932-5106 | HEXA 10 | 1/2 WEO |
| 10-932-5206 | HEXA 10 | 3/8 BSPP FEMALE |

## MULTIX-HEXA-M — MULTI-X HEXA Male Plate



| Part # | Body Size | Connection |
|---|---|---|
| 10-932-5156 | HEXA 10 | 1/2 WEO |
| 10-932-5256 | HEXA 10 | 3/8 BSPP FEMALE |

**Accessories also available including Mounting Plates, Electrical Connectors, Plugs, Caps, and More.**
**WEO Adaptors also available (Page B106)**

TRUFLOW
HYDRAULIC HOSE AND FITTINGS

# Quick Release Couplings






(08) 9451 2204

# E - Diagnostics

## Contents

CAT Test . . . . . E2
Komatsu Test . . . . . E3
Test Point . . . . . E5
Test Hose and Fittings . . . . . E8
In Line Test Ports . . . . . E11
Gauge Adaptors . . . . . E13
Gauges . . . . . E14

## CAT Test

### CAT-F-NTPF — CAT Test Point Female Coupling X NPT Female



| Part # | Body | NPT F |
|---|---|---|
| CAT-F14-F14NPT | CAT Test | 1/4 |

### CAT-M-NPTF — CAT Test Point Male Nipple X NPT Male



| Part # | Body | NPT F |
|---|---|---|
| CAT-M14-F14NPT | CAT Test | 1/4 |

### CAT-M-NPTM — CAT Test Point Male Nipple X NPT Male



| Part # | Body | NPT M |
|---|---|---|
| CAT-M14-M14NPT | CAT Test | 1/4 |
| CAT-M14-M38NPT | CAT Test | 3/8 |

### CAT-M-SAEM — CAT Test Point Male Nipple X UNO Male



| Part # | Body | UNO M |
|---|---|---|
| CAT-M14-M14SAE | CAT Test | 7/16 |
| CAT-M14-M38SAE | CAT Test | 9/16 |

# Komatsu Test

## KOMATSU-F-BSPF — Komatsu Test Female Coupling X BSPP Female



| Part # | Body | BSPP F |
|---|---|---|
| 10-358-0202 | KOM | 1/4 |

## KOMATSU-F-BSPF-90 — Komatsu Test Female Coupling X BSPP Female 90 Degree



| Part # | Body | BSPP F |
|---|---|---|
| 10-358-0232 | KOM | 1/4 |

## KOMATSU-F-NPTF — Komatsu Test Female Coupling X NPT Female



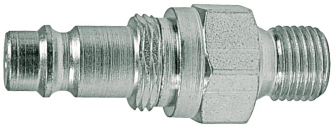
| Part # | Body | NPT F |
|---|---|---|
| 10-358-0402 | KOM | 1/4 |

## KOMATSU-F-NPTF-90 — Komatsu Test Female Coupling X NPT Female 90 Degree



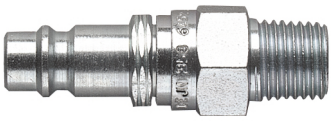
| Part # | Body | NPT F |
|---|---|---|
| 10-358-0432 | KOM | 1/4 |

## KOMATSU-M-BSPPM — Komatsu Test Male Nipple X BSPP Male



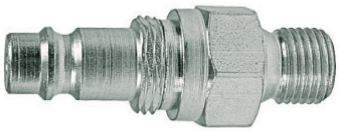
| Part # | Body | BSPP M |
|---|---|---|
| 10-358-6251 | KOM | 1/8 |
| 10-358-6282 | KOM | 1/4 |
| 10-358-6254 | KOM | 3/8 |

## KOMATSU-M-BSPTM — Komatsu Test Male Nipple X BSPT Male



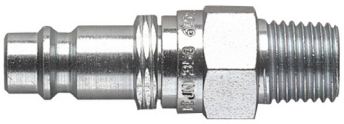
| Part # | Body | BSPT M |
|---|---|---|
| 10-358-6151 | KOM | 1/8 |
| 10-358-6152 | KOM | 1/4 |
| 10-358-6154 | KOM | 3/8 |

## KOMATSU-M-METM — Komatsu Test Male Nipple X Metric Stud Male



| Part # | Body | Metric M |
|---|---|---|
| 10-358-6551 | KOM | 10X1.25 |
| 10-358-6552 | KOM | 12X1.5 |
| 10-358-6554 | KOM | 14X1.5 |

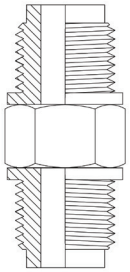
## KOMATSU-M-NPTM — Komatsu Test Male Nipple X NPT Male



| Part # | Body | NPT M |
|---|---|---|
| 10-358-6451 | KOM | 1/8 |
| 10-358-6452 | KOM | 1/4 |

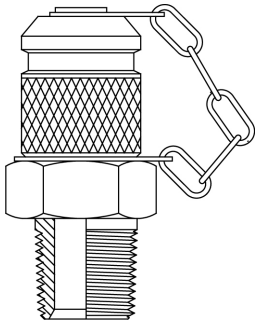
# Test Point

## TP1M — Test Male Nipple X Test Male



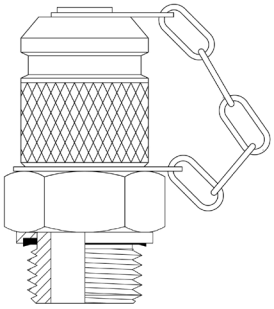
| Part # | Body | Body |
|---|---|---|
| TP1M-20M-20M | TEST 20 (M16X2) | TEST 20 (M16X2) |

## TPB1M — Test 20 Male Nipple X BSPT Male



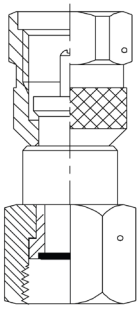
| Part # | Body | BSPT M |
|---|---|---|
| TPB1M-20M-02 | TEST 20 (M16X2) | 1/8 |
| TPB1M-20M-04 | TEST 20 (M16X2) | 1/4 |
| TPB1M-20M-06 | TEST 20 (M16X2) | 3/8 |

## TPBP1M — Test 20 Male Nipple X BSPP Male



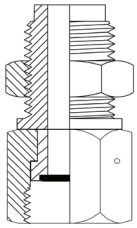
| Part # | Body | BSPP M |
|---|---|---|
| TPBP1M-20M-02 | TEST 20 (M16X2) | 1/8 |
| TPBP1M-20M-04 | TEST 20 (M16X2) | 1/4 |
| TPBP1M-20M-06 | TEST 20 (M16X2) | 3/8 |

## TPBPG1F — Test 20 Female X BSPP Female O-Ring Gauge Adaptor



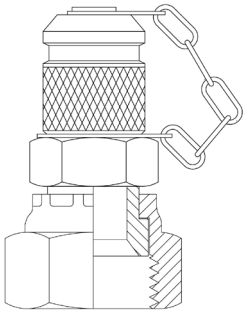
| Part # | Body | BSPP G F |
|---|---|---|
| TPBPG1F-20M-04G | TEST 20 (M16X2) | 1/4 |
| TPBPG1F-20M-08G | TEST 20 (M16X2) | 1/2 |

## TPBPG10MF — Test 20 Male Bulkhead X BSPP Female Gauge Adaptor



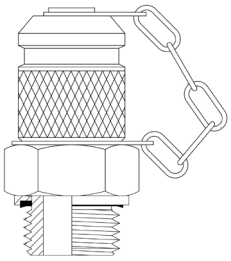
| Part # | Body | BSPS G F |
|---|---|---|
| TPBPG10MF-20M-04G | TEST 20 (M16X2) | 1/4 |

## TPJ1MFS — Test 20 Male Nipple X JIC Female Swivel



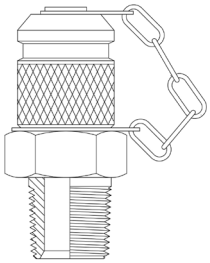
| Part # | Body | JIC F Swivel |
|---|---|---|
| TPJ1MFS-20M-04 | TEST 20 (M16X2) | 7/16 |
| TPJ1MFS-20M-06 | TEST 20 (M16X2) | 9/16 |
| TPJ1MFS-20M-08 | TEST 20 (M16X2) | 3/4 |

## TPMS1M — Test 20 Male Nipple X Metric Stud Male



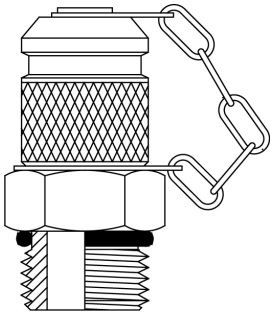
| Part # | Body | Metric Stud M |
|---|---|---|
| TPMS1M-20M-08M | TEST 20 (M16X2) | 8X1 |
| TPMS1M-20M-10M | TEST 20 (M16X2) | 10X1 |
| TPMS1M-20M-12M | TEST 20 (M16X2) | 12X1.5 |
| TPMS1M-20M-14M | TEST 20 (M16X2) | 14X1.5 |
| TPMS1M-20M-16M | TEST 20 (M16X2) | 16X1.5 |

## TPN1M — Test 20 Male Nipple X NPT Male



| Part # | Body | NPT M |
|---|---|---|
| TPN1M-20M-04 | TEST 20 (M16X2) | 1/4 |

## TPU1M — Test 20 Male Nipple X UNO Male



| Part # | Body | UNO M |
|---|---|---|
| TPU1M-20M-04 | TEST 20 (M16X2) | 7/16 |
| TPU1M-20M-06 | TEST 20 (M16X2) | 9/16 |
| TPU1M-20M-08 | TEST 20 (M16X2) | 3/4 |

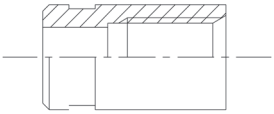
## Test Hose and Fittings

### TEST-DN — DN2 Test Hose



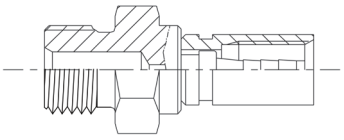
| Part # | Hose ID |
|---|---|
| TEST-DN2 | 2mm |

### TCN — DN2 Test Hose Ferrule



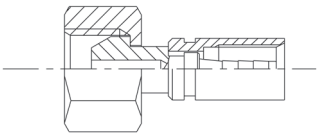
| Part # | Suit Hose |
|---|---|
| TCN-DN2 | TEST-DN2 |

### TCBPM — BSPP Male X DN2 Test Hose Tail



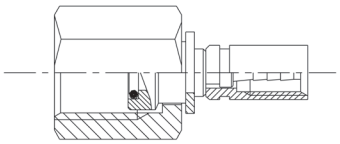
| Part # | BSPP M | Hose ID |
|---|---|---|
| TCBPM-02-DN2 | 1/8 | DN 2 |
| TCBPM-04-DN2 | 1/4 | DN 2 |

### TCBFS — BSPP Female Swivel X DN2 Test Hose Tail



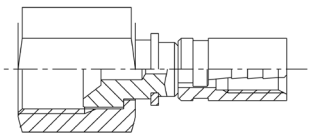
| Part # | BSPP F/S | Hose ID |
|---|---|---|
| TCBFS-04-DN2 | 1/4 | DN 2 |

## TCBPGFS — BSPP Female Swivel O-Ring Gauge Adaptor X DN2 Test Hose Tail



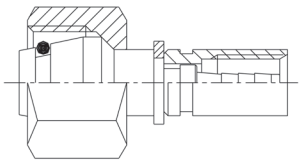
| Part # | BSPP G F/S | Hose ID |
|---|---|---|
| TCBPGFS-04-DN2 | 1/4 | DN 2 |
| TCBPGFS-08-DN2 | 1/2 | DN 2 |

## TCJFS — JIC Female Swivel X DN2 Test Hose Tail



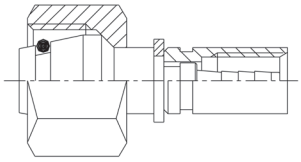
| Part # | JIC F/S | Hose ID |
|---|---|---|
| TCJFS-04-DN2 | 7/16 | DN 2 |
| TCJFS-06-DN2 | 9/16 | DN 2 |

## TCMLFS — Metric Light Female Swivel X DN2 Test Hose Tail



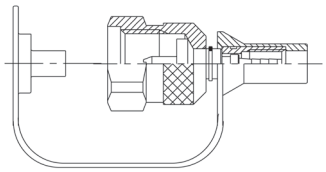
| Part # | Metric Light F/S | Hose ID |
|---|---|---|
| TCMLFS-12M-DN2 | M12 x 1.5 | DN 2 |
| TCMLFS-14M-DN2 | M14 x 1.5 | DN 2 |
| TCMLFS-16M-DN2 | M16 x 1.5 | DN 2 |

## TCMHFS — Metric Heavy Female Swivel X DN2 Test Hose Tail



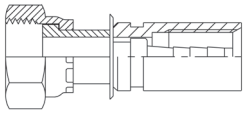
| Part # | Metric Heavy F/S | Hose ID |
|---|---|---|
| TCMHFS-14M-DN2 | M14 x 1.5 | DN 2 |
| TCMHFS-16M-DN2 | M16 x 1.5 | DN 2 |

## TCTEST — Test X DN2 Test Hose Tail



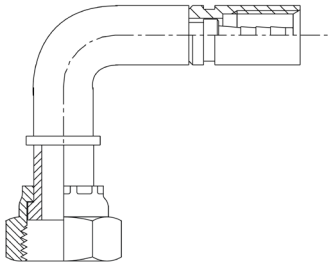
| Part # | Metric F/S | Hose ID |
|---|---|---|
| TCTEST20FS-16X2-DN2 | TEST 20 (M16 x 2) | DN 2 |
| TCTEST15FS-16X1.5-DN2 | TEST 15 (M16 x 1.5) | DN 2 |

## TCORSFS — ORFS Female Swivel X DN2 Test Hose Tail



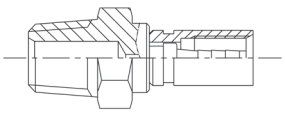
| Part # | ORFS F/S | Hose ID |
|---|---|---|
| TCORSFS-04-DN2 | 9/16 | DN 2 |

## TCORSFS90S — ORFS Female Swivel X DN2 Test Hose Tail 90°



| Part # | ORFS F/S | Hose ID |
|---|---|---|
| TCORSFS90S-04-DN2 | 9/16 | DN 2 |

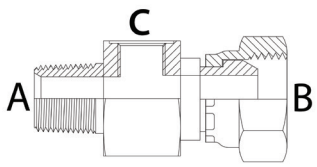
## TCNM — NPT Male X DN2 Test Hose Tail



| Part # | NPT M | Hose ID |
|---|---|---|
| TCNM-02-DN2 | 1/8 | DN 2 |
| TCNM-04-DN2 | 1/4 | DN 2 |

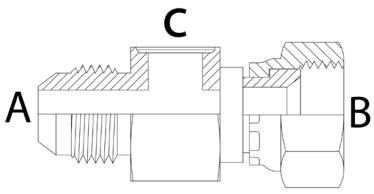
# In Line Test Ports

## B1MFS-TP — BSPT Male X BSPP Female Swivel X BSPP Test Port



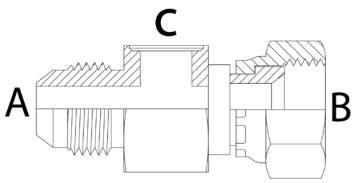

| Part # | BSPT M | BSPP F/S | BSPP F |
|---|---|---|---|
| B1MFS-04-04TP | 1/4 | 1/4 | 1/8 |
| B1MFS-06-06TP | 3/8 | 3/8 | 1/8 |
| B1MFS-08-08TP | 1/2 | 1/2 | 1/8 |
| B1MFS-12-12TP | 3/4 | 3/4 | 1/8 |
| B1MFS-16-16TP | 1 | 1 | 1/8 |

## J1MFS-TP — JIC Male X JIC Female Swivel X BSPP Female Test Port



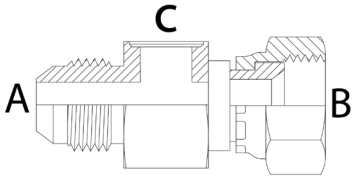

| Part # | JIC M | JIC F/S | BSPP F |
|---|---|---|---|
| J1MFS-04-04TP | 7/16 | 7/16 | 1/8 |
| J1MFS-06-06TP | 9/16 | 9/16 | 1/8 |
| J1MFS-08-08TP | 3/4 | 3/4 | 1/8 |
| J1MFS-10-10TP | 7/8 | 7/8 | 1/8 |
| J1MFS-12-12TP | 1 1/16 | 1 1/16 | 1/8 |
| J1MFS-16-16TP | 1 5/16 | 1 5/16 | 1/8 |
| J1MFS-20-20TP | 1 5/8 | 1 5/8 | 1/8 |

## J1MFS-TP-UNO — JIC Male X JIC Female Swivel X UNO Female Test Port



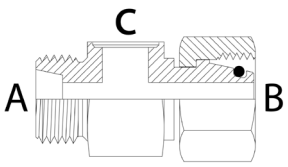

| Part # | JIC M | JIC F/S | UNO F |
|---|---|---|---|
| J1MFS-06-06TP-UNO | 9/16 | 9/16 | 7/16 |
| J1MFS-08-08TP-UNO | 3/4 | 3/4 | 7/16 |
| J1MFS-12-12TP-UNO | 1 1/16 | 1 1/16 | 7/16 |

## JIS1MFS-TP — JIS (BSPP) Male X JIS (BSPP) Female BSPP Port



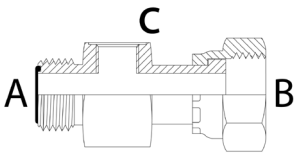

| Part # | JIS (BSPP) M | JIS (BSPP) F/S | BSPP F |
|---|---|---|---|
| JIS1MFS-08-08TP | 1/2 | 1/2 | 1/8 |

## ML1MFS-TP — Metric Light Male X Metric Light Female Swivel X BSPP Female Test Port




| Part # | Metric Light M | Metric Light F/S | BSPP F |
|---|---|---|---|
| ML1MFS-22M-22MTP | M22X1.5 | M22X1.5 | 1/8 |
| ML1MFS-26M-26MTP | M26X1.5 | M26X1.5 | 1/8 |
| ML1MFS-30M-30MTP | M30X2.0 | M30X2.0 | 1/8 |

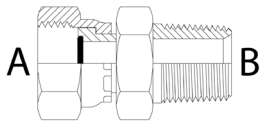
## ORS1MFS-TP — ORFS Male X ORFS Female Swivel X BSPP Female Test Port




| Part # | ORFS M | ORFS F/S | BSPP F |
|---|---|---|---|
| ORS1MFS-04-04TP | 9/16 | 9/16 | 1/8 |
| ORS1MFS-06-06TP | 11/16 | 11/16 | 1/8 |
| ORS1MFS-08-08TP | 13/16 | 13/16 | 1/8 |
| ORS1MFS-10-10TP | 1 | 1 | 1/8 |
| ORS1MFS-12-12TP | 1 3/16 | 1 3/16 | 1/8 |
| ORS1MFS-16-16TP | 1 7/16 | 1 7/16 | 1/8 |

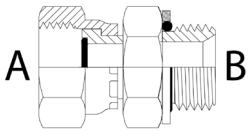
# Gauge Adaptors

## BPGB1FSM — BSPP Female O-Ring Gauge Adaptor X BSPT Male



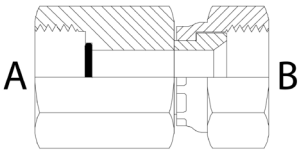

| Part # | BSPP G F/S | BSPT M |
|---|---|---|
| BPGB1FSM-04-04 | 1/4 | 1/4 |
| BPGB1FSM-08-04 | 1/2 | 1/4 |

## BPGBP1FSM — BSPP Female Swivel O-Ring Gauge Adaptor X BSPP Male



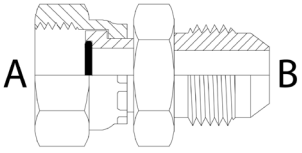

| Part # | BSPP G F/S | BSPP M |
|---|---|---|
| BPGBP1FSM-04-04 | 1/4 | 1/4 |
| BPGBP1FSM-04-06 | 1/4 | 3/8 |
| BPGBP1FSM-08-08 | 1/2 | 1/2 |

## BPGJ1FFS — BSPP Fixed Female O-Ring Gauge Adaptor X JIC Female




| Part # | BSPP G F/S | JIC F/S |
|---|---|---|
| BPGJ1FFFS-04-06 | 1/4 | 9/16 |

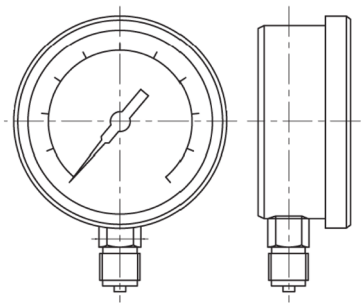
## BPGJ1FSM — BSPP Female Swivel O-Ring Gauge Adaptor X JIC Male




| Part # | BSPP G F/S | JIC M |
|---|---|---|
| BPGJ1FSM-04-04 | 1/4 | 7/16 |
| BPGJ1FSM-04-06 | 1/4 | 9/16 |
| BPGJ1FSM-08-04 | 1/2 | 7/16 |
| BPGJ1FSM-08-06 | 1/2 | 9/16 |

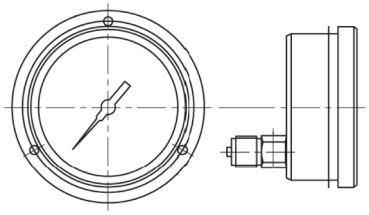
## Gauges

### PG-63-BE — Pressure Gauge - 63mm Bottom Entry



| Part # | BSPP M | Pressure Range |
|---|---|---|
| PG-63-6B-B | 1/4 | 0 - 6BAR / 87PSI |
| PG-63-10B-B | 1/4 | 0 - 10BAR / 145PSI |
| PG-63-16B-B | 1/4 | 0 - 16BAR / 230PSI |
| PG-63-25B-B | 1/4 | 0 - 25BAR / 360PSI |
| PG-63-40B-B | 1/4 | 0 - 40BAR / 580PSI |
| PG-63-60B-B | 1/4 | 0 - 60BAR / 870PSI |
| PG-63-100B-B | 1/4 | 0 - 100BAR / 1450PSI |
| PG-63-160B-B | 1/4 | 0 - 160BAR / 2300PSI |
| PG-63-250B-B | 1/4 | 0 - 250BAR / 3600PSI |
| PG-63-400B-B | 1/4 | 0 - 400BAR / 5800PSI |

### PG-63-RE — Pressure Gauge - 63mm Rear Entry



| Part # | BSPP M | Pressure Range |
|---|---|---|
| PG-63-10B-R | 1/4 | 0 - 10BAR / 145PSI |
| PG-63-16B-R | 1/4 | 0 - 16BAR / 230PSI |
| PG-63-25B-R | 1/4 | 0 - 25BAR / 360PSI |
| PG-63-40B-R | 1/4 | 0 - 40BAR / 580PSI |
| PG-63-60B-R | 1/4 | 0 - 60BAR / 870PSI |
| PG-63-100B-R | 1/4 | 0 - 100BAR / 1450PSI |
| PG-63-250B-R | 1/4 | 0 - 250BAR / 3600PSI |
| PG-63-400B-R | 1/4 | 0 - 400BAR / 5800PSI |
| PG-63-R-BRACKET | | |
| PG-63-R-FLANGE | | |

### SG — Sight Gauge



| Part # | BSPP M |
|---|---|
| SG-04 | 1/4 |
| SG-06 | 3/8 |
| SG-08 | 1/2 |
| SG-12 | 3/4 |
| SG-16 | 1 |

# F - Valves

## Contents

High Pressure Ball Valves. . . . . F2
High Pressure Needle Valves . . . . . F3
High Pressure Check Valves . . . . . F4

## High Pressure Ball Valves

### BV — High Pressure Ball Valve



| Part # | BSP F | Max Pressure (bar/psi) |
|---|---|---|
| BV-04 | 1/4 | 500 / 7250 |
| BV-06 | 3/8 | 500 / 7250 |
| BV-08 | 1/2 | 500 / 7250 |
| BV-12 | 3/4 | 420 / 6090 |
| BV-16 | 1 | 420 / 6090 |
| BV-20* | 1 1/4 | 420 / 6090 |
| BV-24* | 1 1/2 | 420 / 6090 |
| BV-32* | 2 | 420 / 6090 |

*Full Bore Valve



Full Bore

### BV3L — 3 Way High Pressure Ball Valve - L Port



| Part # | BSP F | Max Pressure (bar/psi) |
|---|---|---|
| BV3-04 | 1/4 | 500 / 7250 |
| BV3-06 | 3/8 | 500 / 7250 |
| BV3-08 | 1/2 | 500 / 7250 |
| BV3-12 | 3/4 | 350 / 5075 |
| BV3-16 | 1 | 350 / 5075 |
| BV3-20 | 1 1/4 | 350 / 5075 |
| BV3-24 | 1 1/2 | 350 / 5075 |

### BVLK — High Pressure Ball Valve Locking Kit



| Part # | Suits |
|---|---|
| BVLK-04-06-08 | -04, -06, -08 |
| BVLK-12-16 | -12, -16 |

*** Ball valve and handle not included***

# High Pressure Needle Valves

## SCV — Needle Valve - Checked



| Part # | BSP F | Max Pressure (bar/psi) | Cracking (bar/psi) |
|---|---|---|---|
| SCV-04 | 1/4 | 400 / 5800 | 0.5 / 7.25 |
| SCV-06 | 3/8 | 400 / 5800 | 0.5 / 7.25 |
| SCV-08 | 1/2 | 400 / 5800 | 0.5 / 7.25 |
| SCV-12 | 3/4 | 400 / 5800 | 0.5 / 7.25 |
| SCV-16 | 1 | 400 / 5800 | 0.5 / 7.25 |

## FCV — Needle Valve - Unchecked



| Part # | BSP F | Max Pressure (bar/psi) |
|---|---|---|
| FCV-04 | 1/4 | 400 / 5800 |
| FCV-06 | 3/8 | 400 / 5800 |
| FCV-08 | 1/2 | 400 / 5800 |
| FCV-12 | 3/4 | 400 / 5800 |
| FCV-16 | 1 | 400 / 5800 |
| FCV-20^ | 1 1/4 | |

^ Discontinued Item - Only available while stock lasts.

