

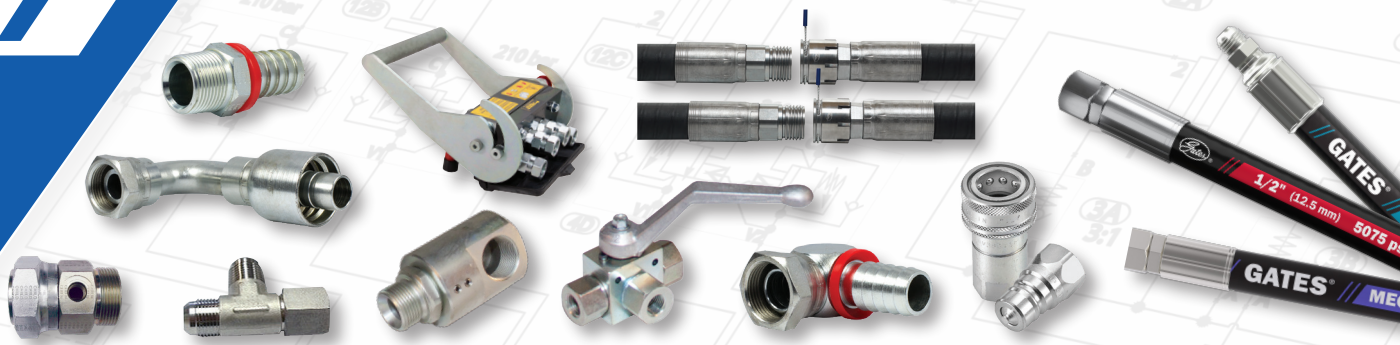
COMPLETE HYDRAULIC SOLUTIONS

PRODUCT GUIDE

November 2024



FLUID CONNECTORS



| | | | | |
|---------------------------|---------------------------|-------------------------|--------------------------|--------------------------|
| Adelaide 08 8228 2455 | Brisbane 07 3022 3700 | Emerald 07 4988 1800 | Laverton 03 9371 9000 | Mackay 07 4847 8800 |
| Melbourne 03 8793 6400 | Newcastle 02 4033 6900 | Perth 08 6216 4600 | Sydney 02 8814 2100 | Tasmania 03 6423 9900 |



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SAFETY+QUALITY+RELIABILITY

Important Warnings and Cautions

WARNINGS:

Do not mix and match products.

The mixing of product brands in hose assemblies is not recommended.

Hydraulic hose from one supplier has seldom been verified by testing with fittings from another. Performance capabilities of such mixed assemblies will therefore be unpredictable and are not guaranteed by either supplier.

Hose coupling specifications and published assembly instructions are not necessarily valid in these instances. It is the hose assembler's responsibility to consult with suppliers before intermixing hose and end fittings.

Similarly, assembly equipment is not usually interchangeable and it is the fabricator's responsibility to consult with the manufacturer for the correct equipment.

Always follow the manufacturer's instructions for correct preparation and fabrication of CHILD-GATES hose assemblies.

The welding of any CHILD fitting, including weld-on, salvage, lifesaver or any other components should only be carried out by suitably qualified personnel.

The company does not warrant the performance of such fittings or products, once welded (except by the company, its servants or its selling agents). These welded products should be tested and proved fit for the use intended. Not testing, not proving, faulty fabrication or faulty welding may result in an unsatisfactory or even dangerous product.

BE AWARE THAT:

Hydraulic fluid under pressure can be potentially dangerous!

An explosive burst or stream of escaping fluid can cause damage to equipment or serious injury to persons nearby.

Highly pressurised fluid escaping from a small pinhole can be almost invisible, and yet exert extreme force capable of penetrating the skin and other tissues, causing possible severe injury.

Pressurised fluids, if released uncontrolled, can exert a tremendous explosive force.

Hot fluids or chemicals can cause severe burns.

Some fluids are highly flammable.

CAUTIONS:

Working Pressures for Hose Assemblies

Since many factors influence the pressure at which a hydraulic system will or will not perform satisfactorily, stated maximum hose working pressures should not be exceeded.

For any severe applications it is recommended sufficient testing be conducted and reviewed by both the hose assembler and the machine manufacturer to assure performance levels will be safe and satisfactory.

While all care has been taken to ensure that information contained in this catalogue is true and correct at the time of publication, Southcott Hydraulics gives no warranty or assurance, and makes no representation as to the accuracy of any information or advice contained in this catalogue, or that it is suitable for your intended application.

Fluid Connectors Product Guide

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Nomographic Chart (Flow)

Flow Capacity of Hose Assemblies at Recommended Flow Velocities



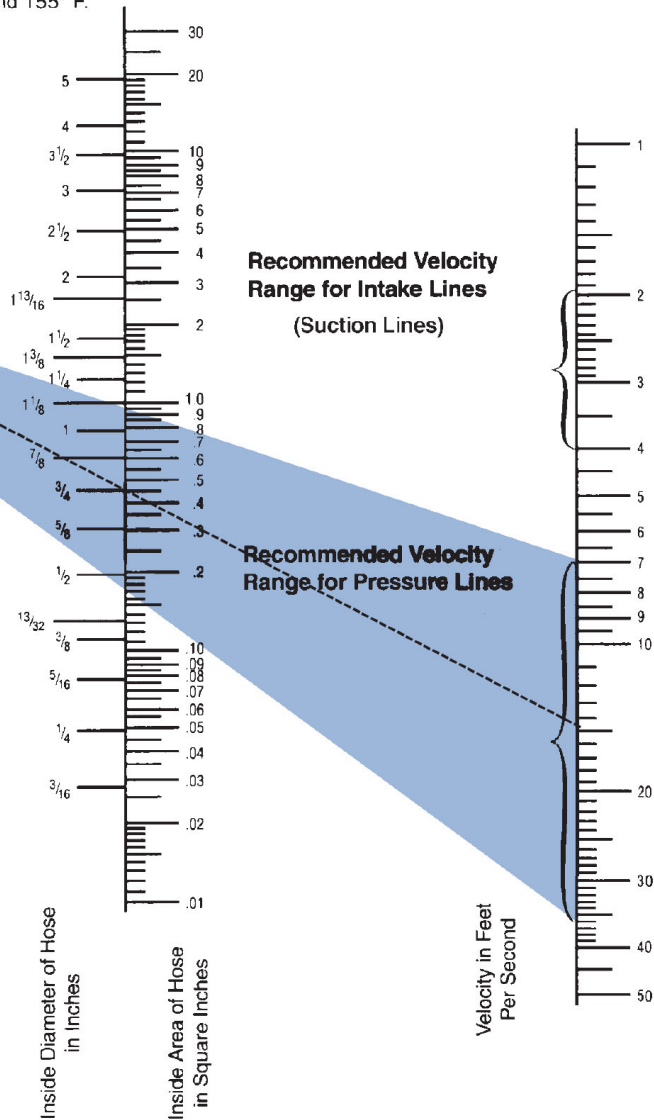
Based on Formula:

$$\text{Area (Sq.In.)} = \frac{0.321 \times (\text{GPM})}{\text{Velocity (Ft./Sec.)}}$$

Example: To determine the I.D. needed to transport 20 Gallons Per Minute (GPM) fluid volume...

Draw a straight line from 20 GPM on the left to maximum recommended velocity for pressure lines. The line intersects with the middle vertical column indicating a 3/4" I.D. (-12) hose. This is the smallest hose that should be used.

Recommendations are for oils having a maximum viscosity of 315 S.S.U. at 100° F, operating at temperatures between 65° F and 155° F.