# High Pressure Check Valves

**CHV** | **High Pressure Check Valve**




| Part # | BSP F | Max Pressure (bar/psi) | Cracking (bar/psi) |
|---|---|---|---|
| CHV-04 | 1/4 | 500 / 7250 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-06 | 3/8 | 500 / 7250 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-08 | 1/2 | 500 / 7250 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-12 | 3/4 | 420 / 6090 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-16 | 1 | 420 / 6090 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-20 | 1 1/4 | 350 / 5075 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-24 | 1 1/2 | 350 / 5075 | 0.4 - 0.7 / 5.8 - 10.15 |
| CHV-32 | 2 | 350 / 5075 | 0.4 - 0.7 / 5.8 - 10.15 |

# G - Grease

## Contents

Grease Nipples . . . . . G2
Compression Fittings . . . . . G3
Grease Hose . . . . . G5
Grease Tails . . . . . G6

A Hydraulic Hose

B Hose Fittings

C Adaptors

D Quick Release Couplings

E Diagnostics

F Valves

G Grease

H Accessories

# Grease Nipples

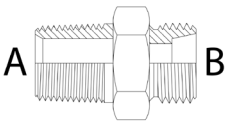
**GN** | **Straight Grease Nipples**



| Part # | Thread | Size |
|---|---|---|
| GN-04BSF | BSF | 1/4 |
| GN-05BSF | BSF | 5/16 |
| GN-02BSP | BSP | 1/8 |
| GN-04BSP | BSP | 1/4 |
| GN-10M | Metric | M10x1.0 |
| GN-06M | Metric | M6x1.0 |
| GN-02NPT | NPT | 1/8 |
| GN-04UNF | UNF | 1/4 |

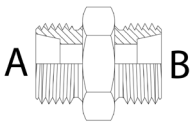
# Compression Fittings

## GBML1M — BSPT Male X Metric Light (LL) Male



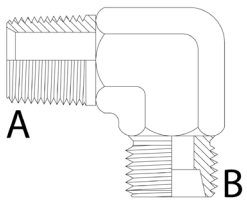

| Part # | BSPT M | Metric Light Light M |
|---|---|---|
| GBML1M-02-10M | 1/8 | M10X1.0 |
| GBML1M-04-10M | 1/4 | M10X1.0 |

## GML1M — Metric Light (LL) Male Joiner



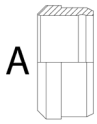

| Part # | Metric Light Light M | Metric Light Light M |
|---|---|---|
| GML1M-10M-10M | M10X1.0 | M10X1.0 |

## GBML9M — BSPT Male X Metric Light (LL) Male 90°




| Part # | BSPT M | Metric Light Light M |
|---|---|---|
| GBML9M-02-10M | 1/8 | M10X1.0 |

## GMLF Metric Cutting Sleeve (LL) (Grease)




| Part # | Suits Metric Light Light F | Tube |
|---|---|---|
| GMLF-10M | M10X1.0 | 6mm (LL) |

## GMLN Metric Tube Nut (LL) (Grease)




| Part # | Suits Metric Light Light F | Tube |
|---|---|---|
| GMLN-10M | M10X1.0 | 6mm (LL) |

# Grease Hose

**Grease Hose** | **8.6mm Grease Hose**

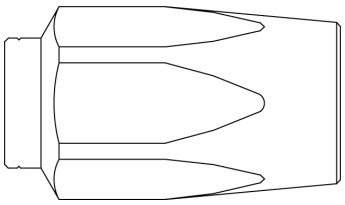


| Part # | |
|---|---|
| GE-03 | Empty |
| GF-03 | Full |

A Hydraulic Hose
B Hose Fittings
C Adaptors
D Quick Release Couplings
E Diagnostics
F Valves
G Grease
H Accessories

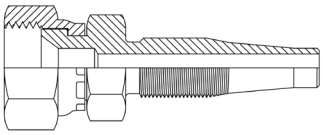
## Grease Tails

### GFAN — Grease Ferrule



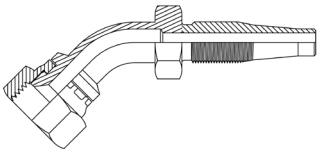
| Part # | Hose OD |
|---|---|
| GFAN-03 | 8.6mm |

### GFAJFS — JIC Female Swivel X Grease Straight



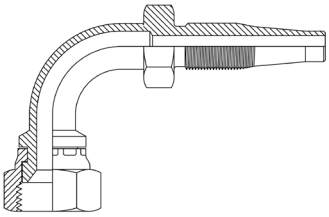
| Part # | JIC F/S | Hose OD |
|---|---|---|
| GFAJFS-04-03 | 7/16 | 8.6mm |

### GFAJFS45S — JIC Female Swivel X Grease Swept 45°



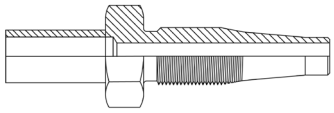
| Part # | JIC F/S | Hose OD |
|---|---|---|
| GFAJFS45S-04-03 | 7/16 | 8.6mm |

### GFAJFS90S — JIC Female Swivel X Grease Swept 90°



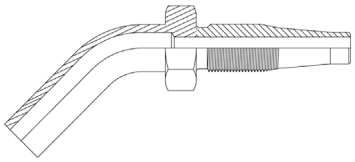
| Part # | JIC F/S | Hose OD |
|---|---|---|
| GFAJFS90S-04-03 | 7/16 | 8.6mm |

## GFAMSP — Metric Stand Pipe X Grease Straight



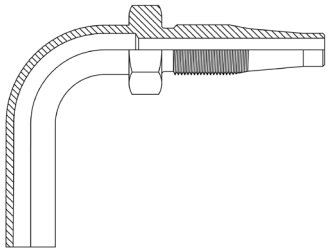
| Part # | Tube | Hose OD | Length mm |
|---|---|---|---|
| GFAMSP-10M-03 | 6mm | 8.6mm | 20 |
| GFAMSPL-10M-03 | 6mm | 8.6mm | 30 |

## GFAMSP4 — Metric Stand Pipe X Grease Swept 45°



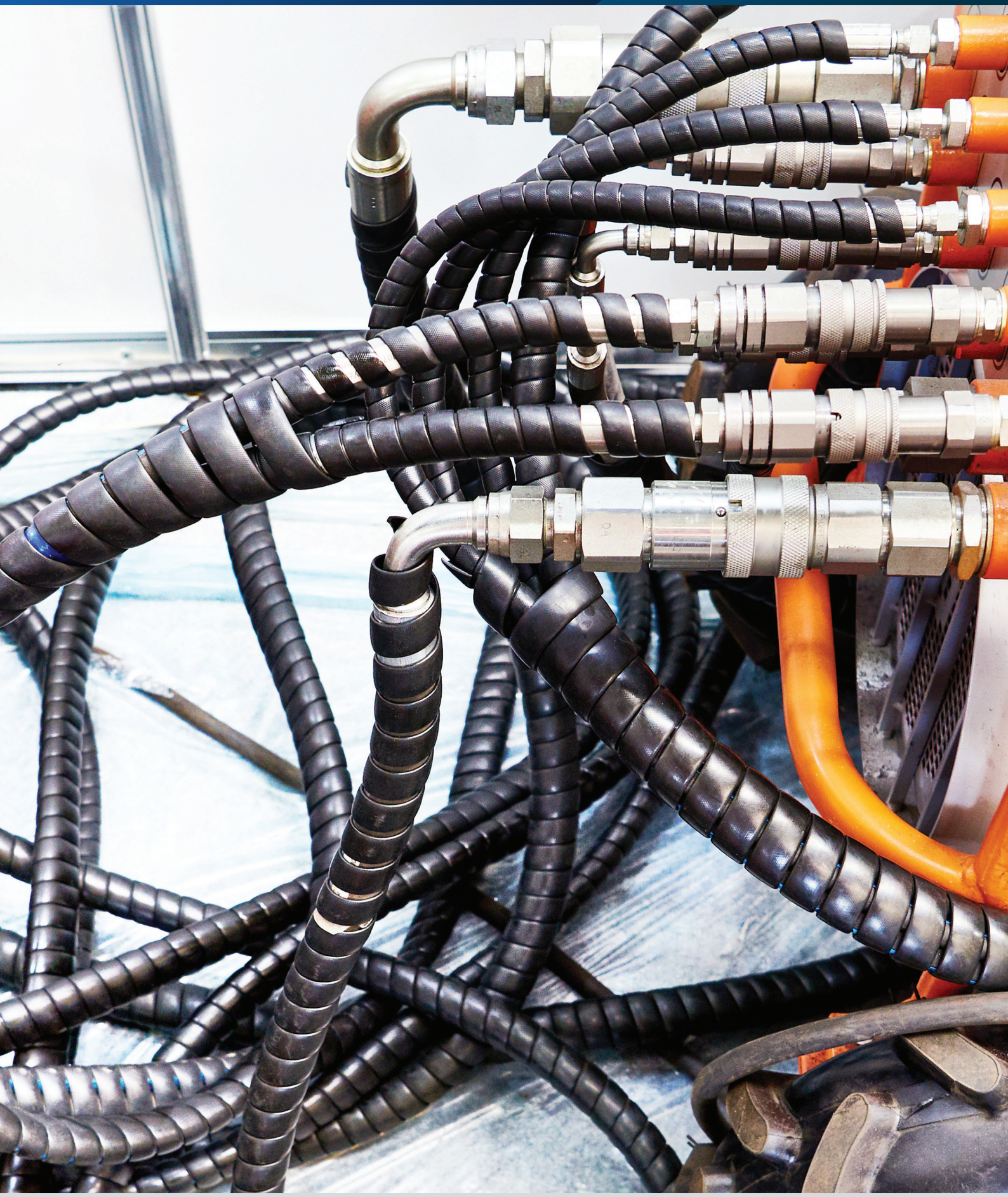
| Part # | Tube | Hose OD |
|---|---|---|
| GFAMSP4-10M-03 | 6mm | 8.6mm |

## GFAMSP9 — Metric Stand Pipe X Grease Swept 90°



| Part # | Tube | Hose OD | Length mm |
|---|---|---|---|
| GFAMSP9-10M-03 | 6mm | 8.6mm | 21 |
| GFAMSP9L-10M-03 | 6mm | 8.6mm | 37 |

# Grease



# H - Accessories

## Contents

Hose Protection . . . . . H2
Clamps . . . . . H4
Seals. . . . . H10
Plastic Covers . . . . . H15
Tube . . . . . H17
Oil. . . . . H18

## Hose Protection

### HP — Hose Protection Wrap - Black



| Part # | Hose OD min | Hose OD max | Box QTY |
|---|---|---|---|
| HP-09 | 7 | 10 | 20m |
| HP-12 | 9 | 12 | 20m |
| HP-16 | 12 | 17 | 20m |
| HP-20 | 16 | 22 | 20m |
| HP-25 | 22 | 28 | 20m |
| HP-32 | 27 | 33 | 20m |
| HP-40 | 32 | 42 | 20m |
| HP-50 | 42 | 55 | 20m |
| HP-63 | 52 | 65 | 20m |
| HP-75 | 65 | 80 | 20m |
| HP-90 | 80 | 150 | 10m |
| HP-110 | 110 | 150 | 10m |

*Also available in Blue, Green, Orange, Red, White Yellow and NG (Night Glow). To order add colour to above part number IE HP-25-BLUE*

### TFBB — Burst Buster Sleeve




| Part # | Flat Width mm | Sleeve ID mm |
|---|---|---|
| TFBB-18 | 32 | 18 |
| TFBB-23 | 40 | 23 |
| TFBB-29 | 50 | 29 |
| TFBB-36 | 61 | 36 |
| TFBB-40 | 67 | 40 |
| TFBB-45 | 75 | 45 |
| TFBB-56 | 92 | 56 |
| TFBB-63 | 103 | 63 |
| TFBB-71 | 116 | 71 |
| TFBB-93 | 146 | 93 |
| TFBB-110 | 177 | 110 |

### BR — Minimum Bend Radius (MM) Restrictor



| Part # | Suits |
|---|---|
| BR-04 | 1/4 1and 2 Wire Hose |
| BR-06 | 3/8 1and 2 Wire Hose |
| BR-08 | 1/2 1and 2 Wire Hose |

## HP-FSR — Hose Protection Fire Sleeve - Red



| Part # | Min | Max |
|---|---|---|
| HP-FSR-10 | 8 | 12 |
| HP-FSR-15 | 12 | 15 |
| HP-FSR-20 | 16 | 22 |
| HP-FSR-25 | 22 | 27 |
| HP-FSR-32 | 27 | 33 |
| HP-FSR-40 | 32 | 42 |
| HP-FSR-50 | 40 | 55 |
| HP-FSR-65 | 52 | 65 |
| HP-FSR-75 | 65 | 75 |
| HP-FSR-90 | 75 | 90 |
| HP-FSR-100 | 80 | 100 |
| HP-FSRT | Silicone Self Fusing Tape Iron Oxide RED 5.00M | |

## SPG — Spring Guard



| Part # | Spring ID mm |
|---|---|
| SPG-17 | 16 |
| SPG-21 | 21 |
| SPG-23 | 23 |
| SPG-27 | 27 |
| SPG-31 | 30 |
| SPG-34 | 34 |
| SPG-41 | 39 |
| SPG-49 | 49 |
| SPG-56 | 56 |

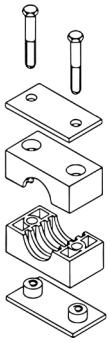
## HS — Hose Straps



| Part # | Length mm |
|---|---|
| HS-400 | 400 |
| HS-600 | 600 |
| HS-800 | 800 |
| HS-1000 | 1000 |
| HS-1500 | 1500 |

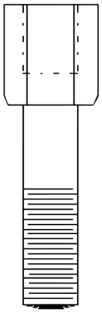
## Clamps

### CLLS — Light Duty Single Tube Clamps



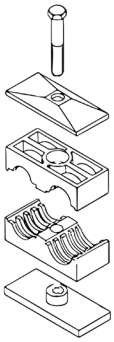
| Part # | Clamp ID |
|---|---|
| CL-L-S-06M | 6mm |
| CL-L-S-04 | 1/4" (6.35mm) |
| CL-L-S-08M | 8mm |
| CL-L-S-06 | 3/8" (9.53mm) |
| CL-L-S-10M | 10mm |
| CL-L-S-12M | 12mm |
| CL-L-S-08 | 12.7mm |
| CL-L-S-14M | 14mm |
| CL-L-S-15M | 15mm |
| CL-L-S-10 | 5/8" (15.875mm) |
| CL-L-S-17M | 17mm |
| CL-L-S-18M | 18mm |
| CL-L-S-12 | 3/4" (19.05mm) |
| CL-L-S-20M | 20mm |
| CL-L-S-14 | 7/8" (22.225mm) |
| CL-L-S-16 | 1" (25.4mm) |
| CL-L-S-27M | 27mm |
| CL-L-S-28M | 28mm |
| CL-L-S-30M | 30mm |
| CL-L-S-20 | 1 1/4" (31.75mm) |
| CL-L-S-34M | 33.7mm |
| CL-L-S-35M | 35mm |
| CL-L-S-24 | 1 1/2" (38.1mm) |
| CL-L-S-42M | 42mm |
| CL-L-S-45M | 45mm |
| CL-L-S-48M | 48mm |
| CL-L-S-32 | 2" (50.8mm) |
| CL-L-S-60M | 60mm |

### CLLS-STB — Light Duty Single Tube Clamps - Stacking Bolts



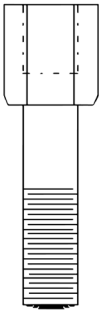
| Part # | Suits |
|---|---|
| CL-L-S-STB1 | -04,-06,-06M,-08M,-10M,-12M |
| CL-L-S-STB2 | -08,-10,13.5M,14M,15M,17.1M,18M |
| CL-L-S-STB3 | -12,-10,-16,-20M,-21.3M,23M,25M |
| CL-L-S-STB4 | -26.6M , -28M , -30M |
| CL-L-S-STB5 | -20,-24,-33.7M,-35M,-40M,-42M |

## CLLT — Light Duty Twin Tube Clamps



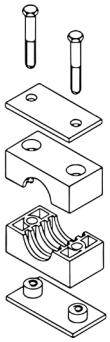
| Part # | Clamp ID mm |
|---|---|
| CL-L-T-06M | 6mm |
| CL-L-T-04 | 1/4" (6.35mm) |
| CL-L-T-08M | 8mm |
| CL-L-T-06 | 3/8" (9.53mm) |
| CL-L-T-10M | 10mm |
| CL-L-T-12M | 12mm |
| CL-L-T-08 | 1/2" (12.7mm) |
| CL-L-T-14M | 14mm |
| CL-L-T-15M | 15mm |
| CL-L-T-10 | 5/8" (15.875mm) |
| CL-L-T-17M | 17mm |
| CL-L-T-18M | 18mm |
| CL-L-T-12 | 3/4" (19.05mm) |
| CL-L-T-20M | 20mm |
| CL-L-T-14 | 7/8" (22.225mm) |
| CL-L-T-16 | 1" (25.4mm) |
| CL-L-T-28M | 28mm |
| CL-L-T-30M | 30mm |
| CL-L-T-20 | 1 1/4" (31.75mm) |
| CL-L-T-35M | 35mm |
| CL-L-T-24 | 1 1/2 (38.1mm) |
| CL-L-T-42M | 42mm |

## CLLT-STB — Light Duty Twin Tube Clamps - Stacking Bolts



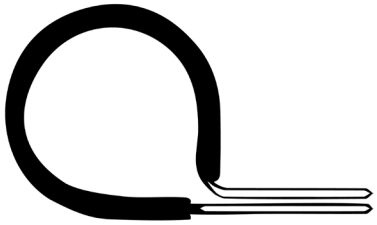
| Part # | Suits |
|---|---|
| CL-L-T-STB1 | -04,-06,-06M,-08M,-10M,-12M |
| CL-L-T-STB2 | -08,-10,13.5M,14M,15M,17.1M,18M |
| CL-L-T-STB3 | -12,-10,-16,-20M,-21.3M,23M,25M |
| CL-L-T-STB4 | -26.6M , -28M , -30M |
| CL-L-T-STB5 | -20,-24,-33.7M,-35M,-40M,-42M |
| CL-L-T-LTP2 | Locking Plate to suit Twin Clamps -08 Thru -42 |

## CLHS — Heavy Duty Single Tube Clamps



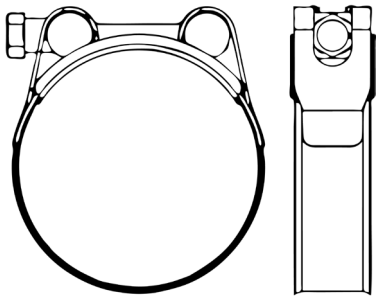
| Part # | Clamp ID mm |
|---|---|
| CL-H-S-10 | 5/8" (15.875mm) |
| CL-H-S-12 | 3/4" (19.05mm) |
| CL-H-S-14 | 7/8 (22mm) |
| CL-H-S-16 | 1" (25.4mm) |
| CL-H-S-27M | 27mm |
| CL-H-S-20 | 1 1/4" (31.75mm) |
| CL-H-S-34M | 34mm |
| CL-H-S-24 | 1 1/2" (38.1mm) |
| CL-H-S-42M | 42mm |
| CL-H-S-45M | 45mm |
| CL-H-S-48M | 48mm |
| CL-H-S-32 | 2" (50.8mm) |
| CL-H-S-60M | 60mm |
| CL-H-S-64M | 64mm |
| CL-H-S-65M | 65mm |

## PCLAMP P-Clamps



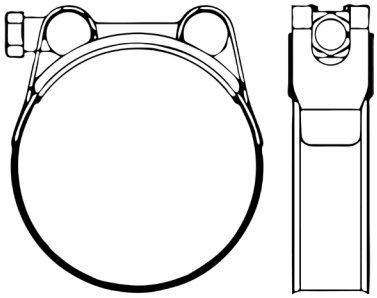
| Part # | Clamp ID mm | Bolt Hole mm |
|---|---|---|
| HC-06 | 6.34 | 10 |
| HC-10 | 9.525 | 10 |
| HC-11 | 11.13 | 10 |
| HC-13 | 12.7 | 10 |
| HC-14 | 14.28 | 10 |
| HC-16 | 15.88 | 10 |
| HC-18 | 17.48 | 10 |
| HC-19 | 19.05 | 10 |
| HC-21 | 20.63 | 10 |
| HC-24 | 23.84 | 10 |
| HC-25 | 25.4 | 10 |
| HC-27 | 26.98 | 10 |
| HC-29 | 28.58 | 10 |
| HC-30 | 30.18 | 10 |
| HC-32 | 31.75 | 10 |
| HC-33 | 33.33 | 13 |
| HC-38 | 38.1 | 13 |
| HC-40 | 39.48 | 13 |
| HC-45 | 44.45 | 13 |
| HC-46 | 45.97 | 13 |
| HC-51 | 50.8 | 13 |
| HC-52 | 52.33 | 13 |
| HC-57 | 57.15 | 13 |
| HC-64 | 63.5 | 13 |
| HC-67 | 66.8 | 13 |
| HC-70 | 69.85 | 13 |
| HC-73 | 73.09 | 13 |
| HC-91 | 90.43 | 13 |

## SUPER-CLAMP — Super Clamps (T-Bolt)



| Part # | Min ID (MM) | Max ID (MM) |
|---|---|---|
| TFSC-2123 | 21 | 23 |
| TFSC-2325 | 23 | 25 |
| TFSC-2628 | 26 | 28 |
| TFSC-2931 | 29 | 31 |
| TFSC-3235 | 32 | 35 |
| TFSC-3437 | 34 | 37 |
| TFSC-3639 | 36 | 39 |
| TFSC-4043 | 40 | 43 |
| TFSC-4447 | 44 | 47 |
| TFSC-4851 | 48 | 51 |
| TFSC-5255 | 52 | 55 |
| TFSC-5659 | 56 | 59 |
| TFSC-6063 | 60 | 63 |
| TFSC-6467 | 64 | 67 |
| TFSC-6873 | 68 | 73 |
| TFSC-7479 | 74 | 79 |
| TFSC-8085 | 80 | 85 |
| TFSC-8691 | 86 | 91 |
| TFSC-9297 | 92 | 97 |
| TFSC-98103 | 98 | 103 |
| TFSC-104112 | 104 | 112 |
| TFSC-113121 | 113 | 121 |
| TFSC-122130 | 122 | 130 |
| TFSC-149161 | 149 | 161 |
| TFSC-162174 | 162 | 174 |

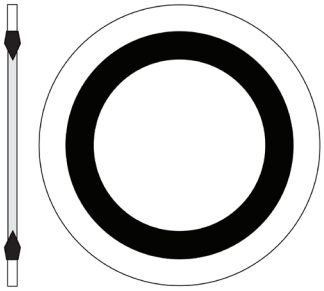
## SUPER-CLAMP-SS — Super Clamps (T-Bolt) Stainless Steel



| Part # | Min ID (MM) | Max ID (MM) |
|---|---|---|
| TFSC-2325SS | 23 | 25 |
| TFSC-2628SS | 26 | 28 |
| TFSC-2931SS | 29 | 31 |
| TFSC-3235SS | 32 | 35 |
| TFSC-3437SS | 34 | 37 |
| TFSC-3639SS | 36 | 39 |
| TFSC-3841SS | 38 | 41 |
| TFSC-4043SS | 40 | 43 |
| TFSC-4447SS | 44 | 47 |
| TFSC-4851SS | 48 | 51 |
| TFSC-5255SS | 52 | 55 |
| TFSC-5659SS | 56 | 59 |
| TFSC-5861SS | 58 | 61 |
| TFSC-6063SS | 60 | 63 |
| TFSC-6265SS | 62 | 65 |
| TFSC-6467SS | 64 | 67 |
| TFSC-6873SS | 68 | 73 |
| TFSC-7479SS | 74 | 79 |
| TFSC-8085SS | 80 | 85 |
| TFSC-8691SS | 86 | 91 |
| TFSC-9297SS | 92 | 97 |
| TFSC-98103SS | 98 | 103 |
| TFSC-104112SS | 104 | 112 |
| TFSC-113121SS | 113 | 121 |
| TFSC-162174SS | 162 | 174 |

## Seals

### DWB — BSP Bonded Washer



| Part # | BSPP |
|---|---|
| DWB-02 | 1/8 |
| DWB-04 | 1/4 |
| DWB-04SS* | 1/4 |
| DWB-06 | 3/8 |
| DWB-06SS* | 3/8 |
| DWB-08 | 1/2 |
| DWB-08SS* | 1/2 |
| DWB-12 | 3/4 |
| DWB-12SS* | 3/4 |
| DWB-16 | 1 |
| DWB-16SS* | 1 |
| DWB-20 | 1 1/4 |
| DWB-20SS* | 1 1/4 |
| DWB-24 | 1 1/2 |
| DWB-24SS* | 1 1/2 |
| DWB-32 | 2 |
| DWB-32SS* | 2 |