OIL FLOW CAPACITY OF HOSE AND TUBING

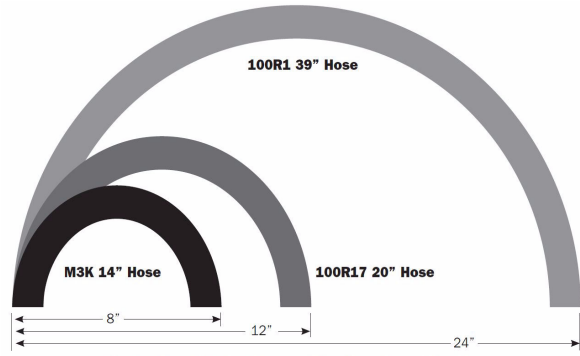
| INSIDE DIAMETER | SUCTION LINES (-0.25 TO 0 BAR) | | HIGH EFFICIENCY LINES (0 TO 35 BAR) | | CONTINUOUS RUN LINES (36 TO 207 BAR) | | INTERMITTENT RUN LINES (208 BAR & ABOVE) | |
|-----------------|-----------------------------------|---------|--|----------|---|----------|---|----------|
| | 1.2m/sec | 4ft/sec | 3m/sec | 10ft/sec | 4.5m/sec | 15ft/sec | 6.1m/sec | 20ft/sec |
| | L/min | US GPM | L/min | US GPM | L/min | US GPM | L/min | US GPM |
| 1/4" | 2.3 | 0.6 | 5.7 | 1.5 | 9 | 2.3 | 11 | 3 |
| 5/16" | 3.8 | 1 | 9 | 2.4 | 14 | 3.6 | 18 | 4.8 |
| 3/8" | 5.3 | 1.4 | 13 | 3.4 | 19 | 5 | 27 | 7 |
| 1/2" | 9.5 | 2.5 | 23 | 6 | 34 | 9 | 45 | 12 |
| 5/8" | 15 | 3.8 | 38 | 10 | 53 | 14 | 72 | 19 |
| 3/4" | 21 | 5.5 | 53 | 14 | 79 | 21 | 106 | 28 |
| 7/8" | 28 | 7.5 | 72 | 19 | 107 | 28 | 142 | 37 |
| 1" | 38 | 10 | 85 | 25 | 140 | 37 | 185 | 49 |
| 1-1/4" | 57 | 15 | 144 | 38 | 216 | 57 | 231 | 61 |
| 1-1/2" | 83 | 22 | 209 | 55 | 314 | 83 | 416 | 110 |
| 1-3/4" | 114 | 30 | 285 | 75 | 426 | 112 | 570 | 150 |
| 2" | 148 | 39 | 371 | 97 | 556 | 147 | 742 | 196 |
| 2-1/2" | 231 | 61 | 579 | 153 | 870 | 230 | 1158 | 306 |
| 3" | 333 | 88 | 832 | 220 | 1249 | 330 | 1669 | 441 |

MegaSys® Constant Pressure Hoses

Isobaric Hoses

The MegaSys® line consists of constant pressure spiral-wire and wire-braid hoses that can be bent up to one-third SAE specifications.

- Simplifies hose selection with constant pressure ratings
- Bends up to 1/3rd SAE bend radius specifications
- Saves overall hose assembly length
- Facilitates easier routing in tight applications
- Requires fewer bent tube fittings
- Eases installation with higher flexibility
- Lowers inventory requirements
- Extends life in bending/flexing applications
- Available with abrasion-resistant XtraTuff™ or MegaTuff® cover
- Reduces costs by as much as 64%



Up to One-Third SAE Bend Radius Specification
Illustration of 16M3K hose flexibility and reduced hose length requirements

MegaSys® Wire-Braid (Constant Pressure Hoses)

M3K, M4K, M5K and M6K Hoses

- Each hose features a constant working pressure
- Two braids of high-tensile steel wire (one braid in M3K -3, -4, -5, -6 and -8)
- Nitrile tube for use with biodegradable hydraulic fluids
- Tested to industry-leading 600,000 cycles
- Temperature range -40°F to +212°F (-40°C to +100°C)
- Available with abrasion-resistant XtraTuff® or MegaTuff® covers
- "H" versions -40°F to +250°F (-40°C to +121°C)
- "L" versions -70°F to +212°F (-57°C to +100°C)

MegaSys Hose Pressure Color Key

| | |
|----------|-----------|
| 3000 psi | M3K/EFQ3K |
| 4000 psi | M4K/EFQ4K |
| 5000 psi | M5K/EFQ5K |
| 6000 psi | M6K/EFQ6K |
| 8000 psi | G8K |

MegaSys® Spiral-Wire (Constant Pressure Hoses)

EFQ3K, EFQ4K, EFQ5K, EFQ6K and G8K Hoses

- Each hose features a constant working pressure
- Four alternating layers (six in some larger sizes) of spiralled, high-tensile steel
- Nitrile tube for use with biodegradable hydraulic fluids (Polychloroprene for G8K)
- Tested to industry-leading 1,000,000 impulse cycles
- Temperature range -40°F to +250°F (-40°C to +121°C)
- Available with abrasion-resistant XtraTuff® or MegaTuff® covers
- "L" versions -70°F to +212°F (-57°C to +100°C)

MegaSys Hose Pressure Color Key

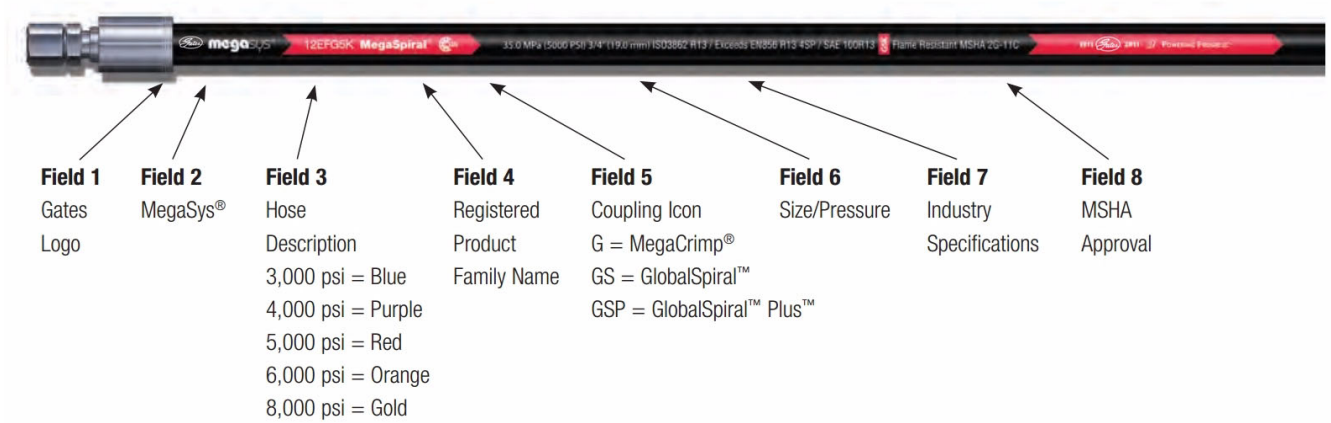
| | |
|----------|-------------|
| 3000 psi | M3K/EFQ3K * |
| 4000 psi | M4K/EFQ4K |
| 5000 psi | M5K/EFQ5K |
| 6000 psi | M6K/EFQ6K |

* M3K working pressure = 3250 psi

MegaSys® Constant Pressure Hoses

Isobaric Hoses

These laylines are used exclusively on MegaSys® hoses. Distinctive design and pressure colour coding make MegaSys® hoses easy to identify in stock or in service.



MegaTuff® and XtraTuff™ Covers

Nothing is harder on hydraulic hose covers than constant abrasion. Rubbed against metal or other hose, most standard hydraulic hoses - even ones with spring guards or nylon sleeving - can't take the punishment.

MegaTuff® covers: 300x more protection than standard hose covering

Gates MegaTuff® hoses are exceptionally resistant to abrasion thanks to a special cover construction and compounding that uses high-performance engineered plastics in an innovative manufacturing process. Also, the specially bonded cover stays put. It won't peel as do some competitive hose covers. MegaTuff® hoses maintain their flexibility and minimum bend radius. They are resistant to oil, ozone and UV rays and have been tested to 1,000,000 impulse cycles without failure. These tough hoses are ideally suited to harsh underground mining conditions.

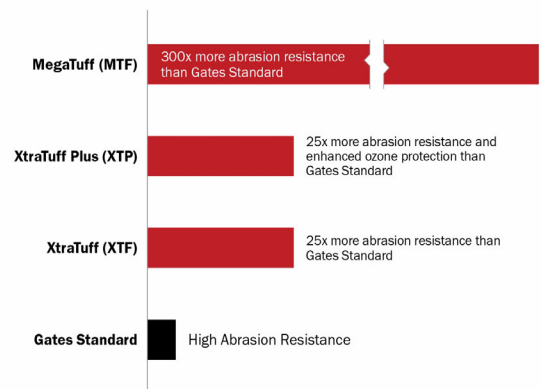
XtraTuff™ covers: 25x more protection than standard hose covering

Made of special hybrid compounds, Gates XtraTuff™ covers offer 25x the abrasion resistance of standard cover hydraulic hose, increasing service life, lowering maintenance and eliminating the need for costly hose protectors like spring guards and nylon sleeves. XtraTuff™ hose is versatile, flexible and easy to manage. With pressure ratings up to 5,000psi (35MPa) these hoses will outperform anything the competition has to offer.

XtraTuff™ Plus covers: All the protection of XtraTuff™, plus:

- Enhanced ozone protection - ideal for equipment operating outdoors
- Delivers exceptional durability, even at elevated temperatures (121°C/250°F operating environments)
- Smooth cover - easier to route
- No impact to flexibility
- Chloroprene free

ABRASION RESISTANCE COMPARISON



MegaSys® Size/Pressure Matrix

Isobaric Hoses

Gates revolutionised hose selection with the introduction of MegaSys hoses. Use the charts below for easy hose selection. Just find the required pressure and the chart will show you which hose meets that pressure in the applicable size.

SAE Specifications (Chart colors do not correspond to MegaSys hose color key system)

| I.D. | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
|----------|-------|-------|-------------|-------------|-------------|-------------|-------|-------|-------|-------|
| 3000 psi | M3K* | M3K* | M3K* | M3K* | M3K* | M3K* | M3K* | EFG3K | EFG3K | EFG3K |
| 4000 psi | M4K** | M4K** | M4K**/EFG4K | M4K**/EFG4K | M4K**/EFG4K | M4K**/EFG4K | EFG4K | EFG4K | | |
| 5000 psi | M5K | M5K | M5K | M5K/EFG5K | EFG5K | EFG5K | EFG5K | EFG5K | EFG5K | EFG5K |
| 6000 psi | M6K | | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K |
| 8000 psi | | | | | | G8K | G8K | | | |

■ Exceeds SAE 100R1 ■ Exceeds SAE 100R12 *M3K Exceeds SAE 100R17
■ Exceeds SAE 100R2 ■ Exceeds SAE 100R13 **M4K Exceeds SAE 100R19
■ Exceeds SAE 100R15

European Norm (EN) Specifications (Chart colors do not correspond to MegaSys hose color key system)

| I.D. | 04 | 05 | 06 | 08 | 10 | 12 | 16 | 20 | 24 | 32 |
|-----------|-----|-----|-----------|-----------|-----------|-----------|-------|-------|-------|-------|
| 210bar/3K | M3K | M3K | M3K | M3K | M3K | M3K | M3K | EFG3K | EFG3K | EFG3K |
| 280bar/4K | M4K | M4K | M4K/EFG4K | M4K/EFG4K | M4K/EFG4K | M4K/EFG4K | EFG4K | EFG4K | | |
| 350bar/5K | M5K | M5K | M5K | M5K/EFG5K | EFG5K | EFG5K | EFG5K | EFG5K | EFG5K | EFG5K |
| 420bar/6K | M6K | | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K | EFG6K | | |
| 560bar/8K | | | | | | G8K | G8K | | | |

■ Exceeds 1SN/1SC ■ Exceeds 4SP
■ Exceeds 2SN/2SC ■ Exceeds 4SH

ISO18752 is the international standard specifying requirements for nine classes, four grades and seven types of wire - or textile reinforced hydraulic hoses and hose assemblies of nominal sizes. Each class has a single maximum working pressure for all sizes.

The MegaSys product exceeds the SAE and EN specifications and are aligned and exceed the performance matrix requirements of ISO18752.

| PSI | 18752 ISO A | 18752 ISO B | 18752 ISO C | 18752 ISO D |
|----------|-------------|-------------|-------------|-------------|
| 3000 PSI | M3K | M3K | M3KH | EFG3K |
| 4000 PSI | M4K | M4K | M4KH | EFG4K |
| 5000 PSI | M5K | M5K | EFG5K | EFG5K |
| 6000 PSI | M6K | M6K | EFG6K | EFG6K* |

*12 only, other sizes under qualification

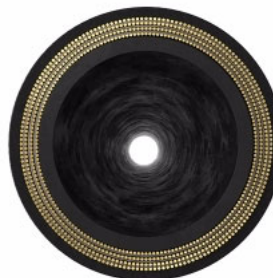
NB: Data provided may have changed. Always refer to the product manufacturer's technical catalogue for current information.

GATES® XPIRAL™ REINFORCEMENT TECHNOLOGY

Gates® continue to push materials science, process technologies and design innovations to deliver a wire reinforcement capable of high-pressure hydraulics in some of the most demanding hydraulic applications.

Innovative Xpiral™ construction enables weight savings and flexibility without compromising performance.

| XPIRAL™ | TRADITIONAL WIRE SPIRAL |
|---|---|
| Next-generation Nitrile Tube | Nitrile Tube |
| 4-spiral wire plies wrapped in alternating directions | 4-spiral wire plies wrapped in alternating directions |
| Flexibility from woven spiral | Layered spiral |
| Next-generation Nitrile XtraTuff™ Plus cover with abrasion and ozone resistance | Chloroprene cover |
| Smooth cover | Wrapped cover |
| Impulse tested at 133% of working pressure | Impulse tested at 12-% working pressure |
| Operating Temperatures: -40°C to 121°C (-40°F to 250°F) | Operating Temperatures: -40°C to 121°C (-40°F to 250°F) |
| Capable of 1M impulse cycle performance | Capable of 1M impulse cycle performance |



Xpiral™ technology allows for higher density than traditional spiral reinforcement and delivers:

- Same Performance
- Smaller Package
- Lower Weight
- More Flexibility

TEMPERATURE LIMITS FOR GATES HYDRAULIC HOSE

Caution: Water, water/oil emulsions and water/glycol solutions must be kept below the temperatures listed in the table opposite, relative to line pressures.

The fluid manufacturer’s recommended maximum operating temperature for any given fluid must not be exceeded. If different to the above listed hose temperatures, the lower limit must take precedence. See the Gates Hydraulic Hose Catalogue for further information.

DO NOT expose hose to maximum temperature and maximum working pressure at the same time.

| Hose | Pressure Lines | Return Lines |
|---|--------------------|-------------------|
| G8K, EFG6K, EFG5K, EFG4K, EFG3K, G2, G2L, M2T®, M6K, M5K, M4K, M3K, RFS, RLA, C5C, C5E, LOC, LOL | +93°C (+200°F) | +82°C (+180°F) |
| G2H, G1H, MegaTech® Line, G2XH, C5D, G3H, GTH, G4H, GMV, RLC, TR500, M3KH, M4KH, MXG™4K, MXG™5K, MXT™-XTP | +107°C (+225°F) | +82°C (+180°F) |

GATES® MXG™ HYDRAULIC HOSE WITH XTRATUFF™ PLUS COVER

HIGH-PRESSURE PERFORMANCE DEFINED

Built with our proprietary Xpiral™ process technology, MegaSys™ MXG™ hose is lightweight, highly flexible and qualified to ONE MILLION impulse cycles. The XtraTuff™ Plus abrasion-resistant cover offers improved ozone resistance, withstanding operating temperatures up to 121°C and delivers exceptional durability to power your most demanding fluid power applications.