* SS = Stainless Steel

### OR-BPE — BSP Encapsulated O-Rings

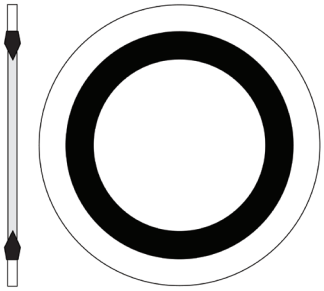


| Part # | BSPP |
|---|---|
| OR-BPE-02 | 1/8 |
| OR-BPE-04 | 1/4 |
| OR-BPE-06 | 3/8 |
| OR-BPE-08 | 1/2 |
| OR-BPE-12 | 3/4 |
| OR-BPE-16 | 1 |
| OR-BPE-20 | 1 1/4 |



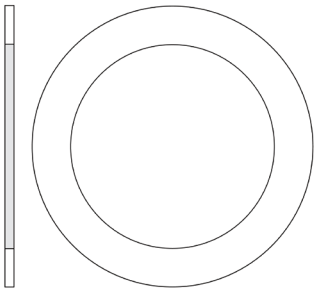
(08) 9451 2204

## DWM — Metric Bonded Washer



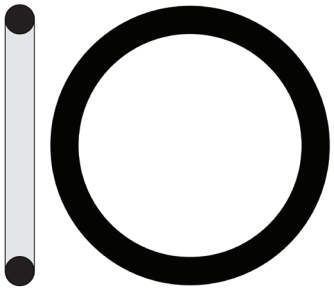
| Part # | Metric |
|---|---|
| DWM-06M | 6mm |
| DWM-08M | 8mm |
| DWM-10M | 10mm |
| DWM-12M | 12mm |
| DWM-14M | 14mm |
| DWM-16M | 16mm |
| DWM-18M | 18mm |
| DWM-20M | 20mm |
| DWM-22M | 22mm |
| DWM-24M | 24mm |
| DWM-26M | 26mm |
| DWM-27M | 27mm |
| DWM-30M | 30mm |
| DWM-33M | 33mm |
| DWM-36M | 36mm |
| DWM-42M | 42mm |

## SR-BP — BSPP Seal Ring



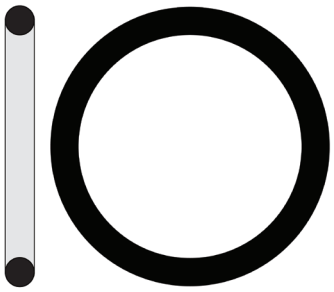
| Part # | BSPP |
|---|---|
| SR-BP-02 | 1/8 |
| SR-BP-04 | 1/4 |
| SR-BP-06 | 3/8 |
| SR-BP-08 | 1/2 |
| SR-BP-12 | 3/4 |
| SR-BP-16 | 1 |
| SR-BP-20 | 1 1/4 |
| SR-BP-24 | 1 1/2 |
| SR-BP-32 | 2 |

## OR-BP — BSPP O-Ring



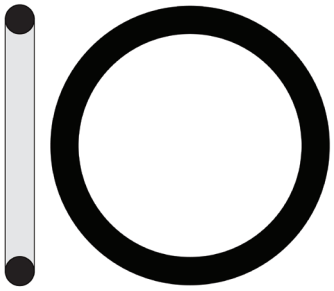
| Part # | BSPP |
|---|---|
| OR-BP-02 | 1/8 |
| OR-BP-04 | 1/4 |
| OR-BP-06 | 3/8 |
| OR-BP-08 | 1/2 |
| OR-BP-12 | 3/4 |
| OR-BP-16 | 1 |
| OR-BP-20 | 1 1/4 |
| OR-BP-24 | 1 1/2 |
| OR-BP-32 | 2 |

## OR-ORS — ORFS O-Rings



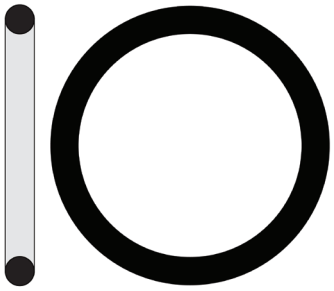
| Part # | ORFS |
|---|---|
| OR-ORS-04 | 9/16 |
| OR-ORS-06 | 11/16 |
| OR-ORS-08 | 13/16 |
| OR-ORS-10 | 1 |
| OR-ORS-12 | 1 3/16 |
| OR-ORS-16 | 1 7/16 |
| OR-ORS-20 | 1 11/16 |
| OR-ORS-24 | 2 |

## OR-MH — Metric Heavy O-Rings



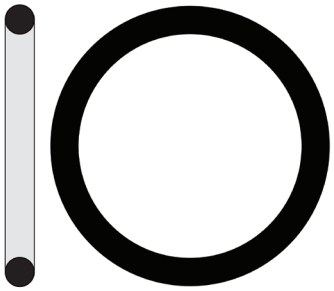
| Part # | Suit Hose Tail Size |
|---|---|
| OR-MH-14M | 14M |
| OR-MH-16M | 16M |
| OR-MH-18M | 18M |
| OR-MH-20M | 20M |
| OR-MH-22M | 22M |
| OR-MH-24M | 24M |
| OR-MH-30M | 30M |
| OR-MH-36M | 36M |
| OR-MH-42M | 42M |
| OR-MH-52M | 52M |

## OR-ML — Metric Light O-Rings



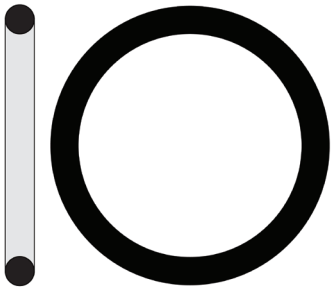
| Part # | Suit Hose Tail Size |
|---|---|
| OR-ML-12M | 12M |
| OR-ML-14M | 14M |
| OR-ML-16M | 16M |
| OR-ML-18M | 18M |
| OR-ML-22M | 22M |
| OR-ML-26M | 26M |
| OR-ML-30M | 30M |
| OR-ML-36M | 36M |
| OR-ML-45M | 45M |
| OR-ML-52M | 52M |

## OR-SF — SAE Flange O-Rings (Code 61/Code62)



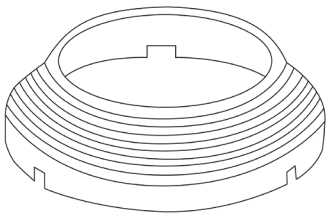
| Part # | SAE Code 61/62 |
|---|---|
| OR-SF-08 | 1/2 |
| OR-SF-10 | 5/8 |
| OR-SF-12 | 3/4 |
| OR-SF-16 | 1 |
| OR-SF-20 | 1 1/4 |
| OR-SF-24 | 1 1/2 |
| OR-SF-32 | 2 |
| OR-SF-40 | 2 1/2 |
| OR-SF-48 | 3 |
| OR-SF-56 | 3 1/2 |

## OR-UNO — UNO O-Rings



| Part # | UNO |
|---|---|
| OR-UNO-02 | 5/16 |
| OR-UNO-03 | 3/8 |
| OR-UNO-04 | 7/16 |
| OR-UNO-05 | 1/2 |
| OR-UNO-06 | 9/16 |
| OR-UNO-08 | 3/4 |
| OR-UNO-10 | 7/8 |
| OR-UNO-12 | 1 1/16 |
| OR-UNO-14 | 1 3/16 |
| OR-UNO-16 | 1 5/16 |
| OR-UNO-20 | 1 5/8 |
| OR-UNO-24 | 1 7/8 |
| OR-UNO-32 | 2 1/2 |

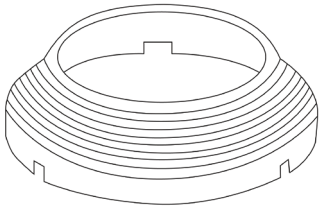
## TF-37FT-316 — JIC Flaretite Seal 316 Stainless Steel



| Part # | JIC |
|---|---|
| TF-37FT-04-316 | 7/16 |
| TF-37FT-06-316 | 9/16 |
| TF-37FT-08-316 | 3/4 |
| TF-37FT-10-316 | 7/8 |
| TF-37FT-12-316* | 1 1/16 |
| TF-37FT-16-316 | 1 5/16 |
| TF-37FT-20-316 | 1 5/8 |
| TF-37FT-24-316 | 1 7/8 |
| TF-37FT-32-316 | 2 1/2 |

* Also available in 304 stainless steel

## TF-37FT-AL — JIC Flaretite Seal Aluminium



| Part # | JIC |
|---|---|
| TF-37FT-08-AL-BLU | 3/4 |
| TF-37FT-10-AL-BLU | 7/8 |

# Plastic Covers

## PBPC — BSPP Cap - Plastic Thread Protector - Screw Type



| Part # | BSP / NPT |
|---|---|
| PBPC-04 | 1/4 |
| PBPC-06 | 3/8 |
| PBPC-08 | 1/2 |
| PBPC-12 | 3/4 |
| PBPC-16 | 1 |

## PBP — BSPP Plug - Plastic Thread Protector - Screw Type



| Part # | BSP / NPT |
|---|---|
| PBP-04 | 1/4 |
| PBP-06 | 3/8 |
| PBP-08 | 1/2 |
| PBP-12 | 3/4 |
| PBP-16 | 1 |

## PJC — JIC Cap - Plastic Thread Protector - Screw Type



| Part # | JIC / UNO |
|---|---|
| PJC-04 | 7/16 |
| PJC-06 | 9/16 |
| PJC-08 | 3/4 |
| PJC-12 | 1 1/16 |
| PJC-16 | 1 5/16 |
| PJC-20 | 1 5/8 |
| PJC-24 | 1 7/8 |
| PJC-32 | 2 1/2 |

## PJP — JIC Plug - Plastic Thread Protector - Screw Type



| Part # | JIC / UNO |
|---|---|
| PJP-04 | 7/16 |
| PJP-06 | 9/16 |
| PJP-08 | 3/4 |
| PJP-10 | 7/8 |
| PJP-12 | 1 1/16 |
| PJP-16 | 1 5/16 |
| PJP-20 | 1 5/8 |
| PJP-24 | 1 7/8 |
| PJP-32 | 2 1/2 |

## SVC — Service Plug Kit



| Part # | Sizes |
|---|---|
| SVC-10 | 4 x 10mm, 4 x 20mm, 2 x 40mm |

# Tube

**TFHYD-TUBE** | **Zinc Plated Hydraulic Tube**



| Part # | Tube OD | Wall mm |
|---|---|---|
| TFHYD-TUBE-04-091 | 1/4 | 0.91 |
| TFHYD-TUBE-05-091 | 5/16 | 0.91 |
| TFHYD-TUBE-06-122 | 3/8 | 1.22 |
| TFHYD-TUBE-06-163 | 3/8 | 1.63 |
| TFHYD-TUBE-08-122 | 1/2 | 1.22 |
| TFHYD-TUBE-08-163 | 1/2 | 1.63 |
| TFHYD-TUBE-10-163 | 5/8 | 1.63 |
| TFHYD-TUBE-10-203 | 5/8 | 2.03 |
| TFHYD-TUBE-12-163 | 3/4 | 1.63 |
| TFHYD-TUBE-12-203 | 3/4 | 2.03 |
| TFHYD-TUBE-12-325 | 3/4 | 3.25 |
| TFHYD-TUBE-16-163 | 1 | 1.63 |
| TFHYD-TUBE-16-203 | 1 | 2.03 |
| TFHYD-TUBE-16-264 | 1 | 2.64 |
| TFHYD-TUBE-20-203 | 1 1/4 | 2.03 |
| TFHYD-TUBE-20-264 | 1 1/4 | 2.64 |
| TFHYD-TUBE-20-325 | 1 1/4 | 3.25 |

A Hydraulic Hose

B Hose Fittings

C Adaptors

D Quick Release Couplings

E Diagnostics

F Valves

G Grease

H Accessories

## Oil

### HYD32 — 32 Weight Oil




| Part # | SIZE |
|---|---|
| TFHYD32/20 | 20L |

### HYD46 — 46 Weight Oil




| Part # | SIZE |
|---|---|
| TFHYD46/20-HVI | 20L |
| TFHYD46/20 | 20L |

### HYD68 — 68 Weight Oil




| Part # | SIZE |
|---|---|
| TFHYD68/20 | 20L |
| TFHYD68/20-HVI | 20L |
| TFHYD68/200 | 200L |
| TFHYD68/1000 | 1000L |

# Industrial

## Contents


I - Industrial Hose / Tube I3
Rubber Hose . . . . . I4
Silicone Hose . . . . . I9
PVC Hose . . . . . I10
Nylon Tube . . . . . I14

J - Brass J1
DOT Coupling . . . . . J2
DOT Quick-Fit . . . . . J4
Hose Barb . . . . . J10
Threaded Adaptor . . . . . J13
Push Fit . . . . . J17

K - Airline Couplings K1
Nitto - HI-CUPLA . . . . . K2

L - Camlocks L1
Camlocks . . . . . L2

M - Claw Couplings M1
Minsup Type A . . . . . M2

N - Low Pressure Stainless Steel N1
Straight . . . . . N2
45° Adaptors . . . . . N5
90° Adaptors . . . . . N6
Tee Adaptors . . . . . N7
Hose Tail . . . . . N8

O - Industrial Valves O1
Low Pressure Ball Valves . . . . . O2
Brass Check Valves . . . . . O4

# Industrial Hose/Tube



# I - Industrial Hose / Tube

## Contents

Rubber Hose . . . . . I4
Silicone Hose . . . . . I9
PVC Hose . . . . . I10
Nylon Tube . . . . . I14

## Rubber Hose

**GMV-MEGAFLEX** | **SAE100R4 Gates MULTI MASTER Return Line and Suction Hose**

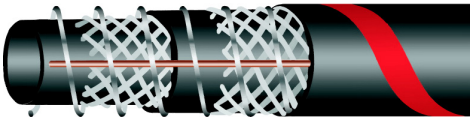



| | |
|---|---|
| ***RECOMMENDED FOR*** | Meets or exceeds SAE 100R4. Meets SAE J30R5 and SAE J20R5* (*except tube dimensions). Applications requiring excellent flexibility and maximum resistance to air, water, coolant, petroleum lubricating oils, and refined fuels. Ideal for hydraulic return and suction lines, transferring refined fuels or other petroleum products, and coolant lines. |
| ***TUBE*** | Type C (Nitrile). Black. |
| ***REINFORCEMENT*** | Synthetic, high tensile textile reinforcement with steel wire helix. |
| ***COVER*** | Type A (Polychloroprene). Black, corrugated. |
| ***TEMPERATURE RANGE*** | −40°C to +135°C. Warning: Do not convey fuels over +120°F (+49°C) and for coolant applications (20R5) max temperature is +212°F (100°C) |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B127)<br>-12 to -20 - G Series - MegaCrimp® Couplings (B5)<br>-24 to -32 - GSP Series - GlobalSpiral™ Plus Couplings (B59) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| GMV-MEGAFLEX-12 | 3/4 | 30.5 | 350 | 20.3 | 30 |
| GMV-MEGAFLEX-16 | 1 | 35.8 | 300 | 25.4 | 30 |
| GMV-MEGAFLEX-20 | 1 1/4 | 42.2 | 250 | 33.0 | 30 |
| GMV-MEGAFLEX-24 | 1 1/2 | 48.3 | 150 | 38.1 | 30 |
| GMV-MEGAFLEX-32 | 2 | 60.7 | 150 | 50.8 | 30 |
| GMV-MEGAFLEX-40 | 2 1/2 | 74.7 | 150 | 63.5 | 30 |
| GMV-MEGAFLEX-48 | 3 | 87.4 | 150 | 76.2 | 30 |
| GMV-MEGAFLEX-64 | 4 | 113.8 | 150 | 101.6 | 30 |
| GMV-MEGAFLEX-96 | 6 | 166.4 | 150 | 152.4 | 30 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

## TFSR SUCTION RETURN HOSE



| | |
|---|---|
| ***RECOMMENDED FOR*** | Designed for use in petroleum suction and discharge applications. Also suitable as a heavy duty wet marine exhaust hose. |
| ***TUBE*** | Black Nitrile Rubber Blend |
| ***REINFORCEMENT*** | Dual High Tensile Steel Wire Helix and a High Tensile Synthetic Braid |
| ***COVER*** | Black Nitrile Rubber Blend with a Red Stripe. |
| ***TEMPERATURE RANGE*** | -20°C to +70°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Minimum Bend Radius (MM) | Roll Length (M) |
|---|---|---|---|---|---|
| TFSR-12 | 3/4 | 28 | 150 | 160.0 | 20 |
| TFSR-16 | 1 | 35 | 150 | 200.0 | 20 |
| TFSR-20 | 1 1/4 | 42 | 150 | 256.0 | 20 |
| TFSR-24 | 1 1/2 | 48 | 150 | 304.0 | 20 |
| TFSR-32 | 2 | 63 | 150 | 400.0 | 20 |
| TFSR-40 | 2 1/2 | 77 | 150 | 504.0 | 20 |
| TFSR-48 | 3 | 89 | 150 | 608.0 | 20 |
| TFSR-56 | 3 1/2 | 105 | 150 | 720.0 | 20 |
| TFSR-64 | 4 | 118 | 150 | 816.0 | 20 |
| TFSR-96 | 6 | 170 | 150 | 1824.0 | 20 |

## WME — Wet Marine Exhaust



| | |
|---|---|
| ***RECOMMENDED FOR*** | Light weight, flexible, hard-wall hose for water cooled diesel engine exhaust gas systems. Conforms to SAE J 2006:03 R2 - ISO 13363 ; 04 Type 2 CLASS B. LLOYD's Register nr. 18/0005. |
| ***TUBE*** | Black smooth sybthetic rubber. |
| ***REINFORCEMENT*** | High strength synthetic cord and helix wire. |
| ***COVER*** | Black Corrugated synthetic rubber, weathering and abrasion resistant. |
| ***TEMPERATURE RANGE*** | -30°C to +100°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>Stainless Steel Barb (N7 |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| WME-16 | 1 (25mm) | 34 | 43 | 20 / 60 |
| WME-18 | 1 1/8 (28mm) | 38 | 43 | 20 / 60 |
| WME-20 | 1 1/4 (32mm) | 40 | 43 | 20 / 60 |
| WME-22 | 1 3/8 (35mm) | 43 | 43 | 20 / 60 |
| WME-24 | 1 1/2 (38mm) | 46 | 43 | 20 / 60 |
| WME-26 | 1 5/8 (41mm) | 49 | 43 | 20 / 60 |
| WME-28 | 1 3/4 (45mm) | 53 | 43 | 20 / 60 |
| WME-30 | 1 7/8 (48mm) | 56 | 43 | 20 / 60 |
| WME-32 | 2 (51mm) | 59 | 43 | 20 / 60 |
| WME-36 | 2 1/4 (57mm) | 67 | 43 | 20 / 60 |
| WME-38 | 2 3/8 (60mm) | 68 | 43 | 20 / 60 |
| WME-40 | 2 1/2 (63mm) | 72 | 43 | 20 / 60 |
| WME-44 | 2 3/4 (70mm) | 78 | 43 | 20 / 60 |
| WME-46 | 3 (76mm) | 85 | 43 | 20 / 60 |
| WME-56 | 3 1/2 (90mm) | 99 | 43 | 20 / 60 |

NON STOCKED ITEM

## MPH — Multi-purpose Hose



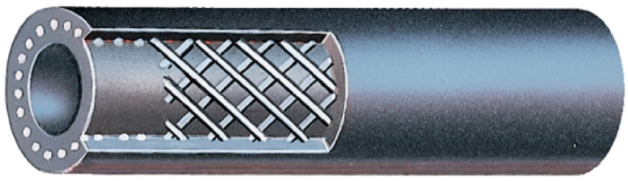
| | |
|---|---|
| ***RECOMMENDED FOR*** | General industrial application with frequent contact with oil or grease, this non-conductive extruded rubber hose is suitable for the transfer of water, air, oil and petroleum based products up to 30% aromatic content. The versatility of this hose makes it an excellent choice in a range of applications. |
| ***TUBE*** | Type P (EPDM). Black. |
| ***REINFORCEMENT*** | Synthetic, high tensile textile cord. |
| ***COVER*** | Type P (EPDM). Blue, Green or Yellow. All sizes through 1/2" are perforated. |
| ***TEMPERATURE RANGE*** | -40°C to +70°C continuous service. |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>Brass Barb (J10)<br>Stainless Steel Barb (N7) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| MPH-03 | 3/16 (5mm) | 11 | 300 | 100 |
| MPH-04 | 1/4 (6mm) | 13 | 300 | 100 |
| MPH-05 | 5/16 (8mm) | 15 | 300 | 100 |
| MPH-06 | 3/8 (10mm) | 17 | 300 | 100 |
| MPH-08 | 1/2 (12mm) | 20 | 300 | 100 |
| MPH-10 | 5/8 (16mm) | 25 | 300 | 100 |
| MPH-12 | 3/4 (20mm) | 29 | 300 | 100 |
| MPH-16 | 1 (25mm) | 35.5 | 300 | 60 |
| MPH-20 | 1-1/4 (32mm) | 44 | 300 | 60 |
| MPH-24 | 1-1/2 (38mm) | 54 | 300 | 60 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

**FUEL** | **Fuel Line**

Gates®



| | |
|---|---|
| ***RECOMMENDED FOR*** | Multi-purpose hose for use on return fuel lines, PCV and EEC systems, and for fuel return hose connections on diesel fuel injection systems. Approved for use with leaded and unleaded gasoline, diesel and gasoline blends of ethanol (E85), methanol and ethers (up to the legal limits allowed by the EPA). Spiral reinforced construction. Caution: Do not use for pressure lines on fuel injected engines or for cooling system applications. Use Barricade Fuel Injection hose for fuel injection applications. Intended for use with fuels where MTBE concentrations are no greater than 15% by volume. |
| ***TUBE*** | Black Nitrile. |
| ***REINFORCEMENT*** | Synthetic, textile reinforcement. |
| ***COVER*** | Black Nitrile. |
| ***TEMPERATURE RANGE*** | -40°C to +125°C. |
| ***COUPLING RECOMMENDATION*** | Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| 27000 | 1/8 (3.2mm) | 8 | 50 | 7.62 |
| 27001 | 3/16 (4.76mm) | 10 | 50 | 7.62 |
| 27002 | 1/4 (6mm) | 13 | 50 | 7.62 |
| 27003 | 5/16 (8mm) | 14 | 50 | 7.62 |
| 27004 | 3/8 (9.5mm) | 16 | 50 | 7.62 |
| 27006 | 1/2 (12.70mm) | 20 | 35 | 7.62 |

Meets Flame Resistance Acceptance Designation "MSHA 2G".

# Silicone Hose

**SILICONE** | **Silicone Heater Hose SAE 20R3**

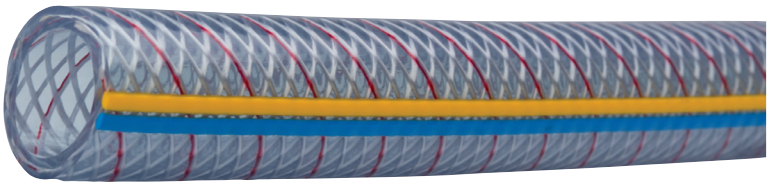


| | |
|---|---|
| ***RECOMMENDED FOR*** | Silicone Heater Hoses are constructed with polyester-reinforced silicone, making them extremely durable and suited for high-temperature applications such as radiators, heaters, and other coolant transfer hose uses. |
| ***TUBE*** | Red Silicone |
| ***REINFORCEMENT*** | Polyester textile reinforcement |
| ***COVER*** | Blue Silicone |
| ***TEMPERATURE RANGE*** | -53°C to +176°C |
| ***COUPLING RECOMMENDATION*** | Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| SILICONE-06 | 3/8 | 18 | 60 | 7.62 |
| SILICONE-08 | 1/2 | 21 | 60 | 7.62 |
| SILICONE-10 | 5/8 | 24 | 60 | 7.62 |
| SILICONE-12 | 3/4 | 27 | 50 | 7.62 |
| SILICONE-16 | 1 | 33 | 45 | 7.62 |

## PVC Hose

**CMP** | **Clear Braided Air Water PVC Hose**



| | |
|---|---|
| ***RECOMMENDED FOR*** | A Translucent multi purpose food contact hose. It meets AS2070 1999. Suitable for food contact, petroleum based products, air and water. Extremely flexible and kink resistant. |
| ***TUBE*** | Clear PVC. |
| ***REINFORCEMENT*** | Synthetic, textile reinforcement. |
| ***COVER*** | Clear PVC with Yellow and Blue Stripes. |
| ***TEMPERATURE RANGE*** | -40°C to +60°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| CMP-04 | 1/4 (6mm) | 10.2 | 800 | 20 / 100 |
| CMP-05 | 5/16 (8mm) | 12.4 | 800 | 20 / 100 |
| CMP-06 | 3/8 (10mm) | 15 | 800 | 20 / 80 |
| CMP-08 | 1/2 (12.5mm) | 18.1 | 800 | 20 / 100 |
| CMP-10 | 5/8 (16mm) | 22.8 | 800 | 20 / 100 |
| CMP-12 | 3/4 (20mm) | 27.6 | 800 | 20 / 100 |
| CMP-16 | 1 (25mm) | 33.4 | 800 | 20 / 50 |
| CMP-20 | 1 1/4 (31.5mm) | 40.9 | 700 | 20 / 60 |
| CMP-24 | 1 1/2 (38mm) | 49.8 | 700 | 20 / 40 |
| CMP-32 | 2 (50mm) | 64.2 | 524 | 20 / 40 |

## PLUTONE — Clear Suction/Return PVC Hose



| | |
|---|---|
| ***RECOMMENDED FOR*** | PVC food grade hose with a steel spiral reinforcement. Ideal for the discharge or suction of liquids and substances (except fatty foods) such as beverages, juices, wine, vinegar and spirits with a maximum alcohol content of 15%. |
| ***TUBE*** | Clear PVC. |
| ***REINFORCEMENT*** | Encapsulated steel wire helix. |
| ***COVER*** | Clear PVC. |
| ***TEMPERATURE RANGE*** | -10°C to +60°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| PLUTONE-04 | 1/4 (6mm) | 12 | 99 | 60 |
| PLUTONE-06 | 3/8 (10mm) | 16 | 99 | 60 |
| PLUTONE-08 | 1/2 (12mm) | 18 | 85 | 60 |
| PLUTONE-10 | 5/8 (16mm) | 22.4 | 85 | 60 |
| PLUTONE-12 | 3/4 (20mm) | 27 | 71 | 60 |
| PLUTONE-16 | 1 (25mm) | 33 | 71 | 60 |
| PLUTONE-20 | 1 1/4 (32mm) | 41 | 57 | 60 |
| PLUTONE-24 | 1 1/2 (38mm) | 47 | 57 | 30 |
| PLUTONE-28 | 1 3/4 (45mm) | 54.8 | 57 | 30 |
| PLUTONE-32 | 2 (50mm) | 60 | 57 | 30 |
| PLUTONE-40 | 2 1/2 (64mm) | 76 | 43 | 30 |
| PLUTONE-48 | 3 (76mm) | 89 | 43 | 30 |
| PLUTONE-64 | 4 (102mm) | 115 | 35 | 20 |
| PLUTONE-80 | 5 (127mm) | 144.4 | 18 | 20 |
| PLUTONE-96 | 6 (151mm) | 168.6 | 18 | 20 |

## AIR — Heavy Duty Air/Water PVC Hose



| | |
|---|---|
| ***RECOMMENDED FOR*** | Air/Water hose for heavy duty and general purpose applications. |
| ***TUBE*** | Black PVC. |
| ***REINFORCEMENT*** | Textile braiding.. |
| ***COVER*** | Yellow/Blue striped PVC. |
| ***TEMPERATURE RANGE*** | -5°C to +60°C |
| ***COUPLING RECOMMENDATION*** | Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| AIR-04 | 1/4 (6mm) | 11.6 | 230 | 20 / 100 |
| AIR-05 | 5/16 (8mm) | 14 | 230 | 20 / 100 |
| AIR-06 | 3/8 (10mm) | 16.9 | 230 | 20 / 100 |
| AIR-08 | 1/2 (12.5mm) | 18.9 | 230 | 20 / 100 |
| AIR-12 | 3/4 (20mm) | 27.9 | 230 | 20 / 100 |
| AIR-16 | 1 (25mm) | 34 | 230 | 20 / 100 |

## CVT — Clear Vinyl Tube



| | |
|---|---|
| ***RECOMMENDED FOR*** | For low pressure delivery applications including air, water, food and beverages. |
| ***TUBE*** | Clear PVC |
| ***REINFORCEMENT*** | - |
| ***COVER*** | Clear PVC |
| ***TEMPERATURE RANGE*** | -5°C to +60°C |
| ***COUPLING RECOMMENDATION*** | Suction Tails (B125)<br>Brass Barb (J10)<br>Stainless Steel Barb (N8) |

| Part # | Hose ID | Hose OD (MM) | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| CVT-02 | 1/8 (3mm) | 5 | 113 | 30 |
| CVT-04M | 4mm | 6 | 101 | 30 |
| CVT-03 | 3/16 (5mm) | 8 | 87 | 30 |
| CVT-04 | 1/4 (6mm) | 9 | 72 | 30 |
| CVT-05 | 5/16 (8mm) | 11 | 58 | 30 |
| CVT-06 | 3/8 (10mm) | 13 | 58 | 30 |
| CVT-08 | 1/2 (12.5mm) | 15.5 | 58 | 30 |
| CVT-10 | 5/8 (16mm) | 20 | 43 | 30 |
| CVT-12 | 3/4 (20mm) | 25.2 | 43 | 30 |
| CVT-16 | 1 (25mm) | 31 | 29 | 30 |
| CVT-20 | 1 1/4 (32mm) | 40 | 29 | 30 |
| CVT-24 | 1 1/2 (38mm) | 46 | 29 | 15 |
| CVT-32 | 2 (50mm) | 60 | 29 | 15 |

Some Longer length available, call to inquire.

## Nylon Tube

**AB** | **Air Brake Nylon Tube**



| | |
|---|---|
| ***RECOMMENDED FOR*** | Air brake tubing is made from poly-amide (nylon) to meet requirements of SAE J844 and DOT FMVSS 571.106 specifications. They are developed specifically for air brake applications in trucks and trailers. It can also be used in a wide range of instrumentation and secondary air systems. The tubes are rated up to 150 PSI working pressure @ 23°C and have a wide range of operating temperatures (-40°C to +93°C). They provide good resistance against ageing caused by heat and light. |
| ***TUBE*** | Opaque Nylon core. |
| ***REINFORCEMENT*** | Synthetic fibre braid |
| ***COVER*** | Black Nylon |
| ***TEMPERATURE RANGE*** | -40°C to +93°C |
| ***COUPLING RECOMMENDATION*** | DOT Quick-Fit (J4) |

Imperial

| Part # | Tube OD | Tube NOM ID | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| NT-02AB | 1/8 | .80" | 150 | 100 |
| NT-04AB | 1/4 | .170" | 150 | 100 |
| NT-05AB | 5/16 | .236" | 150 | 100 |
| NT-06AB | 3/8 | .251" | 150 | 100 |
| NT-08AB | 1/2 | .376" | 150 | 100 |
| NT-10AB | 5/8 | .441" | 150 | 100 |
| NT-12AB | 3/4 | .566" | 150 | 100 |

Metric

| Part # | Tube OD | Tube NOM ID | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| NT-04MAB | 4mm | 2.0mm | 150 | 100 |
| NT-06MAB | 6mm | 4.0mm | 150 | 100 |
| NT-08MAB | 8mm | 6.0mm | 150 | 100 |
| NT-10MAB | 10mm | 8.0mm | 150 | 100 |
| NT-12MAB | 12mm | 9.0mm | 150 | 100 |
| NT-15MAB | 15mm | 12mm | 150 | 100 |
| NT-16MAB | 16mm | 12mm | 150 | 100 |

Other colours are available on request.

**Flex** | **Nylon Tube**



| | |
|---|---|
| ***RECOMMENDED FOR*** | Pneumatic tubing is made from high quality nylon. This type is developed specifically for Pneumatic applications, thus can be used in a range of instrumentation. It has an excellent dimensional stability, is light in weight and saves a considerable weight over rubber hoses and steel lines. |
| ***TUBE*** | Black Nylon. |
| ***REINFORCEMENT*** | - . |
| ***COVER*** | Black Nylon. |
| ***TEMPERATURE RANGE*** | -40°C to +93°C |
| ***COUPLING RECOMMENDATION*** | DOT Quick-Fit (J4)<br>Quick Fit (J17) |

Imperial

| Part # | Tube OD | Tube NOM ID | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| NT-02 | 1/8 | .087" | 250psi | 100 |
| NT-03 | 3/16 | .125" | 250psi | 100 |
| NT-04 | 1/4 | .169" | 250psi | 100 |
| NT-05 | 5/16 | .214" | 250psi | 100 |
| NT-06 | 3/8 | .258" | 250psi | 100 |
| NT-08 | 1/2 | .347" | 250psi | 100 |

Metric

| Part # | Tube OD | Tube NOM ID | Max WP (PSI) | Roll Length (M) |
|---|---|---|---|---|
| NT-04M | 4mm | 2.7mm | 290 | 100 |
| NT-05M | 5mm | 3.3mm | 290 | 100 |
| NT-06M | 6mm | 4.0mm | 290 | 100 |
| NT-08M | 8mm | 5.2mm | 290 | 100 |
| NT-10M | 10mm | 6.6mm | 290 | 100 |
| NT-12M | 12mm | 8.0mm | 290 | 100 |

Other colours are available on request

# Industrial Hose/Tube





(08) 9451 2204

# J - Brass

## Contents

DOT Coupling . . . . . J2
DOT Quick-Fit . . . . . J4
Hose Barb . . . . . J10
Threaded Adaptor . . . . . J13
Push Fit . . . . . J17

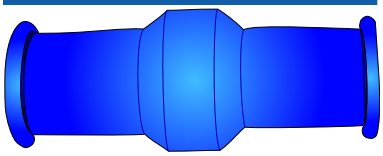
## DOT Coupling

### AB-Cap — Airbrake Cap (Suit Male Adaptor) W/Chain



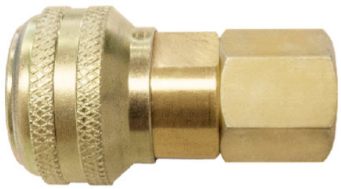
| PartNumber |
|---|
| 33-CA93-81 |

### AB-Cover — Protective Cover



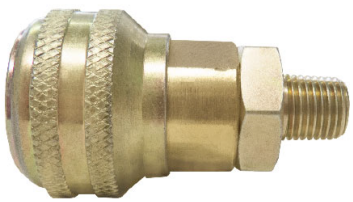
| PartNumber |
|---|
| 33-CA93-COVER |

### AB-F-F — Airbrake Female Coupling X Female NPT



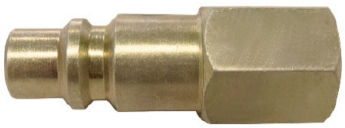
| Part Number | NPT F | Sealing |
|---|---|---|
| 33-CA93-35 | 1/2 | Yes |
| 33-CA93-87 | 1/2 | No |

### AB-F-M — Airbrake Female Coupling X Male NPT



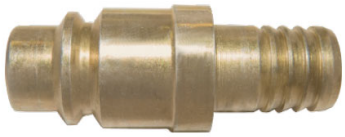
| Part Number | NPT M | Sealing |
|---|---|---|
| 33-CA93-32 | 1/2 | Yes |
| 33-CA93-85 | 1/2 | No |

## AB-M-F Airbrake Male Adaptor X Female NPT



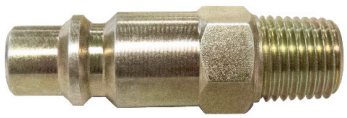
| Part Number | NPT F | Sealing |
|---|---|---|
| 33-CA93-23 | 1/2 | No |

## AB-M-H Airbrake Male Adaptor X Hose Barb



| Part Number | Hose ID | Sealing |
|---|---|---|
| 33-CA93-08 | 3/8 | No |
| 33-CA93-14 | 1/2 | No |

## AB-M-M Airbrake Male Adaptor X Male NPT



| Part Number | NPT M | Sealing |
|---|---|---|
| 33-CA93-18 | 1/4 | No |
| 33-CA93-19 | 3/8 | No |
| 33-CA93-93 | 1/2 | Yes |
| 33-CA93-20 | 1/2 | No |

## DOT Quick-Fit

### 1862 Imperial Quick-Fit Union Airbrake



| Part Number | Tube OD | Tube OD |
|---|---|---|
| 35-1862-2.5 | 5/32 | 5/32 |
| 35-1862-4 | 1/4 | 1/4 |
| 35-1862-6 | 3/8 | 3/8 |
| 35-1862-8 | 1/2 | 1/2 |
| 35-1862-10 | 5/8 | 5/8 |

### 1864 Imperial Quick-Fit Tee Airbrake



| Part Number | Tube OD | Tube OD | Tube OD |
|---|---|---|---|
| 35-1864-4 | 1/4 | 1/4 | 3/8 |
| 35-1864-6 | 3/8 | 3/8 | 3/8 |
| 35-1864-8 | 1/2 | 1/2 | 1/2 |
| 35-1864-10 | 5/8 | 5/8 | 5/8 |

### 1865 Imperial Quick-Fit Elbow 90° Airbrake



| Part Number | Tube OD | Tube OD |
|---|---|---|
| 35-1865-4 | 1/4 | 1/4 |
| 35-1865-6 | 3/8 | 3/8 |
| 35-1865-8 | 1/2 | 1/2 |

### 1866 NPT Female X Imperial Quick-Fit Airbrake



| Part Number | NPT F | Tube OD |
|---|---|---|
| 35-1866-4 | 1/8 | 1/4 |
| 35-1866-6 | 1/4 | 3/8 |
| 35-1866-6-6 | 3/8 | 3/8 |
| 35-1866-8 | 3/8 | 1/2 |
| 35-1866-8-8 | 1/2 | 1/2 |

## 1868 NPT Male X Imperial Quick-Fit Airbrake



| Part Number | NPT M | Tube OD |
|---|---|---|
| 35-1868-2.5-1 | 1/16 | 5/32 |
| 35-1868-2.5 | 1/8 | 5/32 |
| 35-1868-4 | 1/8 | 1/4 |
| 35-1868-4-4 | 1/4 | 1/4 |
| 35-1868-4-6 | 3/8 | 1/4 |
| 35-1868-4-M12 | M12 | 1/4 |
| 35-1868-6 | 1/4 | 3/8 |
| 35-1868-6-2 | 1/8 | 3/8 |
| 35-1868-6-6 | 3/8 | 3/8 |
| 35-1868-6-8 | 1/2 | 3/8 |
| 35-1868-8 | 3/8 | 1/2 |
| 35-1868-8-4 | 1/4 | 1/2 |
| 35-1868-8-8 | 1/2 | 1/2 |

## 1869-S NPT Male Swivel X Imperial Quick-Fit Elbow 90° Airbrake



| Part Number | NPT M/S | Tube OD |
|---|---|---|
| 35-1869-4-4S | 1/4 | 1/4 |
| 35-1869-4-6S | 3/8 | 1/4 |
| 35-1869-4S | 1/8 | 1/4 |
| 35-1869-6-2S | 1/8 | 3/8 |
| 35-1869-6-6S | 3/8 | 3/8 |
| 35-1869-6-8S | 1/2 | 3/8 |
| 35-1869-6S | 1/4 | 3/8 |
| 35-1869-8-4S | 1/4 | 1/2 |
| 35-1869-8-8S | 1/2 | 1/2 |
| 35-1869-8S | 3/8 | 1/2 |
| 35-1869-10S | 1/2 | 5/8 |

## 1869 NPT Male X Imperial Quick-Fit Elbow 90° Airbrake



| Part Number | NPT M | Tube OD |
|---|---|---|
| 35-1869-2.5 | 1/8 | 5/32 |
| 35-1869-4-4 | 1/4 | 1/4 |

## 1870 NPT Female X Imperial Quick-Fit Elbow 90° Airbrake



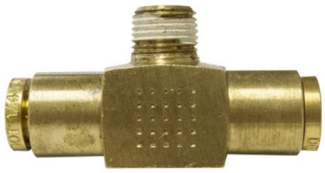
| Part # | NPT F | Tube OD |
|---|---|---|
| 35-1870-4 | 1/8 | 1/4 |
| 35-1870-4-4 | 1/4 | 1/4 |
| 35-1870-6 | 1/4 | 3/8 |
| 35-1870-6-6 | 3/8 | 3/8 |
| 35-1870-8 | 3/8 | 1/2 |
| 35-1870-8-8 | 1/2 | 1/2 |

## 1871-S NPT Male Swivel (Run) X Imperial Quick-Fit Tee Airbrake



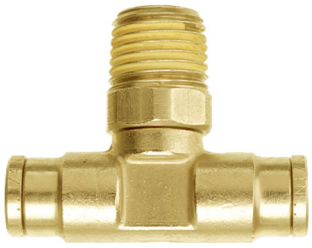
| Part # | NPT M/S | Tube OD | Tube OD |
|---|---|---|---|
| 35-1871-4S | 1/8 | 1/4 | 1/4 |
| 35-1871-6S | 1/4 | 3/8 | 3/8 |
| 35-1871-6-6S | 3/8 | 3/8 | 3/8 |
| 35-1871-8S | 3/8 | 1/2 | 1/2 |
| 35-1871-8-8S | 1/2 | 1/2 | 1/2 |

## 1872 NPT Male (Leg) X Imperial Quick-Fit Tee Airbrake



| Part # | NPT M | Tube OD | Tube OD |
|---|---|---|---|
| 35-1872-4-4 | 1/4 | 1/4 | 1/4 |

## 1872-S NPT Male Swivel (Leg) X Imperial Quick-Fit Tee Airbrake



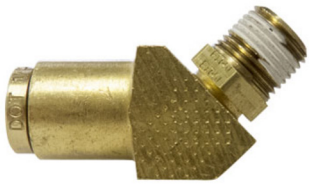
| Part # | NPT M/S | Tube OD | Tube OD |
|---|---|---|---|
| 35-1872-4S | 1/8 | 1/4 | 1/4 |
| 35-1872-4-4S | 1/4 | 1/4 | 1/4 |
| 35-1872-6S | 1/4 | 3/8 | 3/8 |
| 35-1872-6-6S | 3/8 | 3/8 | 3/8 |
| 35-1872-8S | 3/8 | 1/2 | 1/2 |
| 35-1872-8-8S | 1/2 | 1/2 | 1/2 |

## 1874 Imperial Quick-Fit Bulkhead X Imperial Quick-Fit Airbrake



| Part # | Tube OD | Tube OD |
|---|---|---|
| 35-1874-4-4 | 1/4 | 1/4 |

## 1880 NPT Male X Imperial Quick-Fit Elbow 45° Airbrake



| Part # | NPT M | Tube OD |
|---|---|---|
| 35-1880-6-6 | 3/8 | 3/8 |

## M1862 Metric Quick-Fit Union Airbrake



| Part # | Tube OD | Tube OD |
|---|---|---|
| 35-M1862-04 | 4mm | 4mm |
| 35-M1862-06 | 6mm | 6mm |
| 35-M1862-08 | 8mm | 8mm |
| 35-M1862-10 | 10mm | 10mm |
| 35-M1862-12 | 12mm | 12mm |
| 35-M1862-16 | 16mm | 16mm |

## M1864 Metric Quick-Fit Tee Airbrake



| Part # | Tube OD | Tube OD | Tube OD |
|---|---|---|---|
| 35-M1864-04 | 4mm | 4mm | 4mm |
| 35-M1864-06 | 6mm | 6mm | 6mm |
| 35-M1864-08 | 8mm | 8mm | 8mm |
| 35-M1864-10 | 10mm | 10mm | 10mm |
| 35-M1864-12 | 12mm | 12mm | 12mm |

## M1865 Metric Quick-Fit Elbow 90° Airbrake



| Part # | Tube OD | Tube OD |
|---|---|---|
| 35-M1865-04 | 4mm | 4mm |
| 35-M1865-06 | 6mm | 6mm |
| 35-M1865-08 | 8mm | 8mm |
| 35-M1865-10 | 10mm | 10mm |
| 35-M1865-12 | 12mm | 12mm |

## M1868 NPT Male X Metric Quick-Fit Airbrake



| Part # | NPT M | Tube OD |
|---|---|---|
| 35-M1868-04-2 | 1/8 | 4mm |
| 35-M1868-06-2 | 1/8 | 6mm |
| 35-M1868-06-4 | 1/4 | 6mm |
| 35-M1868-08-2 | 1/8 | 8mm |
| 35-M1868-08-4 | 1/4 | 8mm |
| 35-M1868-08-6 | 3/8 | 8mm |
| 35-M1868-10-4 | 1/4 | 10mm |
| 35-M1868-10-6 | 3/8 | 10mm |
| 35-M1868-10-8 | 1/2 | 10mm |
| 35-M1868-12-4 | 1/4 | 12mm |
| 35-M1868-12-6 | 3/8 | 12mm |
| 35-M1868-12-8 | 1/2 | 12mm |

## M1868-M Metric Stud X Metric Quick-Fit Airbrake



| Part # | Metric Stud M | Tube OD |
|---|---|---|
| 35-M1868-12M22 | M22 | 12mm |

## M1869-S NPT Male Swivel X Metric Quick-Fit Elbow 90° Airbrake



| Part # | NPT M/S | Tube OD |
|---|---|---|
| 35-M1869-06-2S | 1/8 | 6mm |
| 35-M1869-06-4S | 1/4 | 6mm |
| 35-M1869-08-2S | 1/8 | 8mm |
| 35-M1869-08-4S | 1/4 | 8mm |
| 35-M1869-10-4S | 1/4 | 10mm |
| 35-M1869-12-4S | 1/4 | 12mm |
| 35-M1869-12-6S | 3/8 | 12mm |

## M1869 NPT Male X Metric Quick-Fit Elbow 90° Airbrake



| Part # | NPT M | Tube OD |
|---|---|---|
| 35-M1869-06-4 | 1/4 | 6mm |

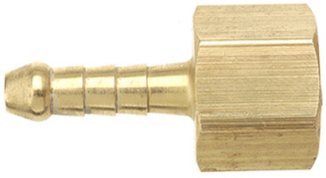
## M1874 Metric Quick-Fit Bulkhead Airbrake



| Part # | Tube OD | Tube OD BH |
|---|---|---|
| 35-M1874-06 | 6mm | 6mm |

## Hose Barb

### PBF-B — BSPT Female X Hose Barb (Brass)



| Part # | BSPT F | Hose ID |
|---|---|---|
| PBF-04-03B | 1/4 | 3/16 |
| PBF-04-04B | 1/4 | 1/4 |
| PBF-04-05B | 1/4 | 5/16 |
| PBF-04-06B | 1/4 | 3/8 |
| PBF-04-08B | 1/4 | 1/2 |
| PBF-06-06B | 3/8 | 3/8 |
| PBF-08-08B | 1/2 | 1/2 |

### PHXH-B — Hose Barb X Hose Barb Joiner (Brass)



| Part # | Hose ID | Hose ID |
|---|---|---|
| PHXH-03-03B | 3/16 | 3/16 |
| PHXH-04-04B | 1/4 | 1/4 |
| PHXH-05-05B | 5/16 | 5/16 |
| PHXH-06-06B | 3/8 | 3/8 |
| PHXH-08-08B | 1/2 | 1/2 |
| PHXH-08-12B | 1/2 | 3/4 |
| PHXH-10-10B | 5/8 | 5/8 |
| PHXH-10-12B | 5/8 | 3/4 |
| PHXH-12-12B | 3/4 | 3/4 |
| PHXH-16-16B | 1 | 1 |

## PBM-B — BSPT Male X Hose Barb (Brass)



| Part # | BSPT M | Hose ID |
|---|---|---|
| PBM-02-02B | 1/8 | 1/8 |
| PBM-02-03B | 1/8 | 3/16 |
| PBM-02-04B | 1/8 | 1/4 |
| PBM-02-05B | 1/8 | 5/16 |
| PBM-02-06B | 1/8 | 3/8 |
| PBM-04-03B | 1/4 | 3/16 |
| PBM-04-04B | 1/4 | 1/4 |
| PBM-04-05B | 1/4 | 5/16 |
| PBM-04-06B | 1/4 | 3/8 |
| PBM-04-08B | 1/4 | 1/2 |
| PBM-06-04B | 3/8 | 1/4 |
| PBM-06-05B | 3/8 | 5/16 |
| PBM-06-06B | 3/8 | 3/8 |
| PBM-06-08B | 3/8 | 1/2 |
| PBM-06-10B | 3/8 | 5/8 |
| PBM-08-06B | 1/2 | 3/8 |
| PBM-08-08B | 1/2 | 1/2 |
| PBM-08-10B | 1/2 | 5/8 |
| PBM-08-12B | 1/2 | 3/4 |
| PBM-12-08B | 3/4 | 1/2 |
| PBM-12-12B | 3/4 | 3/4 |
| PBM-12-16B | 3/4 | 1 |
| PBM-16-16B | 1 | 1 |

## PBM9C-B — BSPT Male X Hose Barb 90° Elbow (Brass)



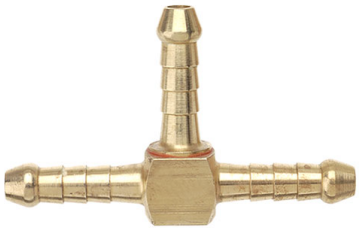
| Part # | BSPT M | Hose ID |
|---|---|---|
| PBM9C-02-03B | 1/8 | 3/16 |
| PBM9C-02-04B | 1/8 | 1/4 |
| PBM9C-02-06B | 1/8 | 3/8 |
| PBM9C-04-04B | 1/4 | 1/4 |
| PBM9C-04-05B | 1/4 | 5/16 |
| PBM9C-04-06B | 1/4 | 3/8 |
| PBM9C-04-08B | 1/4 | 1/2 |
| PBM9C-06-06B | 3/8 | 3/8 |
| PBM9C-06-08B | 3/8 | 1/2 |
| PBM9C-06-10B | 3/8 | 5/8 |
| PBM9C-08-06B | 1/2 | 3/8 |
| PBM9C-08-08B | 1/2 | 1/2 |
| PBM9C-08-12B | 1/2 | 3/4 |
| PBM9C-12-12B | 3/4 | 3/4 |