FEATURES & BENEFITS:

- Proprietary application of materials science and processing technology
- Exceeds performance criteria of:
 - MXG™ 4K:** ISO 18752 280DC, SAE 100R12, EN856 R12 and ISO 3862 R12; size -16 also rated for EN 856 4SP. For inventory consolidation, also exceeds SAE 100R19
 - MXG™ 5K:** ISO 18752 350DC, SAE 100R13, EN856 R13, and ISO 3862 R13; sizes -10, -12 and -16 also rated for EN856 4SP
- 1,000,000 cycle impulse life exceeds industry standards (2x spiral and 5x wire braid standards) with Gates® GlobalSpiral™ couplings
- **MXG™ 4K:** 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
- Lighter weight for easier handling and installation (**MXG™ 4K** 30% lighter, **MXG™ 5K** 20%)
- Gates® XtraTuff™ Plus cover comes standard on MXG™ hose, providing abrasion and ozone resistance
- Utilises Gates® GlobalSpiral™ couplings compatible with Gates® crimpers.
MXG™ 4K & MXG™ 5K with XtraTuff™ Plus cover has ABS, DNV, MSHA and MDG41 FRAS certification



GATES® MXT™ HYDRAULIC HOSE WITH XTRATUFF™ PLUS COVER

DESIGNED TO DELIVER OPTIMISED PERFORMANCE AND EXTRAORDINARY DURABILITY

MXT™ 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. Made with strong, high-performance reinforcement and high-quality, abrasion-resistant rubber, MXT™ is a universally applicable premium product offering performance above industry standards. Its diversified application allows you to consolidate inventory while giving you exactly the hose you need, when you need it.

The XtraTuff™ Plus cover on MXT™ hose offers improved abrasion and ozone resistance, delivering increased durability to power your most demanding fluid power applications.

FEATURES & BENEFITS:

- Patent-pending in the U.S.
- Proprietary application of materials science and processing technology
- Gates® XtraTuff™ Plus cover available on MXT™, providing increased abrasion and ozone resistance
- More flexible with up to 40% lower force-to-bend for faster and more ergonomic installation
- Up to 30% lighter weight for easier handling
- Tested to 3x impulse criteria (600,000 cycles)
- Consolidate inventory with a universal, multi-use hose
- MXT™ with XtraTuff™ Plus cover has MSHA and MDG41 FRAS certification

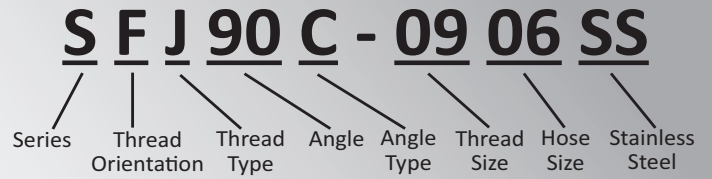


CHILD COUPLING END STYLE NOMENCLATURE



Child couplings feature description by combining end-style codes shown below that make thread end identification fast and easy. Always refer to Child Crimp Data Charts when selecting hose and coupling combinations.

In the following example, the Child description **SFJ90C-0906SS** identifies a **Supercrimp Female JIC** swivel **90°** Close drop **Stainless Steel** coupling for **-09** (9/16") thread and **-06** (3/8") hose size (Child couplings indicate thread size first).



| Code | Description |
|---------------------------|---------------------------------|
| Series | |
| E | Ezicrimp – 1 Piece |
| S | Supercrimp – 2 Piece |
| R | Field-Fit – Suit G1,G2, R3 Hose |
| L | Lock-On – Suit Pushlock Hose |
| Thread Orientation | |
| F | Female |
| M | Male |
| Thread Type | |
| B | BSP Tapered |
| DKL | DIN Light Series |
| DKS | DIN Heavy Series |
| DKO | DIN Heavy Series & O-Ring |
| FL | Flange Code 61 |
| FLH | Flange Code 62 |
| FLK | Flange Komatsu |
| FO | Flat Face O-Ring (ORFS) |
| G | Grease Fitting |
| GAZ | French GAZ |
| HJ | Hose Joiner |
| IX | Inverted Flare |
| J | JIC |
| K | JIS-Metric (Japanese) |
| LS | Life Saver |
| N | NPT |
| NF | NPT – Female Fixed |

| Code | Description |
|------------------------------------|----------------------------|
| Thread Type (Continued) | |
| NL | NPT – Long Series |
| NP | JIS-BSPP (Japanese) |
| OX | SAE O-Ring Boss Swivel |
| P | BSP Parallel |
| R | Encapsulated O-Ring (BSPP) |
| S | SAE |
| SS | Staple Series |
| Angle | |
| (None) | Straight |
| 22 | 22.5° Bend |
| 30 | 30° Bend |
| 45 | 45° Bend |
| 60 | 60° Bend |
| 67 | 67.5° Bend |
| 90 | 90° Bend |
| 110 | 110° Bend |
| 135 | 135° Bend |
| Angle Type | |
| (None) | Standard Drop |
| C | Close Drop |
| S | Short Drop |
| M | Medium Drop |
| L | Long Drop |
| Material or Special Request | |
| (None) | Steel |
| SS | Stainless Steel |
| Z | Special Request |

GATES COUPLING AND ADAPTOR END STYLE NOMENCLATURE

Gates couplings feature a meaningful description by combining end-style codes shown below that make thread end identification fast and easy. Always refer to Gates Crimp Data Manual when selecting hose and coupling combinations.



12 GS - 12 F J X 90 L

Hose Dash Size (3/4") Stem Type (Global Spiral) Thread Size (1-1/16") Female JIC Swivel Degree of Bend (90°) Drop Length (Long)

In the following example, the Gates description **12GS-12FJX90L** identifies a **GlobalSpiral™ Female JIC Swivel(X) 90° Bend Long Drop** coupling for **-12 (3/4")** hose size and **-12 (1-1/16")** thread size.

| Code | Description |
|--------|--|
| A | Adaptorless |
| AB | Air Brake |
| API | API Unions |
| B | Brass |
| BBDS | British Bonded Seal |
| BJ | Banjo |
| BKHD | Bulkhead |
| BL | Block |
| BS | Bite Sleeve |
| BSPP | British Standard Pipe Parallel |
| BSPT | British Standard Pipe Tapered |
| C | Caterpillar Flange |
| CC | Clamping Collar |
| DH | DIN Heavy |
| DL | DIN Light |
| F | Female |
| FABX | Female Air Brake Swivel |
| FBFFOR | Female British Flat-Face |
| O-Ring | |
| FBO | Female Braze-on Stem |
| FF | Flat-Face |
| FFGX | Female French GAZ Swivel (Female Kobelco) |
| FFN | Female Flareless Nut |
| FOR | Flat-Face O-Ring |
| FFS | Female Flareless Sleeve |
| FG | Female Grease Thread |
| FKX | Female Komatsu Style Swivel |
| FL | Code 61 O-Ring Flange |
| FLC | Caterpillar Style O-Ring Flange |
| FLH | Code 62 O-Ring Flange Heavy |
| FLOS | Flange O-Ring Special |
| FT | Female SAE Tube |
| HLE | Hose Length Extender |
| HLEC | Hose Length Extender (Caterpillar) |
| HM | Hose Mender |
| HU | Hammer Union |
| I | Inverted Flare |
| J | JIC (37° Flare) |
| JIS | Japanese Industrial Standard |
| K | Komatsu Style (Japanese 30° Seat) |

| Code | Description |
|------|----------------------------------|
| LH | Long Hex |
| LN | Lock Nut |
| M | Male |
| MB | Male Boss |
| MBAX | Male Boss Adaptorless Swivel |
| MBDS | Metric Bonded Seal |
| MFA | Male Flareless Assembly (Ermeto) |
| MFG | Male French GAZ |
| MKB | Metric Kobelco |
| MM | Metric Male |
| MN | Metric Nut |
| MPG | Male Special Grease Fitting |
| MPLN | Male Pipe Long Nose |
| MLSP | Metric Light Stand Pipe |
| MSP | Metric Stand Pipe |
| NASP | North American Stand Pipe |
| OR | O-Ring |
| P | Pipe Thread (NPTF or NPSM) |
| PL | Press Lok® |
| PT | Port |
| PWX | Pressure Washer Swivel |
| QLD | Quick-Lok® Direct |
| QHD | Quick-Lok® High |
| R | Field Attachable |
| S | SAE (45° Flare) |
| SP | Special |
| SS | Stainless Steel |
| TS | Tube Sleeve |
| TSN | Tube Sleeve Nut |
| X | Swivel |
| Z | Parker Triple Thread |
| 22 | 22.5° Bent Tube Angle |
| 30 | 30° Bent Tube Angle |
| 45 | 45° Bent Tube Angle |
| 60 | 60° Bent Tube Angle |
| 67 | 67.5° Bent Tube Angle |
| 90 | 90° Bent Tube Angle |
| 110 | 110° Bent Tube Angle |
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Hydraulic Hose