## PH9XH-B — Hose Barb X Hose Barb 90° Elbow (Brass)



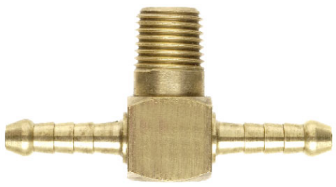
| Part # | Hose ID | Hose ID |
|---|---|---|
| PH9XH-08-08B | 1/2 | 1/2 |
| PH9XH-12-12B | 3/4 | 3/4 |

## PH3XH-B — Hose Barb Tee (Brass)



| Part # | Hose ID | Hose ID | Hose ID |
|---|---|---|---|
| PH3XH-03-03-03B | 3/16 | 3/16 | 3/16 |
| PH3XH-04-04-04B | 1/4 | 1/4 | 1/4 |
| PH3XH-05-05-05B | 5/16 | 5/16 | 5/16 |
| PH3XH-06-06-06B | 3/8 | 3/8 | 3/8 |
| PH3XH-08-08-08B | 1/2 | 1/2 | 1/2 |
| PH3XH-10-10-10B | 5/8 | 5/8 | 5/8 |
| PH3XH-12-12-12 | 3/4 | 3/4 | 3/4 |

## PBH3XHML-B — BSPT Male (Leg) X Hose Barb X Hose Barb Tee(Brass)



| Part # | BSPT M | Hose ID | Hose ID |
|---|---|---|---|
| PBH3XHML-08-08-08B | 1/2 | 1/2 | 1/2 |

# Threaded Adaptor

## B1B-B — BSPT Male X BSPT Female Reducing Bush (Brass)



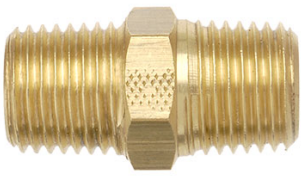
| Part # | BSPT M | BSPT F |
|---|---|---|
| B1B-04-02B | 1/4 | 1/8 |
| B1B-06-02B | 3/8 | 1/8 |
| B1B-06-04B | 3/8 | 1/4 |
| B1B-08-04B | 1/2 | 1/4 |
| B1B-08-06B | 1/2 | 3/8 |
| B1B-12-04B | 3/4 | 1/4 |
| B1B-12-08B | 3/4 | 1/2 |
| B1B-16-08B | 1 | 1/2 |
| B1B-16-12B | 1 | 3/4 |

## B1F-B — BSPT Female X BSPT Female Socket(Brass)



| Part # | BSPT F | BSPT F |
|---|---|---|
| B1F-02-02B | 1/8 | 1/8 |
| B1F-04-04B | 1/4 | 1/4 |
| B1F-06-06B | 3/8 | 3/8 |
| B1F-08-08B | 1/2 | 1/2 |
| B1F-12-12B | 3/4 | 3/4 |
| B1F-16-16B | 1 | 1 |

## B1M-B — BSPT Male X BSPT Male Nipple(Brass)



| Part # | BSPT M | BSPT M |
|---|---|---|
| B1M-02-02B | 1/8 | 1/8 |
| B1M-02-04B | 1/8 | 1/4 |
| B1M-04-04B | 1/4 | 1/4 |
| B1M-04-06B | 1/4 | 3/8 |
| B1M-04-08B | 1/4 | 1/2 |
| B1M-06-06B | 3/8 | 3/8 |
| B1M-06-08B | 3/8 | 1/2 |
| B1M-08-08B | 1/2 | 1/2 |
| B1M-08-12B | 1/2 | 3/4 |
| B1M-12-12B | 3/4 | 3/4 |
| B1M-16-16B | 1 | 1 |

## B1MF-B — BSPT Male X BSPT Female Adaptor(Brass)



| Part # | BSPT F | BSPT M |
|---|---|---|
| B1MF-02-02B | 1/8 | 1/8 |
| B1MF-02-04B | 1/8 | 1/4 |
| B1MF-04-04B | 1/4 | 1/4 |
| B1MF-04-06B | 1/4 | 3/8 |
| B1MF-04-08B | 1/4 | 1/2 |
| B1MF-06-06B | 3/8 | 3/8 |
| B1MF-06-08B | 3/8 | 1/2 |
| B1MF-08-08B | 1/2 | 1/2 |
| B1MF-08-12B | 1/2 | 3/4 |

## MSB10MF-B — Metric Stud X BSPT Female BulkHead(Brass)



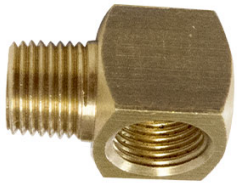
| Part # | Metric M | BSPT F |
|---|---|---|
| MSB10MF-16M-02B | M16X1.5 | 1/8 |
| MSB10MF-20M-04B | M20X1.5 | 1/4 |
| MSB10MF-26M-06B | M26X1.5 | 3/8 |
| MSB10MF-28M-08B | M28X1.5 | 1/2 |

## B9F-B — BSPT Female X BSPT Female 90°(Brass)



| Part # | BSPT F | BSPT F |
|---|---|---|
| B9F-02-02B | 1/8 | 1/8 |
| B9F-04-04B | 1/4 | 1/4 |
| B9F-06-06B | 3/8 | 3/8 |
| B9F-08-08B | 1/2 | 1/2 |
| B9F-12-12B | 3/4 | 3/4 |

## B9MF-B — BSPT Male X BSPT Female 90° (Brass)



| Part # | BSPT M | BSPT F |
|---|---|---|
| B9MF-02-02B | 1/8 | 1/8 |
| B9MF-04-04B | 1/4 | 1/4 |

## B9MFL-B — BSPT Male X BSPT Female 90°(Long)(Brass)



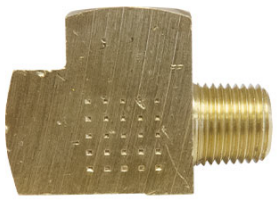
| Part # | BSPT M | BSPT F |
|---|---|---|
| B9MFL-06-06B | 3/8 | 3/8 |
| B9MFL-08-08B | 1/2 | 1/2 |
| B9MFL-12-12B | 3/4 | 3/4 |

## B3F-B — BSPT Female Tee(Brass)



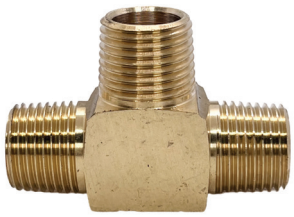
| Part # | BSPT F | BSPT F | BSPT F |
|---|---|---|---|
| B3F-02-02-02B | 1/8 | 1/8 | 1/8 |
| B3F-04-04-04B | 1/4 | 1/4 | 1/4 |
| B3F-06-06-06B | 3/8 | 3/8 | 3/8 |
| B3F-08-08-08B | 1/2 | 1/2 | 1/2 |
| B3F-12-12-12B | 3/4 | 3/4 | 3/4 |
| B3F-16-16-16B | 1 | 1 | 1 |

## B3FMR-B — BSPT Female X BSPT Female X BSPT Male(Run) Tee



| Part # | BSPT F | BSPT F | BSPT M |
|---|---|---|---|
| B3FMR-06-06-06B | 3/8 | 3/8 | 3/8 |

## B3M-B — BSPT Male X BSPT Male X BSPT Male Tee



| Part # | BSPT M | BSPT M | BSPT M |
|---|---|---|---|
| B3M-08-08-08B | 1/2 | 1/2 | 1/2 |

## BP-B — BSPT Plug(Brass)



| Part # | BSPT M |
|---|---|
| BP-02B | 1/8 |
| BP-04B | 1/4 |
| BP-06B | 3/8 |
| BP-08B | 1/2 |
| BP-12B | 3/4 |
| BP-16B | 1 |

## S — BSPT Male X Pneumatic Silencer - Flat(Brass)



| Part # | BSPT M |
|---|---|
| 01-S02 | 1/8 |
| 01-S04 | 1/4 |
| 01-S08 | 3/8 |
| 01-S16 | 1/2 |

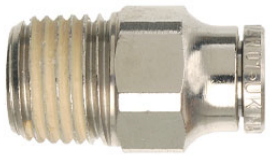
## SM — BSPT Male X Pneumatic Silencer - Conical(Brass)



| Part # | BSPT M |
|---|---|
| 01-SM02 | 3/4 |
| 01-SM08 | 1 |

# Push Fit

## NP300 BSP Male X Imperial Push Fit Nickel Plated



| Part # | BSPT M | Tube OD |
|---|---|---|
| 39-NP.302 | 1/8 | 3/16 |
| 39-NP.303 | 1/4 | 3/16 |
| 39-NP.304 | 1/8 | 1/4 |
| 39-NP.305 | 1/4 | 1/4 |
| 39-NP.308 | 1/4 | 5/16 |
| 39-NP.311 | 1/8 | 3/8 |
| 39-NP.312 | 1/4 | 3/8 |
| 39-NP.313 | 3/8 | 3/8 |
| 39-NP.315 | 1/4 | 1/2 |
| 39-NP.316 | 3/8 | 1/2 |
| 39-NP.317 | 1/2 | 1/2 |

## NP400 Imperial Push Fit Joiner Nickel Plated



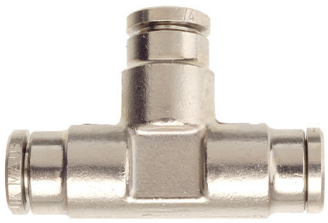
| Part # | Tube OD | Tube OD |
|---|---|---|
| 39-NP.401 | 1/8 | 1/8 |
| 39-NP.402 | 3/16 | 3/16 |
| 39-NP.403 | 1/4 | 1/4 |
| 39-NP.404 | 5/16 | 5/16 |
| 39-NP.405 | 3/8 | 3/8 |
| 39-NP.406 | 1/2 | 1/2 |

## NP500 BSP Male Swivel X Imperial Push Fit 90° Elbow Nickel Plated



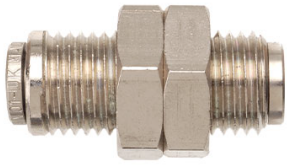
| Part # | BSPT M/S | Tube OD |
|---|---|---|
| 39-NP.502 | 1/8 | 3/16 |
| 39-NP.503 | 1/4 | 3/16 |
| 39-NP.504 | 1/8 | 1/4 |
| 39-NP.505 | 1/4 | 1/4 |
| 39-NP.507 | 1/8 | 5/16 |
| 39-NP.508 | 1/4 | 5/16 |
| 39-NP.512 | 1/4 | 3/8 |
| 39-NP.513 | 3/8 | 3/8 |
| 39-NP.516 | 3/8 | 1/2 |
| 39-NP.517 | 1/2 | 1/2 |

## NP1400 Imperial Push Fit Tee Nickel Plated



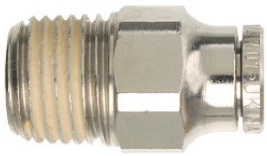
| Part # | Tube OD | Tube OD | Tube OD |
|---|---|---|---|
| 39-NP1401 | 1/8 | 1/8 | 1/8 |
| 39-NP1402 | 3/16 | 3/16 | 3/16 |
| 39-NP1403 | 1/4 | 1/4 | 1/4 |
| 39-NP1404 | 5/16 | 5/16 | 5/16 |
| 39-NP1405 | 3/8 | 3/8 | 3/8 |
| 39-NP1406 | 1/2 | 1/2 | 1/2 |

## NP3100 Imperial Push Fit Bulkhead Nickel Plated



| Part # | Tube OD | Tube OD |
|---|---|---|
| 39-NP3103 | 1/4 | 1/4 |

## NPM300 BSP Male X Metric Push Fit Nickel Plated



| Part # | BSPT M | Tube OD |
|---|---|---|
| 39-NPM.302 | 1/8 | 4mm |
| 39-NPM.304 | 1/8 | 6mm |
| 39-NPM.305 | 1/4 | 6mm |
| 39-NPM.307 | 1/8 | 8mm |
| 39-NPM.308 | 1/4 | 8mm |
| 39-NPM.311 | 1/8 | 10mm |
| 39-NPM.312 | 1/4 | 10mm |
| 39-NPM.313 | 3/8 | 10mm |
| 39-NPM.314 | 1/2 | 10mm |
| 39-NPM.315 | 1/4 | 12mm |
| 39-NPM.316 | 3/8 | 12mm |
| 39-NPM.317 | 1/2 | 12mm |

## NPM400 Metric Push Fit Union Nickel Plated



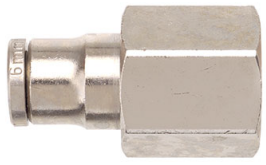
| Part # | TUBE | TUBE |
|---|---|---|
| 39-NPM.402 | 4mm | 4mm |
| 39-NPM.403 | 6mm | 6mm |
| 39-NPM.404 | 8mm | 8mm |
| 39-NPM.405 | 10mm | 10mm |
| 39-NPM.406 | 12mm | 12mm |

## NPM500 BSP Male Swivel X Metric Push Fit 90° Elbow Nickel Plated



| Part # | BSPT M/S | TUBE |
|---|---|---|
| 39-NPM.502 | 1/8 | 4mm |
| 39-NPM.504 | 1/8 | 6mm |
| 39-NPM.505 | 1/4 | 6mm |
| 39-NPM.507 | 1/8 | 8mm |
| 39-NPM.508 | 1/4 | 8mm |
| 39-NPM.512 | 1/4 | 10mm |
| 39-NPM.513 | 3/8 | 10mm |
| 39-NPM.514 | 1/2 | 10mm |
| 39-NPM.515 | 1/4 | 12mm |
| 39-NPM.516 | 3/8 | 12mm |
| 39-NPM.517 | 1/2 | 12mm |

## NPM1000 BSP Female X Metric Push Fit Nickel Plated



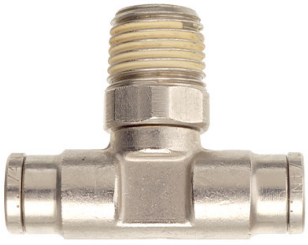
| Part # | BSPT F | TUBE |
|---|---|---|
| 39-NPM1005 | 1/4 | 6mm |
| 39-NPM1008 | 1/4 | 8mm |

## NPM1100 Metric Push Fit 90° Elbow Nickel Plated



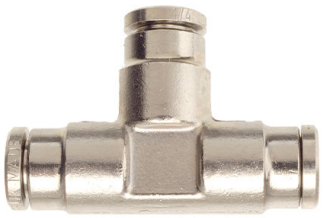
| Part # | TUBE | TUBE |
|---|---|---|
| 39-NPM1104 | 8mm | 8mm |
| 39-NPM1105 | 10mm | 10mm |

## NPM1200 BSP Male Swivel (Leg) X Metric Push Fit Tee Nickel Plated



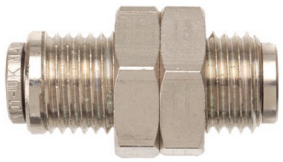
| Part # | BSPT M/S | TUBE | TUBE |
|---|---|---|---|
| 39-NPM1207 | 1/4 | 8mm | 8mm |

## NPM1400 Metric Push Fit Tee Nickel Plated



| Part # | TUBE | TUBE | TUBE |
|---|---|---|---|
| 39-NPM1402 | 4mm | 4mm | 4mm |
| 39-NPM1403 | 6mm | 6mm | 6mm |
| 39-NPM1404 | 8mm | 8mm | 8mm |
| 39-NPM1405 | 10mm | 10mm | 10mm |
| 39-NPM1406 | 12mm | 12mm | 12mm |

## NPM3100 Metric Push Fit Bulkhead Nickel Plated



| Part # | TUBE | TUBE |
|---|---|---|
| 39-NPM3103 | 6mm | 6mm |

# K - Airline Couplings

## Contents

Nitto - HI-CUPLA . . . . . K2

## Nitto - HI-CUPLA

### PF — Male Hi-Flow Nitto X BSPT Female



| Part # | NPT F |
|---|---|
| 20PF | 1/4 |
| 30PF | 3/8 |
| 40PF | 1/2 |

### PH — Male Hi-Flow Nitto X Hose Barb



| Part # | Hose ID |
|---|---|
| 20PH | 1/4 |
| 30PH | 3/8 |
| 40PH | 1/2 |

### PM — Male Hi-Flow Nitto X BSPT Male



| Part # | BSPT M |
|---|---|
| 20PM | 1/4 |
| 30PM | 3/8 |
| 40PM | 1/2 |

### SF — Female Hi-Flow Nitto X BSPT Female



| Part # | BSPT F |
|---|---|
| 20SF | 1/4 |
| 30SF | 3/8 |
| 40SF | 1/2 |

## SH — Female Hi-Flow Nitto X Hose Barb



| Part # | Hose ID |
|---|---|
| 20SH | 1/4 |
| 30SH | 3/8 |
| 40SH | 1/2 |

## SM — Female Hi-Flow Nitto X BSPT Male



| Part # | BSPT M |
|---|---|
| 20SM | 1/4 |
| 30SM | 3/8 |
| 40SM | 1/2 |

## L200-SF — Female Hi-Flow Nitto Lock HI-CUPLA X BSPT Female



| Part # | BSPT F |
|---|---|
| L200-20SF | 1/4 |
| L200-30SF | 3/8 |
| L200-40SF | 1/2 |

## L200-SH — Female Hi-Flow Nitto Lock HI-CUPLA X Hose Barb



| Part # | Hose ID |
|---|---|
| L200-20SH | 1/4 |
| L-30SH | 3/8 |
| L-40SH | 1/2 |

## L200-SM — Female Hi-Flow Nitto Lock HI-CUPLA X BSPT Male



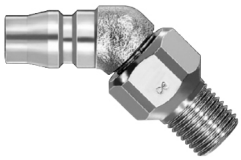
| Part # | BSPT M |
|---|---|
| L200-20SM | 1/4 |
| L200-30SM | 3/8 |
| L200-40SM | 1/2 |

## RL-PF — Male (Rotary) Hi-Flow Nitto X BSPT Female



| Part # | BSPT F |
|---|---|
| RL-20PFF | 1/4 |
| RL-30PF | 3/8 |
| RL-40PF | 1/2 |

## RL-PM — Male (Rotary) Hi-Flow Nitto X BSPT Male



| Part # | BSPT M |
|---|---|
| RL-20PM | 1/4 |
| RL-30PM | 3/8 |
| RL-40PM | 1/2 |

# L - Camlocks

## Contents

Camlocks . . . . . L2

## Camlocks

### ALC-A — Aluminium Camlock Type A - Male Camlock X BSPT Female



| Part # | Camlock M | BSPT F |
|---|---|---|
| ALC-025-A | 1 | 1 |
| ALC-032-A | 1 1/4 | 1 1/4 |
| ALC-038-A | 1 1/2 | 1 1/2 |
| ALC-050-A | 2 | 2 |
| ALC-075-A | 3 | 3 |

### ALC-B — Aluminium Camlock Type B - Female Camlock X BSPT Male



| Part # | Camlock F | BSPT M |
|---|---|---|
| ALC-025-B | 1 | 1 |
| ALC-032-B | 1 1/4 | 1 1/4 |
| ALC-038-B | 1 1/2 | 1 1/2 |
| ALC-050-B | 2 | 2 |
| ALC-075-B | 3 | 3 |

### ALC-C — Aluminium Camlock Type C - Female Camlock X Hose Tail



| Part # | Camlock F | Hose ID |
|---|---|---|
| ALC-025-C | 1 | 1 |
| ALC-032-C | 1 1/4 | 1 1/4 |
| ALC-038-C | 1 1/2 | 1 1/2 |
| ALC-050-C | 2 | 2 |
| ALC-075-C | 3 | 3 |
| ALC-150-C | 6 | 6 |

### ALC-D — Aluminium Camlock Type D - Female Camlock X BSPT Female



| Part # | Camlock F | BSPT F |
|---|---|---|
| ALC-025-D | 1 | 1 |
| ALC-032-D | 1 1/4 | 1 1/4 |
| ALC-038-D | 1 1/2 | 1 1/2 |
| ALC-050-D | 2 | 2 |
| ALC-075-D | 3 | 3 |

## ALC-E — Aluminium Camlock Type E - Male Camlock X Hose Tail



| Part # | Camlock M | Hose ID |
|---|---|---|
| ALC-025-E | 1 | 1 |
| ALC-032-E | 1 1/4 | 1 1/4 |
| ALC-038-E | 1 1/2 | 1 1/2 |
| ALC-050-E | 2 | 2 |
| ALC-075-E | 3 | 3 |

## ALC-F — Aluminium Camlock Type F - Male Camlock X BSPT Male



| Part # | Camlock M | BSPT M |
|---|---|---|
| ALC-025-F | 1 | 1 |
| ALC-032-F | 1 1/4 | 1 1/4 |
| ALC-038-F | 1 1/2 | 1 1/2 |
| ALC-050-F | 2 | 2 |
| ALC-075-F | 3 | 3 |

## ALC-DC — Aluminium Camlock Type DC - Female Camlock Cap



| Part # | Camlock F |
|---|---|
| ALC-025-DC | 1 |
| ALC-032-DC | 1 1/4 |
| ALC-038-DC | 1 1/2 |
| ALC-050-DC | 2 |
| ALC-075-DC | 3 |

## ALC-DP — Aluminium Camlock Type DP - Male Camlock Plug



| Part # | Camlock M |
|---|---|
| ALC-025-DP | 1 |
| ALC-032-DP | 1 1/4 |
| ALC-038-DP | 1 1/2 |
| ALC-050-DP | 2 |
| ALC-075-DP | 3 |

# Camlocks



# M - Claw Couplings

## Contents

Minsup Type A . . . . . M2

## Minsup Type A

### MINSUP-A-F — MINSUP Type A X BSP Female



| Part # | BSP F |
|---|---|
| MINSUP-A-F-08 | 1/2 |
| MINSUP-A-F-12 | 3/4 |
| MINSUP-A-F-16 | 1 |

### MINSUP-A-H — MINSUP Type A X Hose Barb



| Part # | Hose ID |
|---|---|
| MINSUP-A-H-08 | 1/2 |
| MINSUP-A-H-12 | 3/4 |
| MINSUP-A-H-16 | 1 |

### MINSUP-A-M — MINSUP Type A X BSPT Male



| Part # | BSPT M |
|---|---|
| MINSUP-A-M-08 | 1/2 |
| MINSUP-A-M-12 | 3/4 |
| MINSUP-A-M-16 | 1 |

### MINSUP-SAFETY-PIN — Safety Pin for Type A MINSUP



| Part # |
|---|
| MINSUP-SAFETY-PIN |

# N - Low Pressure Stainless Steel

## Contents

Straight. . . . . N2
45° Adaptors. . . . . N5
90° Adaptors. . . . . N6
Tee Adaptors. . . . . N7
Hose Tail . . . . . N8

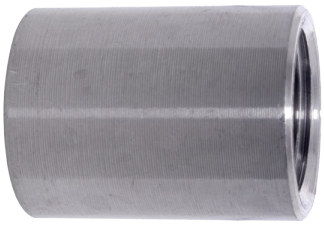
## Straight

**B1B-LPSS** | **BSPT M X BSPT F Reducing Bush**



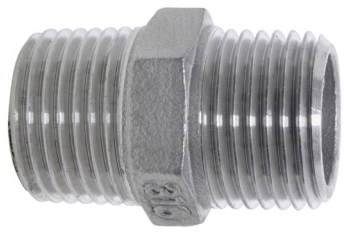
| Part # | BSPT M | BSPT F |
|---|---|---|
| B1B-04-02LPSS | 1/4 | 1/8 |
| B1B-06-04LPSS | 3/8 | 1/4 |
| B1B-08-04LPSS | 1/2 | 1/4 |
| B1B-08-06LPSS | 1/2 | 3/8 |
| B1B-12-04LPSS | 3/4 | 1/4 |
| B1B-12-06LPSS | 3/4 | 3/8 |
| B1B-12-08LPSS | 3/4 | 1/2 |
| B1B-16-06LPSS | 1 | 3/8 |
| B1B-16-08LPSS | 1 | 1/2 |
| B1B-16-12LPSS | 1 | 3/4 |
| B1B-20-08LPSS | 1 1/4 | 1/2 |
| B1B-20-12LPSS | 1 1/4 | 3/4 |
| B1B-20-16LPSS | 1 1/4 | 1 |
| B1B-24-12LPSS | 1 1/2 | 3/4 |
| B1B-24-16LPSS | 1 1/2 | 1 |
| B1B-24-20LPSS | 1 1/2 | 1 1/4 |
| B1B-32-12LPSS | 2 | 3/4 |
| B1B-32-16LPSS | 2 | 1 |
| B1B-32-20LPSS | 2 | 1 1/4 |
| B1B-32-24LPSS | 2 | 1 1/2 |
| B1B-40-24LPSS | 2 1/2 | 1 1/2 |
| B1B-40-32LPSS | 2 1/2 | 2 |
| B1B-48-24LPSS | 3 | 1 1/2 |
| B1B-48-32LPSS | 3 | 2 |
| B1B-48-40LPSS | 3 | 2 1/2 |
| B1B-64-32LPSS | 4 | 2 |
| B1B-64-40LPSS | 4 | 2 1/2 |
| B1B-64-48LPSS | 4 | 3 |