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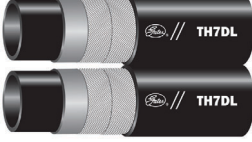








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My Notes

Section 1 Hydraulic Hose



G8K Spiral Wire Hose. Ultra High Pressure Meets Flame Resistance Acceptance Designation MSHA 2G

 8,000psi
551 Bar

Recommended For: Ultra high pressure, high impulse applications such as hydrostatic transmissions for use in the construction, agriculture, forestry, underground or open pit mining, or other industries on applications where extremely high pressure capability is required.



Tube: Black, oil resistant (Polychloroprene).

See *Hose Stock Characteristics*.

Reinforcement: Six alternating layers of high-tensile steel wire spiral construction.

Cover: Black, oil resistant, synthetic rubber (Polychloroprene) with colour-coded layline.






See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number |  | | |  | |  | |  | |  | | Length | |
|-------------|---|------|----|---|------|---|-----|---|------|---|-----|--------|--------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | Carton |
| 12G8K | 12 | 3/4 | 19 | 1.36 | 34.5 | 8000 | 551 | 32000 | 2206 | 9.5 | 241 | 30 | - |
| 16G8K | 16 | 1 | 25 | 1.66 | 42.2 | 8000 | 551 | 32000 | 2206 | 12.0 | 305 | 30 | - |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | Associated Protective Product Guide | | | | | | |
|-----------|---|---------|-------------------------------------|-----------------|---------------|----------------|--------------------------|---------------|-------------------------|
| | Gates 2 Piece Series Coupling Ferrule | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex- Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 12G8K | 12G8K | 12G8K1F | HSG-11 | SGX40 | HTG-28 | TEXS53 | SB48 | - | - |
| 16G8K | 16G8K | 16G8K1F | HSG-13 | SGX50 | HTG-32 | TEXS66 | SB54 | - | - |



Section 1

Hydraulic Hose

EFG6K Spiral Wire Hose - SAE 100R15

6,000psi
420 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Extremely high pressure, high impulse applications such as hydrostatic transmissions.

Standards: EFG6K is designed to meet 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).



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Four (six for -20, -24 & -32) alternating layers of spiraled, high-tensile steel.

Cover: Black, oil resistant, synthetic rubber (Polychloroprene).

Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | Dash | ⊖ | | ⊕ | | ⊖ | | ⊕ | | ⊖ | | Length | |
|-------------|----------|------|-------|----|------|------|------|-----|-------|------|------|-----|--------|------|
| | | | in | DN | in | mm | psi | bar | psi | bar | in | mm | Carton | Bulk |
| Standard | MegaTuff | | | | | | | | | | | | m | |
| 6EFG6K | -MTF | 6 | 3/8 | 10 | 0.80 | 20.3 | 6000 | 420 | 24000 | 1680 | 2.5 | 64 | 30 | - |
| 8EFG6K | -MTF | 8 | 1/2 | 12 | 0.95 | 24.1 | 6000 | 420 | 24000 | 1680 | 3.5 | 89 | 30 | - |
| 10EFG6K | -MTF | 10 | 5/8 | 16 | 1.09 | 27.7 | 6000 | 420 | 24000 | 1680 | 4.0 | 102 | 30 | 61 |
| 12EFG6K | -MTF | 12 | 3/4 | 19 | 1.24 | 31.5 | 6000 | 420 | 24000 | 1680 | 4.7 | 119 | 30 | 61 |
| 16EFG6K | -MTF | 16 | 1 | 25 | 1.53 | 38.9 | 6000 | 420 | 2,000 | 1680 | 6.0 | 152 | 30 | 61 |
| 20EFG6K | -MTF | 20 | 1-1/4 | 31 | 1.97 | 50.0 | 6000 | 420 | 24000 | 1680 | 8.2 | 208 | 15 | 61 |
| 24EFG6K | -MTF | 24 | 1-1/2 | 38 | 2.26 | 57.4 | 6000 | 420 | 24000 | 1680 | 10.0 | 254 | 15 | 61 |
| 32EFG6K | -MTF | 32 | 2 | 51 | 2.80 | 71.1 | 6000 | 420 | 24000 | 1680 | 25.0 | 635 | 15 | 61 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|-------------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Standard MegaTuff | Gates | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 1 Piece Series | | 2 Piece Series Coupling | Ferrule | | | | | | | |
| 6EFG6K | - | 6GS | 6GS1F-4 | HSG-05 | SGX20 | HTG-18 | TEXS31 | SB29 | - | - |
| 8EFG6K | - | 8GS | 8GS1F-4 | HSG-07 | SGX25 | HTG-20 | TEXS40 | SB34 | - | - |
| 10EFG6K | - | 10GS | 10GS1F-4 | HSG-09 | SGX25 | HTG-22 | TEXS44 | SB34 | - | - |
| 12EFG6K | - | 12GS | 12GS1F-4 | HSG-10 | SGX32 | HTG-24 | TEXS53 | SB41 | - | - |
| 16EFG6K | - | 16GS | 16GS1F-4 | HSG-12 | SGX40 | HTG-30 | TEXS60 | SB48 | - | - |
| 20EFG6K | - | 20GS | 20GS1F-6 | HSG-14 | SGX50 | HTG-38 | TEXS85 | SB60 | - | - |
| 24EFG6K | 24GSM | - | - | HSG-15 | SGX63 | HTG-44 | TEXS93 | SB67 | - | - |
| 32EFG6K | 32GSM | - | - | HSG-16 | SGX75 | HTG-64 | TEXS112 | SB86 | - | - |

Section 1 Hydraulic Hose



EFG5K Spiral Wire Hose - SAE 100R13

Xpiral Alternative Hose: MXG5K-XTP. Only for hose sizes -6 to -16



5,000psi
350 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Extremely high pressure, high impulse applications.

Standards: Exceeds all requirements of ISO 18752 Grade D (except for -24) and SAE 100R13, and performance requirements of EN 856 4SH (-16 & -20), EN 856 4SP (-10 & -12), EN 856 R13 and ISO 3862 Type R13 (-12, -16, -20, -24, -32).



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Four (six for -20, -24 & -32) alternating layers of spiraled, high-tensile steel wire.

Cover: Black, oil resistant, synthetic rubber (Polychloroprene).

Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | ⊖ | | | ⊕ | | ⊕ | | ⊕ | | ⊕ | | Length | |
|-------------|----------|------|-------|----|------|------|------|-----|-------|------|------|-----|--------|------|
| | | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | Carton | Bulk |
| Standard | MegaTuff | | | | | | | | | | | | | m |
| 6EFG5K | -MTF | 6 | 3/8 | 10 | 0.80 | 20.3 | 5000 | 350 | 20000 | 1400 | 2.5 | 64 | 30 | - |
| 8EFG5K | -MTF | 8 | 1/2 | 12 | 0.95 | 24.1 | 5000 | 350 | 20000 | 1400 | 3.5 | 89 | 30 | 61 |
| 10EFG5K | -MTF | 10 | 5/8 | 16 | 1.09 | 27.7 | 5000 | 350 | 20000 | 1400 | 4.0 | 102 | 30 | 61 |
| 12EFG5K | -MTF | 12 | 3/4 | 19 | 1.24 | 31.5 | 5000 | 350 | 20000 | 1400 | 4.7 | 119 | 30 | 61 |
| 16EFG5K | -MTF | 16 | 1 | 25 | 1.53 | 38.9 | 5000 | 350 | 20000 | 1400 | 6.0 | 152 | 30 | 61 |
| 20EFG5K | -MTF | 20 | 1-1/4 | 31 | 1.97 | 50.0 | 5000 | 350 | 20000 | 1400 | 8.2 | 208 | 15 | 61 |
| 24EFG5K | -MTF | 24 | 1-1/2 | 38 | 2.26 | 57.4 | 5000 | 350 | 20000 | 1400 | 10.0 | 254 | 15 | 61 |
| 32EFG5K | -MTF | 32 | 2 | 51 | 2.80 | 71.1 | 5000 | 350 | 20000 | 1400 | 25.0 | 635 | 15 | 61 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|-------------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Standard MegaTuff | Gates | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 1 Piece Series | | 2 Piece Series Coupling | Ferrule | | | | | | | |
| 6EFG5K | - | 6GS | 6GS1F-4 | HSG-05 | SGX20 | HTG-18 | TEXS31 | SB29 | 16LG5K | 6SC4 |
| 8EFG5K | - | 8GS | 8GS1F-4 | HSG-07 | SGX25 | HTG-20 | TEXS40 | SB34 | 20LG5K | 8SC4 |
| 10EFG5K | - | 10GS | 10GS1F-4 | HSG-09 | SGX25 | HTG-22 | TEXS44 | SB34 | 22LG5K | 10SC4 |
| 12EFG5K | - | 12GS | 12GS1F-4 | HSG-10 | SGX32 | HTG-24 | TEXS53 | SB41 | 26LG5K | 12SC4 |
| 16EFG5K | - | 16GS | 16GS1F-4 | HSG-12 | SGX40 | HTG-30 | TEXS60 | SB48 | - | - |
| 20EFG5K | - | 20GS | 20GS1F-6 | HSG-14 | SGX50 | HTG-38 | TEXS85 | SB60 | - | - |
| 24EFG5K | 24GSM | | | HSG-15 | SGX63 | HTG-44 | TEXS93 | SB67 | - | - |
| 32EFG5K | 32GSM | | | HSG-16 | SGX75 | HTG-64 | TEXS112 | SB86 | - | - |



Section 1

Hydraulic Hose

EFG4K Spiral Wire Hose - SAE 100R12

4,000psi
280 Bar

Xpiral Alternative Hose: MXG4K-XTP. Only for hose sizes -6 to -16

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Very high pressure, high impulse applications.

Standards: Exceeds all requirements of ISO 18752 Grade D, SAE 100R12, EN 856 R12 and ISO 3862 Type R12.

Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Four alternating layers of spiraled, high-tensile steel wire.

Cover: Black, oil resistant, synthetic rubber (Polychloroprene).

Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | ⊖ | | | ⊕ | | ⊙ | | ⊙ | | ⊙ | | Length | |
|-------------|------|----------|----------|------|------|------|------|-----|-------|------|-----|-----|--------|----|
| | | Standard | MegaTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm |
| 6EFG4K | -MTF | 6 | 3/8 | 10 | 0.80 | 20.3 | 4000 | 280 | 16000 | 1120 | 2.5 | 64 | 30 | - |
| 8EFG4K | -MTF | 8 | 1/2 | 12 | 0.94 | 23.9 | 4000 | 280 | 16000 | 1120 | 3.5 | 89 | 30 | 61 |
| 10EFG4K | -MTF | 10 | 5/8 | 16 | 1.09 | 27.7 | 4000 | 280 | 16000 | 1120 | 4.0 | 102 | 30 | 61 |
| 12EFG4K | -MTF | 12 | 3/4 | 19 | 1.21 | 30.7 | 4000 | 280 | 16000 | 1120 | 4.7 | 119 | 30 | 61 |
| 16EFG4K | -MTF | 16 | 1 | 25 | 1.50 | 38.1 | 4000 | 280 | 16000 | 1120 | 6.0 | 152 | 30 | 61 |
| 20EFG4K | -MTF | 20 | 1-1/4 | 31 | 1.85 | 47.0 | 4000 | 280 | 16000 | 1120 | 8.2 | 208 | 15 | 61 |


Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | | |
|-----------|-------------------------|----------|-------------------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | 2 Piece Series Coupling | Ferrule | 2 Piece Series Coupling | Ferrule | | | | | | | | |
| 6EFG4K | 6GS | 6GS1F-4 | S | FNS-06 | HSG-05 | SGX20 | HTG-18 | TEXS31 | SB29 | 16LG4K | 6SC4 | |
| 8EFG4K | 8GS | 8GS1F-4 | S | FNS-08 | HSG-07 | SGX25 | HTG-20 | TEXS36 | SB34 | 20LG4K | 8SC4 | |
| 10EFG4K | 10GS | 10GS1F-4 | S | FNS-10 | HSG-09 | SGX25 | HTG-22 | TEXS44 | SB34 | 22LG4K | 10SC4 | |
| 12EFG4K | 12GS | 12GS1F-4 | S | FNS-12 | HSG-10 | SGX32 | HTG-24 | TEXS47 | SB41 | 26LG4K | 12SC4 | |
| 16EFG4K | 16GS | 16GS1F-4 | S | FNS-16 | HSG-12 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 | |
| 20EFG4K | 20GS | 20GS1F-4 | S | FNS-20 | HSG-14 | SGX50 | HTG-38 | TEXS73 | SB60 | - | - | |

Section 1 Hydraulic Hose



EFG3K Spiral Wire Hose - SAE 100R12

 3,000psi
210 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Very high pressure, high impulse applications.

Standards: Exceeds all requirements of ISO 18752 Grade D, SAE 100R12, EN 856 R12 and performance requirements of EN 856 4SP and ISO 3862 Type R12.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Four alternating layers of spiraled, high-tensile steel wire.

Cover: Black, oil resistant, synthetic rubber (Polychloroprene).

Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | ⊖ | | | ⊕ | | ⊕ | | ⊕ | | ⊕ | | Length | |
|-------------|------|----------|----------|------|------|------|------|-----|-------|-----|------|-----|--------|----|
| | | Standard | MegaTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm |
| 20EFG3K | -MTF | 20 | 1-1/4 | 31 | 1.85 | 47.0 | 3000 | 210 | 12000 | 840 | 8.2 | 208 | 15 | 61 |
| 24EFG3K | -MTF | 24 | 1-1/2 | 38 | 2.11 | 53.6 | 3000 | 210 | 12000 | 840 | 10.0 | 254 | 15 | 61 |
| 32EFG3K | -MTF | 32 | 2 | 51 | 2.63 | 66.8 | 3000 | 210 | 12000 | 840 | 12.5 | 318 | 15 | 61 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|----------------|----------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | 2 Piece Series | 2 Piece Series | 2 Piece Series | | | | | | | | | |
| MegaTuff | Coupling | Ferrule | Coupling | Ferrule | | | | | | | | |
| 20EFG3K | 20GS | 20GS1F-4 | - | - | HSG-14 | SGX50 | HTG-38 | TEXS73 | SB60 | - | - | |
| 24EFG3K | 24GSP | 24GSP1F-4 | S | FNS-24 | HSG-15A | SGX63 | HTG-44 | TEXS85 | SB67 | - | - | |
| 32EFG3K | 32GSP | 32GSP1F-4 | - | - | HSG-16 | SGX75 | HTG-64 | TEXS112 | SB79 | - | - | |



Section 1

Hydraulic Hose

Global M5K Mega5000™ Hose

5,000psi
350 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: High pressure hydraulic applications.

Standards: Exceeds ISO 18752 Grade B.