## B1F-LPSS — BSPT F X BSPT F Socket



| Part # | BSPT F | BSPT F |
|---|---|---|
| B1F-02-02LPSS | 1/8 | 1/8 |
| B1F-04-02LPSS | 1/4 | 1/8 |
| B1F-04-04LPSS | 1/4 | 1/4 |
| B1F-04-06LPSS | 1/4 | 3/8 |
| B1F-04-08LPSS | 1/4 | 1/2 |
| B1F-06-06LPSS | 3/8 | 3/8 |
| B1F-06-08LPSS | 3/8 | 1/2 |
| B1F-06-12LPSS | 3/8 | 3/4 |
| B1F-06-16LPSS | 3/8 | 1 |
| B1F-08-08LPSS | 1/2 | 1/2 |
| B1F-08-12LPSS | 1/2 | 3/4 |
| B1F-08-16LPSS | 1/2 | 1 |
| B1F-08-20LPSS | 1/2 | 1 1/4 |
| B1F-12-12LPSS | 3/4 | 3/4 |
| B1F-12-16LPSS | 3/4 | 1 |
| B1F-12-20LPSS | 3/4 | 1 1/4 |
| B1F-12-24LPSS | 3/4 | 1 1/2 |
| B1F-16-16LPSS | 1 | 1 |
| B1F-16-20LPSS | 1 | 1 1/4 |
| B1F-16-24LPSS | 1 | 1 1/2 |
| B1F-16-32LPSS | 1 | 2 |
| B1F-20-20LPSS | 1 1/4 | 1 1/4 |
| B1F-20-24LPSS | 1 1/4 | 1 1/2 |
| B1F-20-32LPSS | 1 1/4 | 2 |
| B1F-24-24LPSS | 1 1/2 | 1 1/2 |
| B1F-24-32LPSS | 1 1/2 | 2 |
| B1F-24-40LPSS | 1 1/2 | 2 1/2 |
| B1F-24-48LPSS | 1 1/2 | 3 |
| B1F-32-32LPSS | 2 | 2 |
| B1F-32-40LPSS | 2 | 2 1/2 |
| B1F-32-48LPSS | 2 | 3 |
| B1F-32-64LPSS | 2 | 4 |
| B1F-40-40LPSS | 2 1/2 | 2 1/2 |
| B1F-40-48LPSS | 2 1/2 | 3 |
| B1F-40-64LPSS | 2 1/2 | 4 |
| B1F-48-48LPSS | 3 | 3 |
| B1F-48-64LPSS | 3 | 4 |
| B1F-64-64LPSS | 4 | 4 |

## B1M-LPSS — BSPT M X BSPT M Nipple



| Part # | BSPT M | BSPT M |
|---|---|---|
| B1M-02-02LPSS | 1/8 | 1/8 |
| B1M-02-04LPSS | 1/8 | 1/4 |
| B1M-02-06LPSS | 1/8 | 3/8 |
| B1M-04-04LPSS | 1/4 | 1/4 |
| B1M-04-06LPSS | 1/4 | 3/8 |
| B1M-04-08LPSS | 1/4 | 1/2 |
| B1M-06-06LPSS | 3/8 | 3/8 |
| B1M-06-08LPSS | 3/8 | 1/2 |
| B1M-06-12LPSS | 3/8 | 3/4 |
| B1M-06-16LPSS | 3/8 | 1 |
| B1M-08-08LPSS | 1/2 | 1/2 |
| B1M-08-12LPSS | 1/2 | 3/4 |
| B1M-08-16LPSS | 1/2 | 1 |
| B1M-08-20LPSS | 1/2 | 1 1/4 |
| B1M-12-12LPSS | 3/4 | 3/4 |
| B1M-12-16LPSS | 3/4 | 1 |
| B1M-12-20LPSS | 3/4 | 1 1/4 |
| B1M-12-24LPSS | 3/4 | 1 1/2 |
| B1M-12-32LPSS | 3/4 | 2 |
| B1M-16-16LPSS | 1 | 1 |
| B1M-16-20LPSS | 1 | 1 1/4 |
| B1M-16-24LPSS | 1 | 1 1/2 |
| B1M-16-32LPSS | 1 | 2 |
| B1M-20-20LPSS | 1 1/4 | 1 1/4 |
| B1M-20-24LPSS | 1 1/4 | 1 1/2 |
| B1M-20-32LPSS | 1 1/4 | 2 |
| B1M-24-24LPSS | 1 1/2 | 1 1/2 |
| B1M-24-32LPSS | 1 1/2 | 2 |
| B1M-24-40LPSS | 1 1/2 | 2 1/2 |
| B1M-24-48LPSS | 1 1/2 | 3 |
| B1M-32-32LPSS | 2 | 2 |
| B1M-32-40LPSS | 2 | 2 1/2 |
| B1M-32-48LPSS | 2 | 3 |
| B1M-32-64LPSS | 2 | 4 |
| B1M-40-40LPSS | 2 1/2 | 2 1/2 |
| B1M-40-48LPSS | 2 1/2 | 3 |
| B1M-40-64LPSS | 2 1/2 | 4 |
| B1M-48-48LPSS | 3 | 3 |
| B1M-48-64LPSS | 3 | 4 |
| B1M-64-64LPSS | 4 | 4 |

# 45° Adaptors

**B4F-LPSS** | **BSPT F X BSPT F Ssocket Elbow 45°**




| Part # | BSPT F | BSPT F |
|---|---|---|
| B4F-04-04LPSS | 1/4 | 1/4 |
| B4F-06-06LPSS | 3/8 | 3/8 |
| B4F-08-08LPSS | 1/2 | 1/2 |
| B4F-12-12LPSS | 3/4 | 3/4 |
| B4F-16-16LPSS | 1 | 1 |
| B4F-20-20LPSS | 1 1/4 | 1 1/4 |
| B4F-24-24LPSS | 1 1/2 | 1 1/2 |
| B4F-32-32LPSS | 2 | 2 |
| B4F-40-40LPSS | 2 1/2 | 2 1/2 |
| B4F-48-48LPSS | 3 | 3 |
| B4F-64-64LPSS | 4 | 4 |

## 90° Adaptors

### B9F-LPSS — BSPT F X BSPT F Elbow 90°




| Part # | BSPT F | BSPT F |
|---|---|---|
| B9F-02-02LPSS | 1/8 | 1/8 |
| B9F-04-04LPSS | 1/4 | 1/4 |
| B9F-06-06LPSS | 3/8 | 3/8 |
| B9F-08-08LPSS | 1/2 | 1/2 |
| B9F-12-12LPSS | 3/4 | 3/4 |
| B9F-16-16LPSS | 1 | 1 |
| B9F-20-20LPSS | 1 1/4 | 1 1/4 |
| B9F-24-24LPSS | 1 1/2 | 1 1/2 |
| B9F-32-32LPSS | 2 | 2 |
| B9F-40-40LPSS | 2 1/2 | 2 1/2 |
| B9F-48-48LPSS | 3 | 3 |
| B9F-64-64LPSS | 4 | 4 |

### B9MF-LPSS — BSPT M X BSPT F Elbow 90°




| Part # | BSPT M | BSPT F |
|---|---|---|
| B9MF-02-02LPSS | 1/8 | 1/8 |
| B9MF-04-04LPSS | 1/4 | 1/4 |
| B9MF-06-06LPSS | 3/8 | 3/8 |
| B9MF-08-08LPSS | 1/2 | 1/2 |
| B9MF-12-12LPSS | 3/4 | 3/4 |
| B9MF-16-16LPSS | 1 | 1 |
| B9MF-20-20LPSS | 1 1/4 | 1 1/4 |
| B9MF-24-24LPSS | 1 1/2 | 1 1/2 |
| B9MF-32-32LPSS | 2 | 2 |
| B9MF-40-40LPSS | 2 1/2 | 2 1/2 |
| B9MF-48-48LPSS | 3 | 3 |
| B9MF-64-64LPSS | 4 | 4 |

# Tee Adaptors

**B3F-LPSS** | **BSPT F X BSPT F X BSPT F Tee**



| Part # | BSPT F | BSPT F | BSPT F |
|---|---|---|---|
| B3F-02-02-02LPSS | 1/8 | 1/8 | 1/8 |
| B3F-04-04-04LPSS | 1/4 | 1/4 | 1/4 |
| B3F-06-06-06LPSS | 3/8 | 3/8 | 3/8 |
| B3F-08-08-08LPSS | 1/2 | 1/2 | 1/2 |
| B3F-12-12-12LPSS | 3/4 | 3/4 | 3/4 |
| B3F-16-16-16LPSS | 1 | 1 | 1 |
| B3F-20-20-20LPSS | 1 1/4 | 1 1/4 | 1 1/4 |
| B3F-24-24-24LPSS | 1 1/2 | 1 1/2 | 1 1/2 |
| B3F-32-32-32LPSS | 2 | 2 | 2 |
| B3F-40-40-40LPSS | 2 1/2 | 2 1/2 | 2 1/2 |
| B3F-48-48-48LPSS | 3 | 3 | 3 |
| B3F-64-64-64LPSS | 4 | 4 | 4 |

## Hose Tail

**PBM-LPSS** | **BSPT M X Push Lock Tail Straight**



| Part # | BSPT M | Hose ID |
|---|---|---|
| PBM-04-04LPSS | 1/4 | 1/4 |
| PBM-06-06LPSS | 3/8 | 3/8 |
| PBM-06-08LPSS | 3/8 | 3/8 |
| PBM-08-06LPSS | 1/2 | 3/8 |
| PBM-08-08LPSS | 1/2 | 1/2 |
| PBM-08-12LPSS | 1/2 | 3/4 |
| PBM-12-08LPSS | 3/4 | 1/2 |
| PBM-12-12LPSS | 3/4 | 3/4 |
| PBM-12-16LPSS | 3/4 | 1 |
| PBM-16-12LPSS | 1 | 3/4 |
| PBM-16-16LPSS | 1 | 1 |
| PBM-20-20LPSS | 1 1/4 | 1 1/4 |
| PBM-24-24LPSS | 1 1/2 | 1 1/2 |
| PBM-32-32LPSS | 2 | 2 |
| PBM-40-40LPSS | 2 1/2 | 2 1/2 |
| PBM-48-48LPSS | 3 | 3 |
| PBM-64-64LPSS | 4 | 4 |

# O - Industrial Valves

## Contents

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Brass Check Valves . . . . . 04

## Low Pressure Ball Valves

### BV-LP — BSPP Female Low Pressure Ball Valve




| Part # | BSPP F |
|---|---|
| BV-04LP | 1/4 |
| BV-06LP | 3/8 |
| BV-08LP | 1/2 |
| BV-12LP | 3/4 |
| BV-16LP | 1 |
| BV-20LP | 1 1/4 |
| BV-24LP | 1 1/2 |
| BV-32LP | 2 |

### BV-WOG-1000 — BSPP Female Low Pressure 3-Piece Ball Valve Stainless Steel 1000 PSI



| Part# | BSPP F |
|---|---|
| BV-WOG-1000-3-04SS | 1/4 |
| BV-WOG-1000-3-06SS | 3/8 |
| BV-WOG-1000-3-08SS | 1/2 |
| BV-WOG-1000-3-12SS | 3/4 |
| BV-WOG-1000-3-16SS | 1 |
| BV-WOG-1000-3-20SS | 1 1/4 |
| BV-WOG-1000-3-24SS | 1 1/2 |
| BV-WOG-1000-3-32SS | 2 |
| BV-WOG-1000-3-48SS | 3 |

### BV-BT-LP-AGA — BSPP Female Low Pressure Butterfly Handle AGA Approved



| Part # | BSPP F |
|---|---|
| BV-BT-04LP-AGA | 1/4 |
| BV-BT-06LP-AGA | 3/8 |
| BV-BT-08LP-AGA | 1/2 |
| BV-BT-12LP-AGA | 3/4 |
| BV-BT-16LP-AGA | 1 |

## BV-BT-MF-LP-AGA — BSPP Male X Female Low Pressure Butterfly Handle AGA Approved



| Part# | BSPP M | BSPP F |
|---|---|---|
| BV-BT-MF-04LP-AGA | 1/4 | 1/4 |
| BV-BT-MF-06LP-AGA | 3/8 | 3/8 |
| BV-BT-MF-08LP-AGA | 1/2 | 1/2 |
| BV-BT-MF-12LP-AGA | 3/4 | 3/4 |
| BV-BT-MF-16LP-AGA | 1 | 1 |

## BV-LP-M-FF — BSPP Female Low Pressure Mini Ball Valve



| Part # | BSPP F |
|---|---|
| BV-M-02LP | 1/8 |
| BV-M-04LP | 1/4 |
| BV-M-06LP | 3/8 |
| BV-M-08LP | 1/2 |

## BV-LP-M-MF — BSP Male X BSP Female Low Pressure Mini Ball Valve MxF



| Part # | BSPP M | BSPP F |
|---|---|---|
| BV-M-MF-02LP | 1/8 | 1/8 |
| BV-M-MF-04LP | 1/4 | 1/4 |
| BV-M-MF-06LP | 3/8 | 3/8 |
| BV-M-MF-08LP | 1/2 | 1/2 |
| BV-M-MF-12LP | 3/4 | 3/4 |

# Brass Check Valves

**CHV-B** | **Low Pressure Brass Check Valve**



| Part # | BSPP F |
|---|---|
| CHV-06B | 3/8 |
| CHV-08B | 1/2 |
| CHV-12B | 3/4 |
| CHV-16B | 1 |
| CHV-20B | 1 1/4 |
| CHV-24B | 1 1/2 |
| CHV-32B | 2 |

# P - Technical

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Hydraulic Flareless Assembly Procedure . . . . . P17
Truflow Field Attachable Coupling Installation . . . . . P17

# Thread and Flange Identification

## How to Use this Section

This section is intended as an aid to identifying the most popular threads on hydraulic hose couplings and adaptors, and hydraulic equipment.
BSP, Metric, American and Japanese thread sizes can be very similar. It is important to measure and match every criteria of thread diameter, thread pitch, seating or sealing type (including angle of seats if present) to accurately determine thread type.

## Procedure

### Step 1. Investigation

Check for any markings on fitting or equipment which may be a clue to thread type. Country of origin may provide a clue.

| | | | |
|---|---|---|---|
| Europe | Check DIN/BSP | UK/Australia | Check BSP |
| America Check | NPT/JIC/UNO/ORFS | Japan | Check JIS |

### Step 2. Visual Inspection

Depending on whether the male or female thread or both are available, different features will aid identification.

- Are threads parallel or tapered?
- Is there an O Ring or a washer seal?
- If cone seats are present, are they concave or convex?
- Type and position on fittings.

### Step 3. Measure Threads

With a caliper, measure the thread diameter. OD of male threads, and ID of female threads. Using a thread gauge, determine the number of threads per inch. If thread gauge is not available, measure pitch from crest to crest of adjacent threads, or count the number of threads in 1/4" and multiply by four for threads per inch.
Chart at bottom of page may assist.

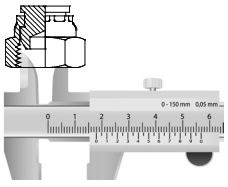
### Step 4. Seat Angle Measurement

Using a seat gauge, determine the angle of the seat.
Some fittings have dual seats (eg. JIC 37° & SAE 45°), and some have a radiused cone.

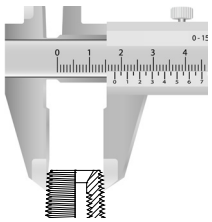
### Step 5. Conclusion

Match the measurements taken against those in the tables herein that appear to be similar to the coupling under consideration. A final check can be achieved by mating with an actual coupling of the same thread.

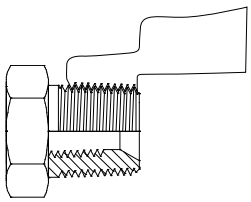
ID



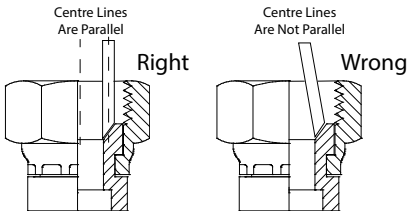
OD



Thread Gauge



Seat Gauge




| TPI (Thread Per Inch) | 28 | 27 | 24 | 20 | 19 | 18 | 16 | 14 | 12 | 11.5 | 11 | 8 | 16.9 | 12.7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pitch | 0.91 | 0.94 | 1.06 | 1.27 | 1.34 | 1.4 | 1.59 | 1.81 | 2.12 | 2.21 | 2.31 | 3.18 | 1.5 | 2.0 |

# BSPT / BSPP

**BSP** is BRITISH STANDARD PIPE
**BSPT** is BRITISH STANDARD PIPE TAPER
**BSPP** is BRITISH STANDARD PIPE PARALLEL

Also known as Whitworth 55° Thread Form
Thread form per AS 1722.1, BS 21, ISO 7, DIN 3852-2 Form C
Thread form per AS 1722.2, ISO 228 (Thread Type), ISO 1179

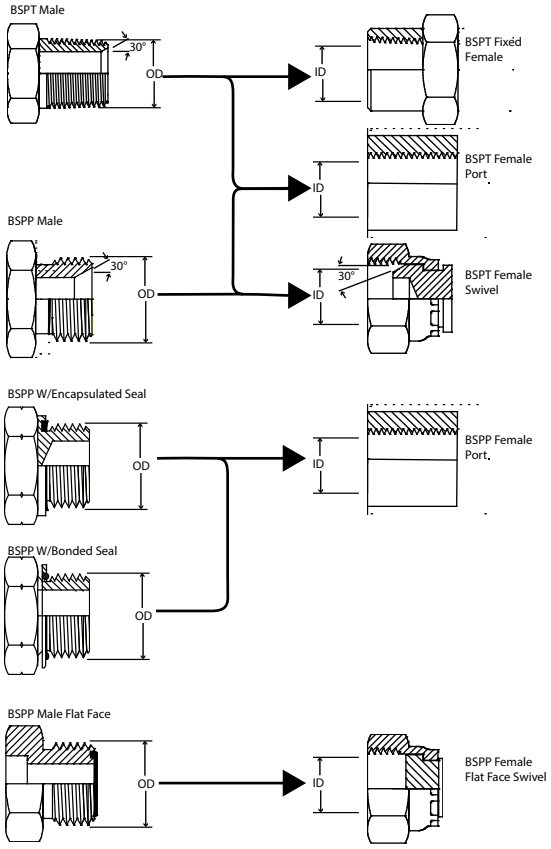
BSPT male threads seal against threads of fixed BSPT female. Contact is made on the flanks of the threads.
Use of a thread sealant is recommended for BSPT male to BSPT female connections.
Measure the BSPT male thread OD and female thread ID at the first full thread near the end of the fitting.

BSPT male and BSPP male with conical 30° seat (60° included angle) seal against matching conical 30° seat of BSPP female swivel.

BSPP O Ring male connector has straight threads and O Ring with metal Retaining Ring. It seals against flat external surface of BSPP female port

BSPP male, with chamfer to locate Bonded Seal also seals against flat external surface of BSPP female port.
Surface irregularities require a Spot Face to ensure effective sealing. Elbows and tees have Lock Nut to allow orientation of fitting to required direction.

BSPP male and BSPP female flat face swivel require a suitable soft washer between faces to seal.
For low working pressure.




## BSPT & BSPP Thread Dimensions

| BSPT & BSPP SIZE & PITCH | DASH SIZE | BSPT MALE THREAD OD | | BSPP MALE THREAD OD | | BSPT FEMALE THREAD ID | | BSPP FEMALE THREAD ID | |
|---|---|---|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | mm | inch | mm | inch |
| 1/8 - 28 | -02 | 9,5 | 0.37 | 9,6 | 0.38 | 8,4 | 0.33 | 8,6 | 0.34 |
| 1/4 -19 | -04 | 12,8 | 0.50 | 13,0 | 0.51 | 11,2 | 0.44 | 11,9 | 0.47 |
| 3/8 - 19 | -06 | 16,3 | 0.64 | 16,5 | 0.65 | 14,7 | 0.59 | 15,2 | 0.60 |
| 1/2 - 14 | -08 | 20,4 | 0.80 | 20,8 | 0.82 | 18,3 | 0.72 | 19,1 | 0.75 |
| 5/8 - 14 | -10 | 22,5 | 0.89 | 22,8 | 0.90 | 20,6 | 0.81 | 20,8 | 0.82 |
| 3/4 -14 | -12 | 25,9 | 1.02 | 26,3 | 1.04 | 23,9 | 0.94 | 24,6 | 0.97 |
| 1 - 11 | -16 | 32,6 | 1.28 | 33,1 | 1.30 | 29,7 | 1.17 | 30,7 | 1.21 |
| 1.1/4 - 11 | -20 | 41,1 | 1.62 | 41,8 | 1.64 | 38,6 | 1.52 | 39,4 | 1.55 |
| 1.1/2 - 11 | -24 | 47,0 | 1.85 | 47,7 | 1.88 | 44,5 | 1.75 | 45,5 | 1.79 |
| 2 - 11 | -32 | 58,6 | 2.31 | 59,5 | 2.34 | 56,4 | 2.22 | 57,4 | 2.26 |
| 2.1/2 - 11 | -40 | 74,1 | 2.92 | 75,1 | 2.95 | 71,9 | 2.83 | 72,6 | 2.86 |
| 3 -11 | -48 | 86,6 | 3.41 | 87,9 | 3.46 | 84,6 | 3.33 | 85,4 | 3.36 |

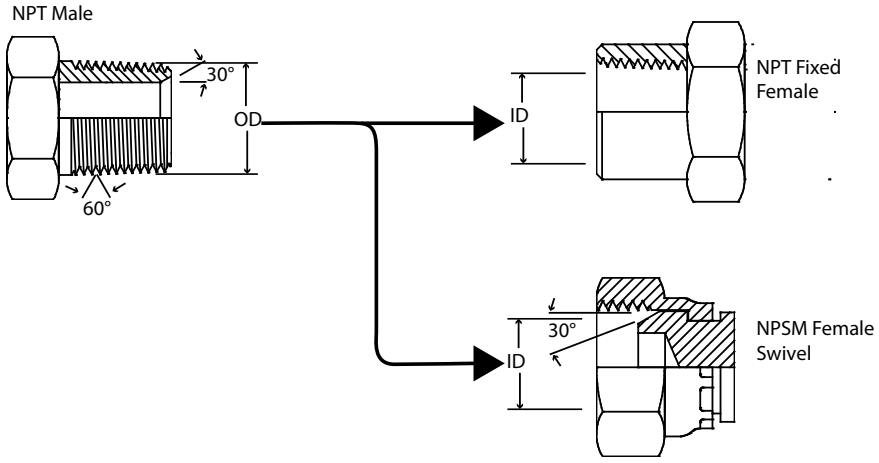
Thread size refers to the nominal bore of the pipe. Subtract approx. 1/4" (6 mm) from thread diameter measurement for nominal pipe size.

Pitch is Threads Per Inch (TPI). "Gas", "R" & "G" also refer to BSP. "Male Iron (Pipe)" may be BSP or NPT

# NPT & NPT

| | | | |
|---|---|---|---|
| NPT | is | NATIONAL PIPE TAPER (AMERICAN) | Thread form per ANSI/ASME B1.20.1 |
| NPS | is | NATIONAL PIPE STRAIGHT (PARALLEL) | Thread form per ANSI/ASME B1.20.1 |
| NPTF | is | NATIONAL PIPE TAPER FOR FUEL | Thread form per SAE J476 |
| NPSM | is | NATIONAL PIPE STRAIGHT MECHANICAL | Thread form per ANSI/ASME B1.20.1 |

National Pipe threads are similar in function to BSP threads, but are not generally interchangeable. NPTF threads (also known as Dry seal) are an improvement to NPT. Controlled truncation of threads mean the metal-to-metal thread seal is at root and crest of threads, in addition to flanks of threads. Use of thread sealant is recommended for NPT male and NPT female connection




Measure NPT male thread OD and NPT female thread ID at first full thread near end of fitting.

## NPT Thread Dimensions

| NPT THREAD SIZE & PITCH | DASH SIZE | MALE THREAD MINOR OD | | FEMALE THREAD ID | |
|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch |
| 1/8 - 27 | -02 | 9,9 | 0.39 | 8,4 | 0.33 |
| 1/4 -18 | -04 | 13,2 | 0.52 | 11,2 | 0.44 |
| 3/8 -18 | -06 | 16,6 | 0.65 | 14,7 | 0.58 |
| 1/2 -14 | -08 | 20,6 | 0.81 | 17,8 | 0.70 |
| 3/4 -14 | -12 | 26,0 | 1.02 | 23,4 | 0.92 |
| 1 - 11.1/2 | -16 | 32,5 | 1.28 | 29,5 | 1.16 |
| 1.1/4 - 11.1/2 | -20 | 41,2 | 1.62 | 38,1 | 1.50 |
| 1.1/2 - 11.1/2 | -24 | 47,3 | 1.86 | 43,9 | 1.73 |
| 2 - 11.1/2 | -32 | 59,3 | 2.33 | 56,4 | 2.22 |
| 2.1/2 - 8 | -40 | 71,5 | 2.82 | 69,1 | 2.72 |
| 3 - 8 | -48 | 87,3 | 3.44 | 84,8 | 3.34 |

## NPSM Thread Dimensions

| NPSM THREAD SIZE | DASH SIZE | FEMALE THREAD ID | |
|---|---|---|---|
| inch - TPI | | mm | inch |
| 1/8 - 27 | -02 | 8,6 | 0.34 |
| 1/4 - 18 | -04 | 11,9 | 0.47 |
| 3/8 - 18 | -06 | 15,0 | 0.59 |
| 1/2 - 14 | -08 | 19,1 | 0.75 |
| 3/4 - 14 | -12 | 24,6 | 0.97 |
| 1 - 11.1/2 | -16 | 30,5 | 1.20 |
| 1.1/4 - 11.1/2 | -20 | 39,4 | 1.55 |
| 1.1/2 - 11.1/2 | -24 | 45,5 | 1.79 |
| 2 - 11.1/2 | -32 | 57,4 | 2.26 |
| 2.1/2 - 8 | -40 | 68,8 | 2.71 |
| 3 - 8 | -48 | 84,6 | 3.33 |

*Thread size refers to the nominal bore of the pipe.*
*Subtract approximately 1/4"(6 mm) from thread measurement for nominal pipe size. Pitch is Threads Per Inch (TPI).*

# JIC 37° Flare & UNO (O-Ring Boss)

| | | |
|---|---|---|
| **JIC** | **is JOINT INDUSTRIES COUNCIL** | **SAE J514, ISO 8434-2** |
| **UN** | **is UNIFIED NATIONAL** | **SAE J1926, ISO 11926-2** |

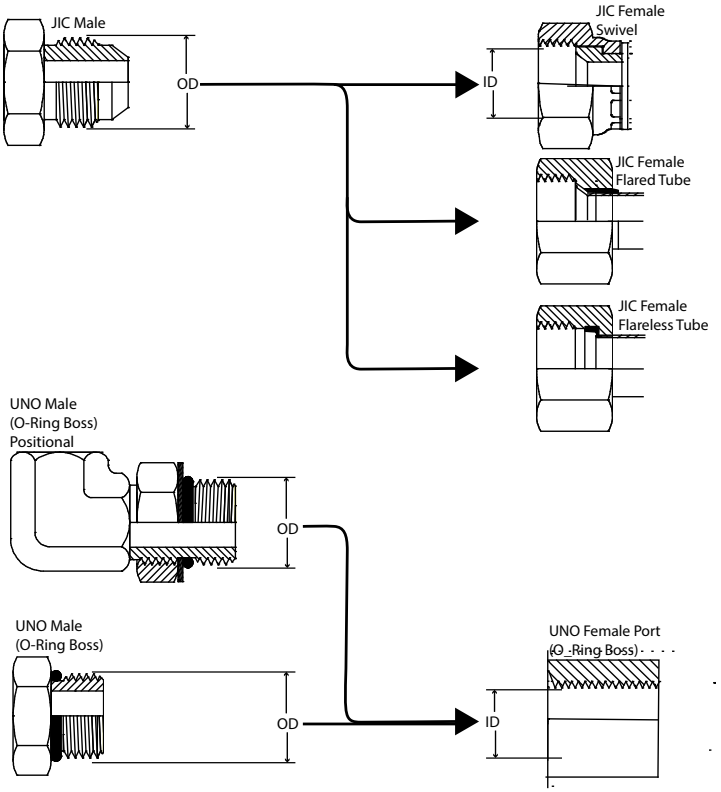
**JIC & UNO (O Ring Boss) thread forms are the same (ASME B1.1). Method of sealing differs.**

JIC male has 37° flare which seals against 37° seat in female

JIC male can also seal against 37° flared tubing with JIC nut and sleeve.

JIC male can also be used with Female Nut (JNFL) and Flareless Sleeve (JFFL) on Imperial OD tubing.

UNO (O Ring Boss) seals with O Ring compressed between hex boss of UN male and 12°/15° tapered bore of UN (O Ring Boss) female port. For elbows and tees, Back Up Washer and Lock Nut allow orientation of fitting to required direction.




## JIC & UNO Thread Dimensions

| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 5/16 - 24 UNF | -02 | 7,9 | 0.31 | 6,9 | 0.27 | 1/8 |
| 3/8 - 24 UNF | -03 | 9,5 | 0.38 | 8,5 | 0.33 | 3/16 |
| 7/16 - 20 UNF | -04 | 11,1 | 0.44 | 9,9 | 0.39 | 1/4 |
| 1/2 - 20 UNF | -05 | 12,7 | 0.50 | 11,4 | 0.45 | 5/16 |
| 9/16 - 18 UNF | -06 | 14,3 | 0.56 | 13,0 | 0.51 | 3/8 |
| 3/4 - 16 UNF | -08 | 19,1 | 0.75 | 17,5 | 0.69 | 1/2 |
| 7/8 - 14 UNF | -10 | 22,2 | 0.88 | 20,3 | 0.80 | 5/8 |
| 1.1/16 - 12 UN | -12 | 27,0 | 1.06 | 24,9 | 0.98 | 3/4 |
| 1.3/16 - 12 UN | -14 | 30,2 | 1.19 | 28,2 | 1.11 | 7/8 |
| 1.5/16 - 12 UN | -16 | 33,3 | 1.31 | 31,2 | 1.23 | 1 |
| 1.5/8 - 12 UN | -20 | 41,3 | 1.63 | 39,1 | 1.54 | 1.1/4 |
| 1.7/8 - 12 UN | -24 | 47,6 | 1.88 | 45,5 | 1.79 | 1.1/2 |
| 2.1/2 - 12 UN | -30 | 63,5 | 2.50 | 61,5 | 2.42 | 2 |

*Thread size is actual measurement of male thread and pitch is Threads Per Inch (TPI)*

# JIS

**JIS is JAPANESE INDUSTRIAL STANDARDS**

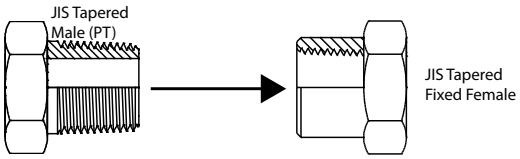
There are four popular coupling styles in Japan.

### 1. JIS Tapered Pipe Thread.

The Japanese tapered pipe thread connector is identical to and interchangeable with the BSPT (tapered) connector. The Japanese male thread does not have a 30° Flare, and will not mate with the BSPP female swivel with conical seat.

The seal on the Japanese tapered pipe thread connector is made on the threads. Use of a thread sealant is recommended.

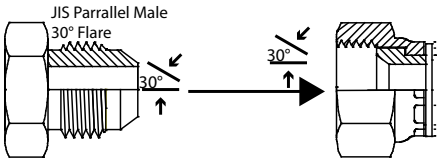
Thread form per JIS B 0203 (identical to BSPT).




### 2. JIS 30° Flare (Female Internal Cone Seat).

This connection uses a 60° concave (inverted) seat and British Standard Pipe Parallel threads. They are not interchangeable with BSPP conical seat couplings, because the cone seats are opposite.

Thread form per JIS B 0202 (identical to BSPP).

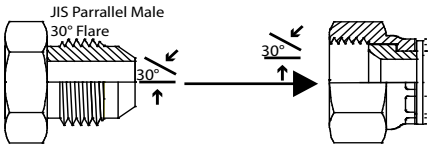



*Refer to BSPP section for dimensions of threads.*

### 3. Komatsu 30° flare (Female Internal Cone Seat).

Threads commonly used on Komatsu equipment (30° cone) have metric thread form.

| MALE THREAD OD & PITCH | DASH SIZE | FEMALE THREAD ID |
|---|---|---|
| mm | | mm |
| M14 x 1,5 | -14M | 12,5 |
| M18 x 1,5 | -18M | 16,5 |
| M22 x 1,5 | -22M | 20,5 |
| M24 x 1,5 | -24M | 22,5 |
| M30 x 1,5 | -30M | 28,5 |
| M33 x 1,5 | -33M | 31,5 |
| M36 x 1,5 | -36M | 34,5 |
| M42 x 1,5 | -42M | 40,5 |




### 4. Komatsu Style Flange Fitting JIS B 8363

The Komatsu style Flange fitting is nearly identical to, and fully interchangeable with, the SAE Code 61 flange fitting*.

The O Ring dimensions are different between all sizes. When replacing a Komatsu style flange with an SAE style flange, an SAE style O Ring must always be used.

*5/8" is not in the SAE Standards.

## BSPT & BSPP Thread Dimensions

| BSPT & BSPP SIZE & PITCH | DASH SIZE | BSPT MALE THREAD OD | | BSPP MALE THREAD OD | | BSPT FEMALE THREAD ID | | BSPP FEMALE THREAD ID | |
|---|---|---|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | mm | inch | mm | inch |
| 1/8 - 28 | -02 | 9,5 | 0.37 | 9,6 | 0.38 | 8,4 | 0.33 | 8,6 | 0.34 |
| 1/4 -19 | -04 | 12,8 | 0.50 | 13,0 | 0.51 | 11,2 | 0.44 | 11,9 | 0.47 |
| 3/8 - 19 | -06 | 16,3 | 0.64 | 16,5 | 0.65 | 14,7 | 0.59 | 15,2 | 0.60 |
| 1/2 - 14 | -08 | 20,4 | 0.80 | 20,8 | 0.82 | 18,3 | 0.72 | 19,1 | 0.75 |
| 5/8 - 14 | -10 | 22,5 | 0.89 | 22,8 | 0.90 | 20,6 | 0.81 | 20,8 | 0.82 |
| 3/4 -14 | -12 | 25,9 | 1.02 | 26,3 | 1.04 | 23,9 | 0.94 | 24,6 | 0.97 |
| 1 - 11 | -16 | 32,6 | 1.28 | 33,1 | 1.30 | 29,7 | 1.17 | 30,7 | 1.21 |
| 1.1/4 - 11 | -20 | 41,1 | 1.62 | 41,8 | 1.64 | 38,6 | 1.52 | 39,4 | 1.55 |
| 1.1/2 - 11 | -24 | 47,0 | 1.85 | 47,7 | 1.88 | 44,5 | 1.75 | 45,5 | 1.79 |
| 2 - 11 | -32 | 58,6 | 2.31 | 59,5 | 2.34 | 56,4 | 2.22 | 57,4 | 2.26 |
| 2.1/2 - 11 | -40 | 74,1 | 2.92 | 75,1 | 2.95 | 71,9 | 2.83 | 72,6 | 2.86 |
| 3 -11 | -48 | 86,6 | 3.41 | 87,9 | 3.46 | 84,6 | 3.33 | 85,4 | 3.36 |

*Thread size refers to the nominal bore of the pipe. Subtract approx. 1/4" (6 mm) from thread diameter measurement for nominal pipe size.*

*Pitch is Threads Per Inch (TPI). "Gas", "R" & "G" also refer to BSP. "Male Iron (Pipe)" may be BSP or NPT*



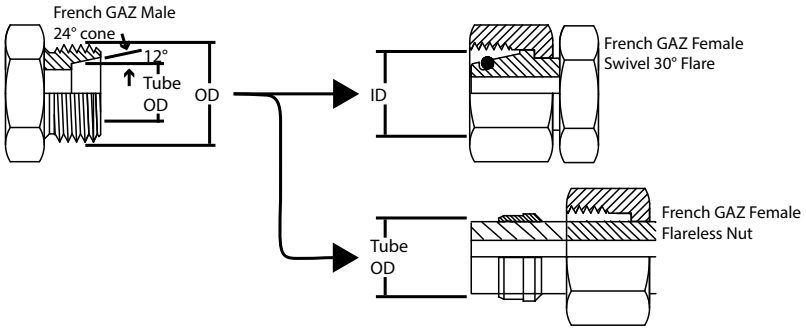


(08) 9451 2204

# Metric

## French GAZ

**Also known as Metric ISO**



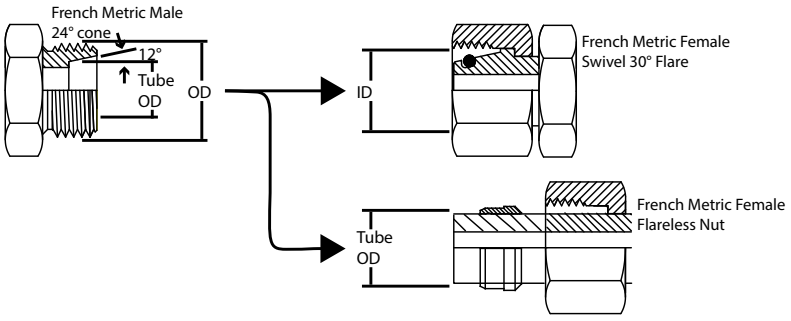

These seal on a 24° cone seat located internally on the male connector using straight fine metric threads.
Metric French GAZ series uses fractional number metric OD tubing, as shown in the table.
Metric French Millimetric series uses whole number metric OD tubing. The two series are not interconnectable.

The male will mate with a straight thread female swivel with spherical nose seat.
The same male also mates with flareless tube, Tube Nut and Compression Olive (Cutting Ring). Tightening of the female nut compresses the olive causing it cut into the tube, thereby forming a seal
between the tube, olive and 24° male cone.

| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | mm |
| M20 x 1,5 | -20M | 20,0 | 0.78 | 18,5 | 0.72 | 13,25 |
| M24 x 1,5 | -24M | 24,0 | 0.94 | 22,5 | 0.88 | 16,75 |
| M30 x 1,5 | -30M | 30,0 | 1.18 | 28,5 | 1.12 | 21,25 |
| M36 x 1,5 | -36M | 36,0 | 1.41 | 34,5 | 1.35 | 26,75 |
| M45 x 1,5 | -45M | 45,0 | 1.77 | 43,5 | 1.71 | 33,50 |
| M52 x 1,5 | -52M | 52,0 | 2.04 | 50,5 | 1.98 | 42,25 |

## METRIC FRENCH MILLIMETRIC

Also known as Metric Millimetric




These seal on a 24° cone seat located internally on the male connector using straight fine metric threads.
Metric French GAZ series uses fractional number metric OD tubing, as shown in the table.
Metric French Millimetric series uses whole number metric OD tubing. The two series are not interconnectable.

The male will mate with a straight thread female swivel with spherical nose seat.
The same male also mates with flareless tube, Tube Nut and Compression Olive (Cutting Ring). Tightening of the female nut compresses the olive causing it cut into the tube, thereby forming a seal
between the tube, olive and 24° male cone.

| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | mm |
| M27 x 1,5 | -27M | 27.0 | 1.06 | 25,5 | 1.00 | 20 |
| M30 x 1,5 | -30M | 30,0 | 1.18 | 28,5 | 1.12 | 22 |
| M33 x 1,5 | -33M | 33,0 | 1.30 | 31,5 | 1.24 | 25 |
| M36 x 1,5 | -36M | 36,0 | 1.41 | 34,5 | 1.35 | 28 |
| M39 x 1,5 | -39M | 39,0 | 1.54 | 37,5 | 1.48 | 30 |
| M45 x 1,5 | -45M | 45,0 | 1.77 | 43,5 | 1.71 | 35 |

# Metric DIN

| | | | |
|---|---|---|---|
| DIN | is | DEUTSCHE INDUSTRIE NORMEN (GERMAN INDUSTRIAL STANDARD) | Thread Form per DIN 3853, ISO 261<br>24° Cone Seat per DIN 3861, ISO 8434-1/DIN 2353<br>O Ring Seal per DIN 3865,<br>Bonded Seal and Port per DIN 3852-1 |
| DKL | is | DICHT KEGEL LEICHT | (Metric Light Series 24° Cone) |
| DKS | is | DICHT KEGEL SCHWER | (Metric Heavy Series 24° Cone) |
| DKOL | is | DICHT KEGEL O RING LEICHT | (Metric Light O Ring Series 24° Cone) |
| DKOS | is | DICHT KEGEL O RING SCHWER | (Metric Heavy O Ring Series 24° Cone) |
| DKM | is | DICHT KEGEL METRIC | (Metric 60° Cone) |

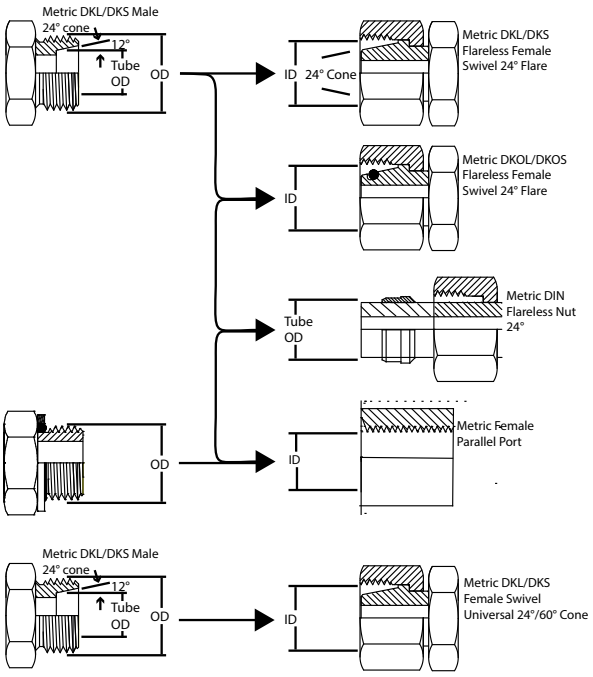
This DIN connection comes in a Light Series (DKL/DKOL) and a Heavy Series (DKS/DKOS). Some thread sizes in each series are the same, but the Tube OD of the Heavy Series is smaller and has a thicker tube wall. Because the tube and sealing cone are different sizes, Light and Heavy Series are NOT interchangeable.

The DIN male 24° internal cone seat will seal with flareless female swivel fittings. These female fittings use either a spherical nose (DKL/DKS) or an O Ring seal (DKOL/DKOS) located on their outward facing 24° cone. Female DKL sizes up to and including M26 have a universal 24°/60° cone and can be used in place of female DKM fittings with 60° cone.

The same male also mates with the DIN system Metric Tube, Tube Nut and Compression Olive (Cutting Ring).

Tightening of the female nut compresses the olive causing it to cut into the tube, thereby forming a seal between the tube, olive and 24° male cone.

The same male used with a metal Bonded Seal will mate with a DIN 3852-1 metric threaded port with spotface.




## DKM 60° CONE SEAT

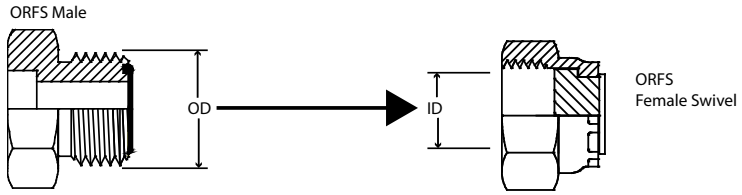
The DIN male 60° internal cone seat will mate with DKL/DKM female universal 24°/60° cone fittings up to and including size M26 and DKM female 60° cone fittings from size M30 up.

| MALE THREAD OD & PITCH | FEMALE THREAD ID | LIGHT SERIES - DKL/DKOL | | | | HEAVY SERIES - DKS/DKOS | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | DASH SIZE | TUBE OD | D1 DIA | D2 DIA | DASH SIZE | TUBE OD | D1 DIA | D2 DIA |
| mm | mm | | mm | mm | mm | | mm | mm | mm |
| M12 x 1,5 | 10,5 | -12M | 6 | 7,5 | 6,3 | | | | |
| M14 x 1,5 | 12,5 | -14M | 8 | 9,5 | 8,2 | -14M | 6 | 7,5 | 6,3 |
| M16 x 1,5 | 14,5 | -16M | 10 | 11,5 | 10,2 | -16M | 8 | 9,5 | 7,9 |
| M18 x 1,5 | 16,5 | -18M | 12 | 14,0 | 12,2 | -18M | 10 | 12,0 | 10,0 |
| M20 x 1,5 | 18,5 | | | | | -20M | 12 | 14,0 | 12,0 |
| M22 x 1,5 | 20,5 | -22M | 15 | 17,0 | 15,2 | -22M | 14 | 16,0 | 14,2 |
| M24 x 1,5 | 22,5 | | | | | -24M | 16 | 18,0 | 15,8 |
| M26 x 1,5 | 24,5 | -26M | 18 | 20,0 | 18,2 | | | | |
| M30 x 2,0 | 28,0 | -30M | 22 | 24,5 | 22,2 | -30M | 20 | 22,5 | 19,8 |
| M36 x 2,0 | 34,0 | -36M | 28 | 30,5 | 28,2 | -36M | 25 | 27,5 | 24,5 |
| M42 x 2,0 | 40,0 | | | | | -42M | 30 | 33,0 | 30,0 |
| M45 x 2,0 | 43,0 | -45M | 35 | 38,0 | 35,4 | | | | |
| M52 x 2,0 | 50,0 | -52M | 42 | 45,0 | 42,4 | -52M | 38 | 41,0 | 36,8 |

# ORFS

**ORFS is O RING FACE SEAL SAE J1453, ISO 8434-3**

ORFS system consists of ORFS Male with O Ring in Face, which seals against Flat Seated ORFS Female Swivel Nut fitting. The Swivel Nut can be slipped back to help installation in tight situations. The prominent position of the O Ring on the Male fitting makes it easy to inspect the condition of the O Ring.




| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 9/16 - 18 UNF | -04 | 14,3 | 0.56 | 12,9 | 0.51 | 1/4 |
| 11/16 - 16 UN | -06 | 17,3 | 0.68 | 16,0 | 0.63 | 3/8 |
| 13/16 - 16 UN | -08 | 20,6 | 0.81 | 19,1 | 0.75 | 1/2 |
| 1 - 14 UNS | -10 | 25,4 | 1.00 | 23,6 | 0.73 | 5/8 |
| 1.3/16 - 12 UN | -12 | 30,0 | 1.18 | 28,2 | 1.11 | 3/4 |
| 1.7/16 - 12 UN | -16 | 36,3 | 1.43 | 34,3 | 1.35 | 1 |
| 1.11/16 - 12 UN | -20 | 42,7 | 1.68 | 40,6 | 1.60 | 1.1/4 |
| 2 - 12 UN | -45 | 51,8 | 2.00 | 48,8 | 1.92 | 1.1/2 |

# SAE

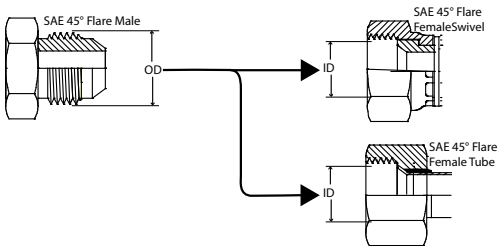
**SAE is Society of Automotive Engineers**
These fittings are commonly used in refrigeration, automotive and low pressure applications.

## SAE 45° Flare

**SAE J512**

SAE male has 45° flare which seals against 45° seat in female. Male can also seal against 45° flared tubing with nut and sleeve.
7/16 - 20, 1/2 - 20, 3/4 - 16 & 7/8 - 14 are the same thread form as JIC 37° flare. Some fittings in these sizes have both JIC 37° & SAE 45° seats.