Provides tighter than standard minimum bend radius and greater flexibility for easier plumbing.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil, abrasion and weather resistant synthetic rubber (Nitrile & PVC (-4, -6), Polychloroprene (-8)). Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® or XtraTuff™ cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|----------|------|-----|----|------|------|------|-----|-------|------|-----|----|-------------|
| Standard | MegaTuff | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4M5K | -MTF | -XTF | 4 | 1/4 | 6 | 0.55 | 14.0 | 5000 | 350 | 20000 | 1400 | 2.0 | 51 | 134 |
| 6M5K | -MTF | -XTF | 6 | 3/8 | 10 | 0.70 | 17.8 | 5000 | 350 | 20000 | 1400 | 2.5 | 64 | 100 |
| 8M5K | -MTF | -XTF | 8 | 1/2 | 12 | 0.86 | 21.8 | 5000 | 350 | 20000 | 1400 | 3.5 | 89 | 67 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|---------------------------------|-------------------|-------------------------------------|------------|------------|--------------------|------------|-------------------|------|
| | Gates | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | 1 Piece Series | 2 Piece Series Coupling Ferrule | | | | | | | | |
| MegaTuff | | | | | | | | | | |
| XtraTuff | | | | | | | | | | |
| 4M5K | 4G | - | - | HSG-02 | SGX12 | HTG-14 | TEXS23 | SB19 | 14LG5K | 6SC4 |
| 6M5K | 6G | 6GS | 6GS1F-2 | HSG-04 | SGX16 | HTG-16 | TEXS27 | SB25 | 16LG5K | 6SC4 |
| 8M5K | 8G | 8GS | 8GS1F-2 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB29 | 20LG5K | 8SC4 |

Section 1 Hydraulic Hose



Global M4K Mega4000™ Hose - SAE 100R19



4,000psi
280 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G and ISO 11237 R19

Recommended For: High pressure hydraulic applications.

Standards: Exceeds ISO 18752 Grade B, SAE 100R19 and ISO 11237 R19.

Allows for tighter minimum bend radius, increased working pressure and improved impulse cycles than industry standards. Provides greater performance, flexibility, easier routing and plumbing of mobile and stationary hydraulic platforms.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil, abrasion and weather-resistant synthetic rubber (Modified Nitrile and PVC). Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® or XtraTuff™ cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|----------|------|-----|----|------|------|------|-----|-------|------|-----|-----|-------------|
| Standard | MegaTuff | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4M4K | -MTF | -XTF | 4 | 1/4 | 6 | 0.55 | 14.0 | 4000 | 280 | 16000 | 1120 | 1.5 | 38 | 134 |
| 6M4K | -MTF | -XTF | 6 | 3/8 | 10 | 0.70 | 17.8 | 4000 | 280 | 16000 | 1120 | 2.0 | 51 | 100 |
| 8M4K | -MTF | -XTF | 8 | 1/2 | 12 | 0.82 | 20.8 | 4000 | 280 | 16000 | 1120 | 2.8 | 71 | 67 |
| 10M4K | -MTF | -XTF | 10 | 5/8 | 16 | 0.99 | 25.2 | 4000 | 280 | 16000 | 1120 | 3.0 | 76 | 67 |
| 12M4K | -MTF | -XTF | 12 | 3/4 | 19 | 1.17 | 29.7 | 4000 | 280 | 16000 | 1120 | 3.8 | 97 | 67 |
| 16M4K | -MTF | -XTF | 16 | 1 | 25 | 1.52 | 38.6 | 4000 | 280 | 16000 | 1120 | 4.5 | 114 | 50 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | |
|-----------|------------------------|----------------|----------------------|----------------|---------|-------------------|-------------------------------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | 1 Piece Series | 2 Piece Series | | 2 Piece Series | | | | | | | | |
| Standard | | | | | | | | | | | | |
| MegaTuff | | | | | | | | | | | | |
| XtraTuff | | | | | | | | | | | | |
| 4M4K | 4G | - | - | S | FN4P-04 | HSG-02 | SGX12 | HTG-14 | TEXS23 | SB22 | 14LG4K | 6SC4 |
| 6M4K | 6G | 6GS | 6GS1F-2 | S | FN4P-06 | HSG-04 | SGX16 | HTG-16 | TEXS27 | SB25 | 16LG4K | 6SC4 |
| 8M4K | 8G | 8GS | 8GS1F-2 | S | FNP-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB25 | 20LG4K | 8SC4 |
| 10M4K | 10G | 10GS | 10GS1F-2 | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG4K | 10SC4 |
| 12M4K | 12G | 12GS | 12GS1F-2 | S | FNS-12 | HSG-09 | SGX32 | HTG-26 | TEXS47 | SB41 | 26LG4K | 12SC4 |
| 16M4K | - | 16GS | 16GS1F-2 16GS1F-4 | - | - | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 |



Section 1

Hydraulic Hose

Global M3K Mega3000™ Hose - SAE 100R17

3,250psi
225 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G and ISO 11237 R17

Recommended For: High pressure hydraulic applications.

Standards: 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).

See *Hose Stock Characteristics*.

Reinforcement: Braided high-tensile steel wire. 1 braid (-4, -5, -6, -8) or 2 braid (-10, -12, -16).

Cover: Black, oil, abrasion and weather resistant synthetic rubber (Nitrile & PVC). Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® or XtraTuff™ cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | | ⊖ | | | ∅ | | ⌚ | | ⌚ | | ⌚ | | Length Reel |
|-------------|----------|----------|------|-----|----|------|------|------|-----|-------|-----|-----|-----|-------------|
| Standard | MegaTuff | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4M3K | -MTF | -XTF | 4 | 1/4 | 6 | 0.48 | 12.2 | 3250 | 225 | 13000 | 900 | 1.5 | 38 | 134 |
| 6M3K | -MTF | -XTF | 6 | 3/8 | 10 | 0.63 | 16.0 | 3250 | 225 | 13000 | 900 | 2.0 | 51 | 100 |
| 8M3K | -MTF | -XTF | 8 | 1/2 | 12 | 0.80 | 20.3 | 3250 | 225 | 13000 | 900 | 2.8 | 71 | 67 |
| 10M3K | -MTF | -XTF | 10 | 5/8 | 16 | 0.99 | 25.2 | 3250 | 225 | 13000 | 900 | 3.0 | 76 | 67 |
| 12M3K | -MTF | -XTF | 12 | 3/4 | 19 | 1.15 | 29.2 | 3250 | 225 | 13000 | 900 | 3.8 | 97 | 67 |
| 16M3K | -MTF | -XTF | 16 | 1 | 25 | 1.48 | 37.6 | 3250 | 225 | 13000 | 900 | 4.5 | 114 | 50 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|---------------------------------|----------|----------------|---------------------------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | Gates | | | Child | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | 1 Piece Series | 2 Piece Series Coupling Ferrule | | 1 Piece Series | 2 Piece Series Coupling Ferrule | | | | | | | | | |
| MegaTuff | 4G | - | - | E | S | FN3P-04 | HSG-01 | SGX12 | HTG-13 | TEXS20 | SB22 | 14LG3K | 6SC4 | |
| XtraTuff | 6G | 6GS | 6GS1F-2 | E | S | FN3P-06 | HSG-02 | SGX16 | HTG-16 | TEXS25 | SB25 | 16LG3K | 6SC4 | |
| | 8G | 8GS | 8GS1F-2 | E | S | FN3P-08 | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB25 | 20LG3K | 8SC4 | |
| | 10G | 10GS | 10GS1F-2 | - | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG3K | 10SC4 | |
| | 12G | 12GS | 12GS1F-2 | E | S | FNP-12 | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 | |
| | 16G | 16GS | 16GS1F-2 | - | S | FNS-16 | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG3K | 16SC4 | |

Section 1 Hydraulic Hose



M2T MegaFlex® 2 Wire Braid Hose - SAE 100R16

Meets Flame Resistance Acceptance Designation MSHA 2G and ISO 11237 2SC R16

Recommended For: High pressure hydraulic oil lines.

Standards: 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 a significantly tighter bend radius.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil, abrasion and weather resistant synthetic rubber (Nitrile & PVC).