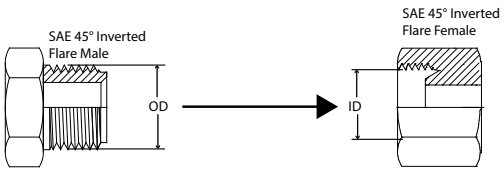
| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 5/16 -24 | -02 | 7,9 | 0.31 | 6,8 | 0.27 | 1/8 |
| 3/8 - 24 | -03 | 9,5 | 0.38 | 8,4 | 0.33 | 3/16 |
| 7/16 - 20 | -04 | 11,1 | 0.44 | 9,9 | 0.39 | 1/4 |
| 1/2 - 20 | -05 | 12,7 | 0.50 | 11,4 | 0.44 | 5/16 |
| 5/8 - 18 | -06 | 15,9 | 0.63 | 14,2 | 0.56 | 3/8 |
| 3/4 - 16 | -08 | 19,1 | 0.75 | 17,5 | 0.69 | 1/2 |
| 7/8 - 14 | -10 | 22,2 | 0.88 | 20,6 | 0.81 | 5/8 |
| 1.1/16 -14 | -12 | 27,0 | 1.06 | 24,9 | 0.98 | 3/4 |




## SAE 45° INVERTED FLARE

**SAE J512**

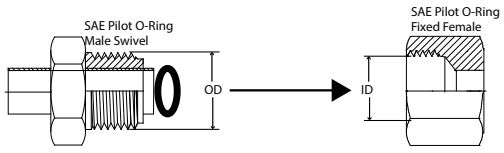
| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 7/16 - 24 | -04 | 11,1 | 0.44 | 9,9 | 0.39 | 1/4 |
| 1/2 - 20 | -05 | 12,7 | 0.50 | 11,4 | 0.45 | 5/16 |
| 5/8 - 18 | -06 | 15,9 | 0.63 | 14,2 | 0.56 | 3/8 |
| 11/16 - 18 | -07 | 17,5 | 0.69 | 16,0 | 0.63 | 7/16 |




## SAE PILOT O RING SEALS

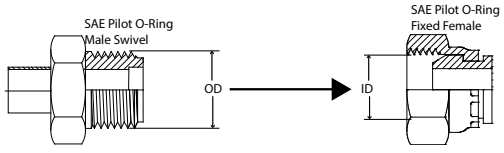
**Pilot Male Swivel**

| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 5/8 - 18 | -06 | 15,9 | 0.63 | 14,2 | 0.56 | 3/8 |
| 3/4 - 18 | -08 | 19,0 | 0.75 | 17,8 | 0.70 | 1/2 |
| 7/8 - 18 | -10 | 22,2 | 0.88 | 20,6 | 0.81 | 5/8 |




## Pilot Female Swivel

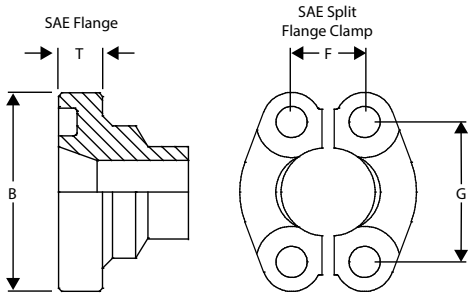
| MALE THREAD OD & PITCH | DASH SIZE | MALE THREAD OD | | FEMALE THREAD ID | | TUBE SIZE |
|---|---|---|---|---|---|---|
| inch - TPI | | mm | inch | mm | inch | inch |
| 5/8 - 18 | -06 | 15,9 | 0.63 | 14,2 | 0.56 | 1/4 |
| 3/4 - 18 | -08 | 19,0 | 0.75 | 17,8 | 0.70 | 1/2 |
| 7/8 - 18 | -10 | 22,2 | 0.88 | 20,6 | 0.81 | 5/8 |



# SAE Flange

## CODE 61, CODE 62, CAT and Komatsu (SAE J518, ISO 6162)

The male connector has a flange head with an O Ring groove on the face. The female can be a flange block or port with smooth face to accept the O Ring, and four threaded bolt holes in a rectangular pattern.
The connection is held together using either a split or solid flange clamp, fitted over the male flange head and drawn up to the female port using the four bolts. This compresses the O Ring forming a seal between the male flange and the flat female port face.
SAE J518, DIN 20066, ISO/DIS 6162 and JIS B 8363 are all interchangeable, except for bolt sizes.




| NOM. FLANGE SIZE | DASH SIZE | BØ | | T | | F | | G | | PORT THREAD & BOLT LENGTH | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | PORT | BOLT Length | PORT | BOLT Length |
| inch | | mm | inch | mm | inch | mm | inch | mm | inch | UNC | inch | METRIC | mm |
| **CODE 61** | | | | | | | | | | | | | |
| 1/2 | -08 | 30,2 | 1.19 | 6,73 | 0.265 | 17,5 | 0.69 | 38,1 | 1.50 | 5/16 - 18 | 1.1/4 | M8 x 1,25 | 35 |
| *5/8 | -10 | 34,0 | 1.34 | 6,73 | 0.265 | 19,8 | 0.78 | 42,9 | 1.69 | 5/16 - 18 | | M8 x 1,25 | |
| 3/4 | -12 | 38,1 | 1.50 | 6,73 | 0.265 | 22,2 | 0.88 | 47,6 | 1.88 | 3/8 - 16 | 1.1/4 | M10 x 1,5 | 35 |
| 1 | -16 | 44,5 | 1.75 | 8,00 | 0.315 | 26,2 | 1.03 | 52,4 | 2.06 | 3/8 - 16 | 1.1/4 | M10 x 1,5 | 35 |
| 1.1/4 | -20 | 50,8 | 2.00 | 8,00 | 0.315 | 30,2 | 1.19 | 58,7 | 2.31 | 7/16 - 14 | 1.1/2 | M10 x 1,5 | 40 |
| 1.1/2 | -24 | 60,3 | 2.38 | 8,00 | 0.315 | 35,7 | 1.41 | 69,8 | 2.75 | 1/2 - 13 | 1.1/2 | M12 x 1,75 | 45 |
| 2 | -32 | 71,4 | 2.81 | 9,53 | 0.375 | 42,9 | 1.69 | 77,8 | 3.06 | 1/2 - 13 | 1.1/2 | M12 x 1,75 | 45 |
| 2.1/2 | -40 | 84,1 | 3.31 | 9,53 | 0.375 | 50,8 | 2.00 | 88,9 | 3.50 | 1/2 - 13 | 1.3/4 | M12 x 1,75 | 45 |
| 3 | -48 | 101,6 | 4.00 | 9,53 | 0.375 | 61,9 | 2.44 | 106,4 | 4.19 | 5/8 - 11 | 1.3/4 | M16 x 2,0 | 45 |
| **CODE 62** | | | | | | | | | | | | | |
| 1/2 | -08 | 31,7 | 1.25 | 7,75 | 0.305 | 18,2 | 0.72 | 40,5 | 1.59 | 5/16 - 18 | 1.1/4 | M8 x 1,25 | 35 |
| 3/4 | -12 | 41,3 | 1.63 | 8,76 | 0.345 | 23,8 | 0.94 | 50,8 | 2.00 | 3/8 - 16 | 1.1/2 | M10 x 1,5 | 40 |
| 1 | -16 | 47,6 | 1.88 | 9,53 | 0.375 | 27,8 | 1.09 | 57,2 | 2.25 | 7/16 - 14 | 1.3/4 | M12 x 1,75 | 45 |
| 1.1/4 | -20 | 54,0 | 2.12 | 10,29 | 0.405 | 31,8 | 1.25 | 66,7 | 2.63 | 1/2 - 13 | 1.3/4 | M14 x 2,0 | 45 |
| 1.1/2 | -24 | 63,5 | 2.50 | 12,57 | 0.495 | 36,5 | 1.44 | 79,4 | 3.13 | 5/8 - 11 | 2.1/4 | M16 x 2,0 | 60 |
| 2 | -32 | 79,4 | 3.13 | 12,57 | 0.495 | 44,5 | 1.75 | 96,8 | 3.81 | 3/4 - 10 | 2.3/4 | M20 x 2,5 | 70 |
| **CAT** | | | | | | | | | | | | | |
| 3/4 | -12 | 41,3 | 1.63 | 14,20 | 0.559 | 23,8 | 0.94 | 50,8 | 2.00 | 3/8 - 16 | 1.3/4 | M10 x 1,5 | 45 |
| 1 | -16 | 47,6 | 1.88 | 14,20 | 0.559 | 27,8 | 1.09 | 57,2 | 2.25 | 7/16 - 14 | 1.3/4 | M12 x 1,75 | 45 |
| 1.1/4 | -20 | 54,0 | 2.12 | 14,20 | 0.559 | 31,8 | 1.25 | 66,7 | 2.63 | 1/2 - 13 | 2 | M14 x 2,0 | 50 |
| 1.1/2 | -24 | 63,5 | 2.5 | 14,20 | 0.559 | 36,5 | 1.44 | 79,4 | 3.13 | 5/8 - 11 | 2.1/2 | M16 x 2,0 | 60 |

*CAT fittings conform to the flange OD and bolt hole patterns of SAE Code 62 but require special flange clamp halves.*
*CAT flange heads are thicker than SAE Code 62 and measure T = 14,2 mm (0.559") in all sizes.*
*CAT flanges have similar dimensions to the Caterpillar XT-5 and XT-6 range of flanges. Cat™ Caterpillar®, XT-5™, XT-6™ Caterpillar®.*

# Recommended Working Pressure

## BSP

| THREAD SIZE | BSPT MALE 60° CONE SEAT | BSPP MALE | BSPP MALE (POSITIONAL) | BSP FEMALE SWIVEL | BSP FIXED FEMALE |
|---|---|---|---|---|---|
| 1/8 | 10000 | 8700 | 4000 | 8000 | 8000 |
| 1/4 | 9500 | 8700 | 4000 | 8000 | 8000 |
| 3/8 | 8000 | 8700 | 4000 | 7500 | 7500 |
| 1/2 | 6000 | 6000 | 4000 | 5500 | 5500 |
| 5/8 | 5000 | | | | 4000 |
| 3/4 | 5000 | 6000 | 2500 | 4000 | 4000 |
| 1 | 4000 | 6000 | 2500 | 3500 | 3500 |
| 1 1/4 | 3000 | 5500 | 2000 | 3000 | 3000 |
| 1 1/2 | 2000 | 5500 | 2000 | 2500 | 2500 |
| 2 | 2000 | 3500 | | 2000 | 2000 |

## UN

| THREAD SIZE | JIC MALE | JIC FEMALE | UNO MALE | UNO MALE (POSITIONAL) |
|---|---|---|---|---|
| 7/16 | 7000 | 7000 | 4500 | 4500 |
| 1/2 | 7000 | 7000 | 4500 | 4500 |
| 9/16 | 5000 | 5000 | 4500 | 3500 |
| 3/4 | 4000 | 4000 | 4500 | 3500 |
| 7/8 | 3800 | 3800 | 3500 | 3000 |
| 1 1/16 | 4000 | 3500 | 3500 | 3000 |
| 1 3/16 | 3500 | 3300 | | |
| 1 5/16 | 3000 | 3500 | 3000 | 2500 |
| 1 5/8 | 2500 | 2500 | 2500 | 2000 |
| 1 7/8 | 2100 | 2100 | 2500 | 2000 |
| 2 1/2 | 1750 | 1750 | 2000 | 1500 |

## ORFS

| THREAD SIZE | ORFS MALE | ORFS FEMALE |
|---|---|---|
| 9/16 | 6000 | 6000 |
| 11/16 | 6000 | 6000 |
| 13/16 | 6000 | 6000 |
| 1 | 6000 | 6000 |
| 1 3/16 | 6000 | 6000 |
| 1 7/16 | 6000 | 6000 |
| 1 11/16 | 4000 | 4000 |
| 2 | 4000 | 3000 |

## METRIC

| THREAD SIZE | METRIC LIGHT LIGHT | METRIC LIGHT | METRIC HEAVY | JIS (KOMATSU) MALE | JIS (KOMATSU) FEMALE |
|---|---|---|---|---|---|
| 08M | 1450 | | | | |
| 10M | 1450 | | | | |
| 12M | 1450 | 3625 | | | |
| 14M | | 3625 | 9135 | 6500 | 6000 |
| 16M | | 3625 | 9135 | 6500 | 6000 |
| 18M | | 3625 | 9135 | | |
| 20M | | | 9135 | | |
| 22M | | 3625 | | 6000 | 5500 |
| 24M | | | 5800 | 5000 | 4500 |
| 26M | | 2320 | | | |
| 30M | | 2320 | 5800 | 5000 | 3750 |
| 36M | | 1450 | 5800 | | |
| 42M | | | 3625 | | |
| 45M | | 1450 | | | |
| 52M | | 1450 | 3625 | | |

## NPT

| THREAD SIZE | NPT MALE | NPT FIXED FEMALE |
|---|---|---|
| 1/8 | 10000 | 8000 |
| 1/4 | 9500 | 8000 |
| 3/8 | 8000 | 7500 |
| 1/2 | 6000 | 5500 |
| 3/4 | 5000 | 4000 |
| 1 | 4000 | 3500 |
| 1 1/4 | 3000 | 3000 |
| 1 1/2 | 2000 | 2500 |
| 2 | 2000 | 2000 |

## SAE FLANGE

| THREAD SIZE | CODE 61 | CODE 62 |
|---|---|---|
| 1/2 | 5000 | 6000 |
| 3/4 | 5000 | 6000 |
| 1 | 5000 | 6000 |
| 1 1/4 | 4000 | 6000 |
| 1 1/2 | 3000 | 6000 |
| 2 | 3000 | 6000 |

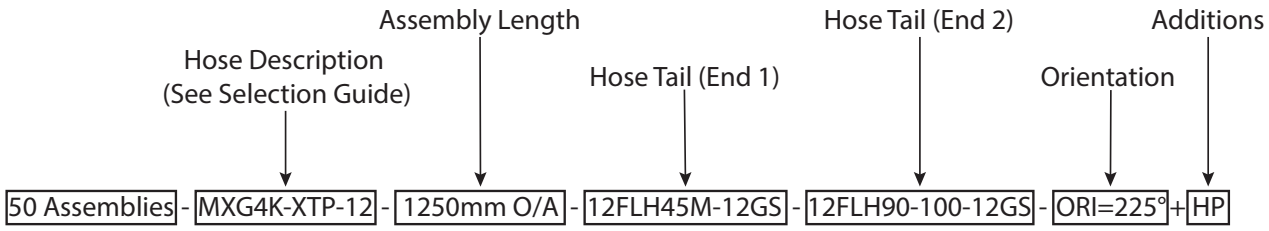
For more information please contact the office.

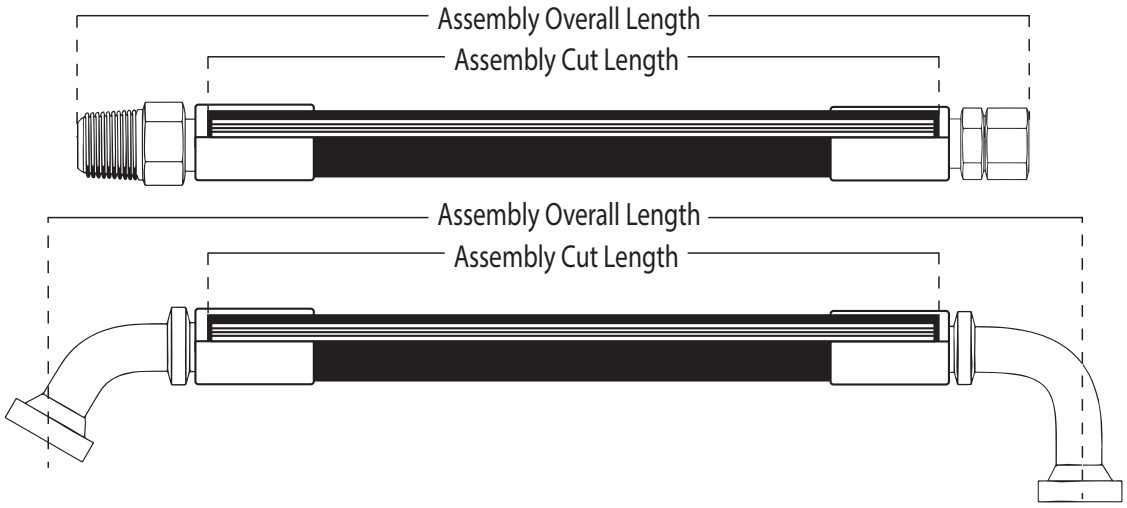
# How To Describe Truflow Hydraulic Hose

When you order hydraulic assemblies, be sure the following information is included as shown in the illustrations below:

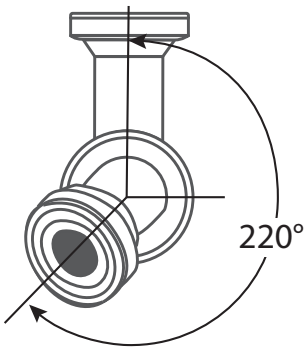
1. Quantity of assemblies required.
2. Hose catalog description (type and dash size).
3. Assembly overall length.
4. First tail dash size and end style.
5. Second tail dash size and end style.
6. Offset angle or orientation of couplings must be specified if both couplings contain bent tube ends.

**Example**




Measure from the centreline of flanged head to centerline of flanged head for length of assembly.
Orientation angle is measured with far hose tail vertically upward. Orientation angle is measured clockwise.

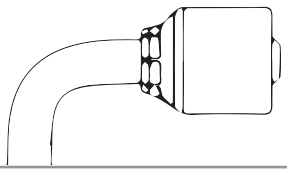


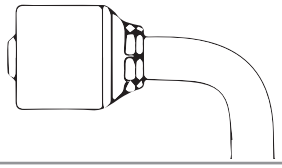

**CAUTION:**
Rated working pressure of the application should always determine selection of hose. Used up to the recommended rated working pressure, the hose will provide normal service life before replacement is required.
When new, the hose described in this catalog will meet or exceed the minimum burst pressure listed in the hose specification tables. However–as with any hose in the industry–after the hose has been impulsed for a length of time, minimum burst pressure will decrease from the figure shown in the specification tables.
Temperature ranges specified for specific hose refer to recommended temperature limits of fluids being conveyed or ambient temperatures. Exceeding these limits will cause degradation of material compounds and reduce hose service life.

# Truflow Hydraulic Hose- Order Form

Customer Name_____ Customer Order Number_____

Customer Asset# _____ Truflow Part Number _____





## Hose Tail (End) 1 Information

☐Male ☐Female
Angle___° Drop ☐S ☐M ☐L
Or Drop Length _____mm

| Thread | Size |
|---|---|
| ☐ BSPT | _____ |
| ☐ BSPP | _____ |
| ☐ JIC | _____ |
| ☐ Metric DIN Heavy | _____ |
| ☐ Metric DIN Light | _____ |
| ☐ NPT | _____ |
| ☐ SAE Code 61 | _____ |
| ☐ SAE Code 61 | _____ |
| ☐ ORFS | _____ |
| ☐ UNO | _____ |
| ☐ Other | _____ |

## Hose

Hose Part #_____
or
SAE 100 R_____
Dash Size
☐02 ☐03 ☐04 ☐05 ☐06
☐08 ☐10 ☐12 ☐16 ☐20
☐24 ☐32 ☐40 ☐48 ☐56
☐64
Temperature _____°C
Working Pressure_____[psi]
Application
☐Return Line ☐HighPressure Line
☐Intake/Suction Like ☐Pressure Line
☐Special Fluid

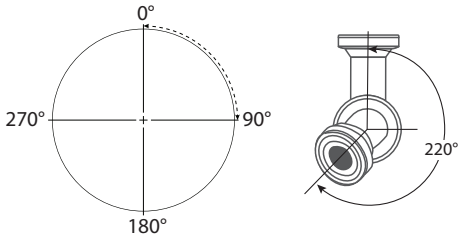
## Hose Tail (End) 2 Information

☐Male ☐Female
Angle ° Drop ☐S ☐M ☐L
Or Drop Length _____mm

| Thread | Size |
|---|---|
| ☐ BSPT | _____ |
| ☐ BSPP | _____ |
| ☐ JIC | _____ |
| ☐ Metric DIN Heavy | _____ |
| ☐ Metric DIN Light | _____ |
| ☐ NPT | _____ |
| ☐ SAE Code 61 | _____ |
| ☐ SAE Code 61 | _____ |
| ☐ ORFS | _____ |
| ☐ UNO | _____ |
| ☐ Other | _____ |

Overall Length_____mm

Hose Tail Orientation _____°




Measure from centreline of flanged head to centreline of flanged head for length of assembly.
Offset angle is measured with far coupling vertically downward. Orientation angle is measured clockwise.

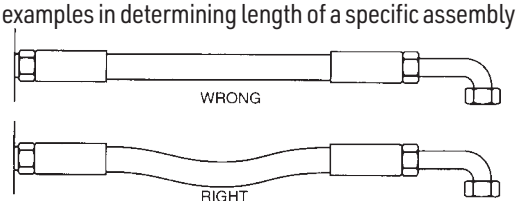
## Hose Protection

| | | Full Length | Partial Length | From End of Hose Tail |
|---|---|---|---|---|
| Hose Protection Wrap |  | ☐ | _____ | _____ |
| Burst Buster Sleeve |  | ☐ | _____ | _____ |
| Spring Guard |  | ☐ | _____ | _____ |
| Fire Sleeve |  | ☐ | _____ | _____ |

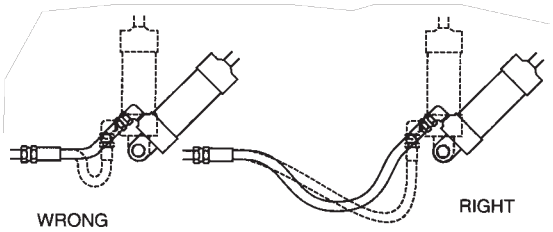
# Hose Assembly Routing Tips

Proper hose installation is essential for satisfactory performance. If hose length is excessive, the appearance of the installation will be unsatisfactory and unnecessary cost of equipment will be involved.
If hose assemblies are too short to permit adequate flexing and changes in length due to expansion or contraction, hose service life will be reduced.

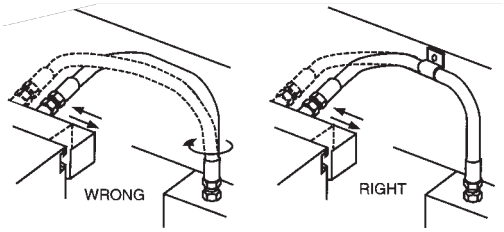
The following diagrams show proper hose installations which provide maximum performance and cost savings. Consider these examples in determining length of a specific assembly




When hose installation is straight, allow enough slack in hose line to provide for length changes which will occur when pressure is applied.



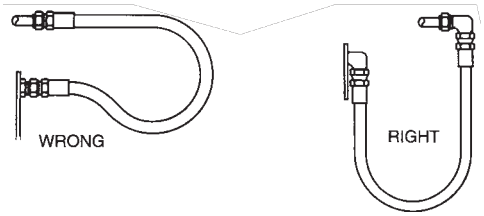

Adequate hose length is necessary to distribute movement on flexing applications and to avoid abrasion.



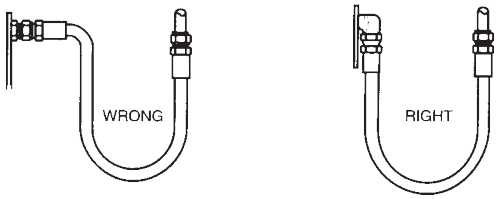

Avoid twisting of hose lines bent in two planes by clamping hose at change of plane.



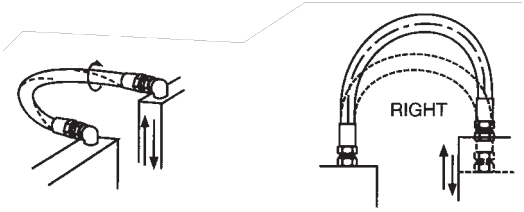

Reduce number of pipe thread joints by using hydraulic adapters instead of pipe fittings.



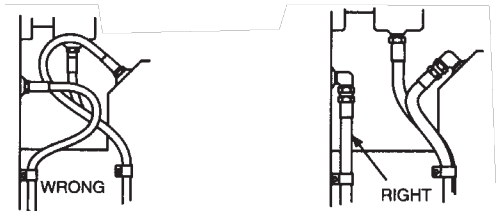

When radius is below the required minimum, use an angle adapter to avoid sharp bends.



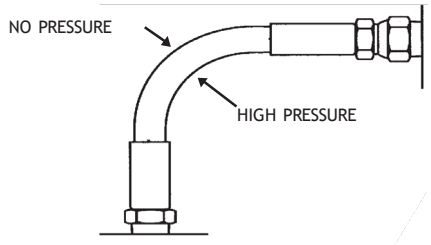

Use proper angle adapters to avoid tight bend in hose.



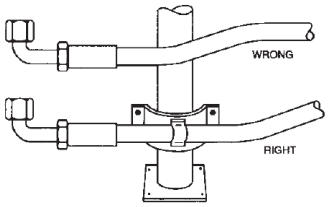

Prevent twisting and distortion by bending hose in same plane as the motion of the port to which hose is connected.



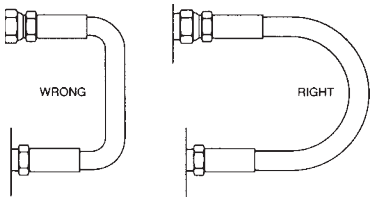

Route hose directly by using 45° and/or 90° adapter and fittings. Avoid excessive hose length to improve appearance.



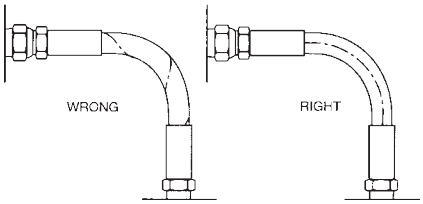

Note: To allow for length changes when hose is pressurized, do not clamp at bends so that curves will absorb changes. Do not clamp high and low pressure lines together.



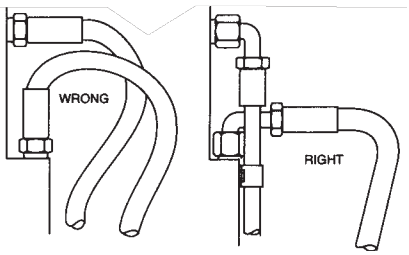

High ambient temperatures shorten hose life, so make sure hose is kept away from hot parts. If this is not possible, insulate hose.



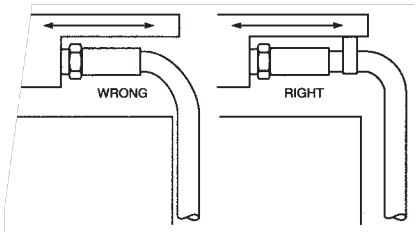

To avoid hose collapse and flow restriction, keep hose bend radius as large as possible. Refer to hose specification tables for minimum bend radius.




When installing hose, make sure it is not twisted. Pressure applied to a twisted hose can result in hose failure or loosening of connections.




Elbows and adapters should be used to relieve strain on the assembly, and to provide neater installations which will be more accessible for inspection and maintenance.




Run hose in the installation so that it avoids rubbing and abrasion. Often, clamps are required to support long hose runs or to keep hose away from moving parts. Use clamps of the correct size. A clamp too large allows hose to move inside the clamp and causes abrasion.

# Hydraulic Flareless Assembly Procedure

(per SAE J514 6.1.3 and 6.1.4)

Bottom the tube in the coupling, and tighten the nut until the ferrule just grips the tube. With a little experience, the technician can determine this point by feel. If the couplings are bench assembled, the gripping action can be determined by rotating the tube by hand as the nut is drawn down. When the tube can no longer be turned by hand, the ferrule has started to grip the tube.
After the ferrule grips the tube, tighten the nut one full turn. This may vary slightly with different tubing materials, but for general practice, it is a good rule for the technician to follow.

# Truflow Field Attachable Coupling Installation

1. Cut the hose end square with fine-tooth hacksaw or cut-off saw, the cut must be within 5° of perpendicular.
2. At a minimum be sure to blow out the hose to remove any rubber or metal dust, if higher levels of cleanliness are required utilize the MegaClean system or see the "Hose Assembly Cleanliness" tech note.
3. Be sure to thoroughly oil the stem and the inside of the hose. This is critical to ensure that the ferrule and stem are easily placed onto the hose, without removing tube or cover material.
4. Secure the ferrule in a vise or adjustable wrench,then using a clockwise motion, thread the hose into the ferrule until it bottoms out on the inside shoulder of the ferrule. Once fully inserted, using a counter-clockwise motion, turn the hose back one half turn.
5. With the hose and ferrule secured, thread the stem into the hose and ferrule in a clockwise motion until the stem hex contacts the ferrule.
6. Finally clean the assembly to ensure that the desired cleanliness levels are achieved. Follow the same procedure as in step 2.

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