Colour-coded layline. Also available with unique abrasion-resistant MegaTuff® or XtraTuff™ cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | | ⊖ | | | ⊕ | | ⊖ | | ⊕ | | ⊖ | | Length Reel |
|-------------|----------|----------|------|-----|----|------|------|------|-----|-------|------|-----|-----|-------------|
| Standard | MegaTuff | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4M2T | -MTF | -XTF | 4 | 1/4 | 6 | 0.56 | 14.2 | 6000 | 414 | 24000 | 1655 | 1.5 | 38 | 167 |
| 6M2T | -MTF | -XTF | 6 | 3/8 | 10 | 0.70 | 17.8 | 5000 | 345 | 20000 | 1380 | 2.0 | 51 | 117 |
| 8M2T | -MTF | -XTF | 8 | 1/2 | 12 | 0.82 | 20.8 | 4300 | 297 | 17200 | 1186 | 2.8 | 71 | 100 |
| 10M2T | -MTF | -XTF | 10 | 5/8 | 16 | 0.95 | 24.1 | 3800 | 262 | 15200 | 1048 | 3.0 | 76 | 67 |
| 12M2T | -MTF | -XTF | 12 | 3/4 | 19 | 1.11 | 28.2 | 3500 | 241 | 14000 | 966 | 3.8 | 97 | 67 |
| 16M2T | -MTF | -XTF | 16 | 1 | 25 | 1.39 | 35.3 | 2500 | 172 | 10000 | 690 | 4.5 | 114 | 50 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|-------------------------|----------|----------------|-------------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | Gates | | | Child | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| | 1 Piece Series | 2 Piece Series Coupling | Ferrule | 1 Piece Series | 2 Piece Series Coupling | Ferrule | | | | | | | | |
| 4M2T | 4G | - | - | E | S | FNP-03 | HSG-02 | SGX16 | HTG-14 | TEXS23 | SB22 | - | - | |
| 6M2T | 6G | 6GS | 6GS1F-2 | E | S | FNM2P-06 | HSG-04 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG5K | 6SC4 | |
| 8M2T | 8G | 8GS | 8GS1F-2 | E | S | FNM2P-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB29 | 20LG5K | 8SC4 | |
| 10M2T | 10G | 10GS | 10GS1F-2 | - | S | FNM2P-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG4K | 10SC4 | |
| 12M2T | 12G | 12GS | 12GS1F-2 | E | S | FNM2P-12 | HSG-09 | SGX32 | HTG-26 | TEXS44 | SB41 | 26LG4K | 12SC4 | |
| 16M2T | 16G | 16GS | 16GS1F-2 | - | - | - | HSG-11 | SGX40 | HTG-30 | TEXS53 | SB48 | 32LG3K | 16SC4 | |



Section 1

Hydraulic Hose

CM2TDL MegaFlex® Connected Dual Line 2-Wire Braid Hose SAE 100R16 - XtraTuff™ Cover

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: High abrasive high pressure hydraulic oil lines joined together for easier plumbing and routing.

Standards: Meets SAE 100R16 requirements and exceeds performance standards of EN 857 2SC and ISO/DIS 1436. CM2T hose has smaller exterior dimensions and a significantly tighter bend radius.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil, abrasion and weather resistant synthetic rubber (XtraTuff® Nitrile). Colour-coded layline.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | R _a | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|------|----------------|-----|-------------|
| | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 6CM2TDL-XTF | 6 | 3/8 | 10 | 0.70 | 17.8 | 4800 | 345 | 19200 | 1324 | 3.5 | 89 | 65 |
| 8CM2TDL-XTF | 8 | 1/2 | 12 | 0.82 | 20.8 | 4000 | 297 | 16000 | 1103 | 5.0 | 127 | 55 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | |
|----------------|------------------------|-------------------------|---------|-------------------------------------|------------|-----------|--------------------|------------|-------------------|
| | XtraTuff | Gates | | Spiral Guard | Heat Guard | TexSleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 1 Piece Series | | 2 Piece Series Coupling | Ferrule | | | | | | |
| 6CM2TDL-XTF | G | GS | 6GS1F-2 | SGX20 | HTG-30 | TEXS55 | SB48 | 26LG5K | - |
| 8CM2TDL-XTF | G | GS | 8GS1F-2 | SGX20 | HTG-36 | TEXS66 | SB54 | 32LG4K | - |

Section 1 Hydraulic Hose



MXG5K-XTP Xpiral™ Woven Spiral Construction



5,075psi
350 Bar

Spiral Wire Alternative Hose: EFG5K. Only for sizes -6 to -16

1,000,000 Cycle Impulse Life

Standard with XtraTuff™ Plus Cover

MSHA and FRAS

Patented Xpiral™ woven spiral technology means MegaSys MXG5K exceeds the performance of wire spiral construction but with lower weight and flexibility.



Standards: Exceeds performance of ISO 18752 350DC, SAE 100R13, EN856 R13 and OSP 3862 R13. Sizes -10, -12 and -16 also rated for EN856 4SP

Tube: Black, oil resistant, synthetic rubber.

See *Hose Stock Characteristics*.

Reinforcement: Xpiral™ woven spiral construction with 4 layers of high-tensile steel wire.

Cover: Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Additional Temperature Limits for Gates Hydraulic Hose*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | ⊙ | | ⊙ | | Length Reel m | |
|-------------|----------|------|-----|----|------|------|------|-----|-------|------|-----|------------------|-----|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | | mm |
| 6MXG5K-XTP | 6 | | 3/8 | 10 | 0.71 | 18.0 | 5075 | 350 | 20300 | 1400 | 2.5 | 65.0 | 100 |
| 8MXG5K-XTP | 8 | | 1/2 | 12 | 0.85 | 21.6 | 5075 | 350 | 20300 | 1400 | 3.5 | 90.0 | 67 |
| 10MXG5K-XTP | 10 | | 5/8 | 16 | 1.03 | 26.1 | 5075 | 350 | 20300 | 1400 | 3.9 | 100.0 | 67 |
| 12MXG5K-XTP | 12 | | 3/4 | 19 | 1.16 | 29.6 | 5075 | 350 | 20300 | 1400 | 4.7 | 120.0 | 67 |
| 16MXG5K-XTP | 16 | | 1 | 25 | 1.52 | 38.7 | 5075 | 350 | 20300 | 1400 | 5.9 | 150.0 | 67 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | Associated Protective Product Guide | | | | | | |
|-------------|-------------------------|------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | 2 Piece Series Coupling | Ferrule | | | | | | | |
| 6MXG5K-XTP | 6GS | 6GS1F-2 | HSG-04 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG5K | 6SC4 |
| 8MXG5K-XTP | 8GS | 8GS1F-2 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB25 | 16LG5K | 6SC4 |
| 10MXG5K-XTP | 10GS | 10GSID1F-4 | HSG-08 | SGX25 | HTG-22 | TEXS40 | SB29 | 20LG5K | 8SC4 |
| 12MXG5K-XTP | 12GS | 12GS1F-2 | HSG-09 | SGX32 | HTG-26 | TEXS44 | SB34 | 22LG5K | 10SC4 |
| 16MXG5K-XTP | - | - | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB41 | - | - |



Section 1

Hydraulic Hose

MXG4K-XTP Xpiral™ Woven Spiral Technology

4,060psi
280 Bar

Spiral Wire Alternative Hose: EFG4K. Only for sizes -6 to -16

1,000,000 Cycle Impulse Life

Standard with XtraTuff™ Plus Cover

MSHA and FRAS



Recommended For: High pressure hydraulic applications requiring a premium compact, lightweight hose with spiral performance and flexibility.

Standards: Exceeds all criteria of ISO 18752 280DC & SAE 100R19 and performance criteria of SAE 100R12, EN 856 R12 and ISO 3862 R12. (Size -16 also exceeds EN 856 4SP performance requirements)

Tube: Black, oil resistant, synthetic rubber.

See *Hose Stock Characteristics*.

Reinforcement: Patented Xpiral™ Woven Spiral Technology.

Cover: Black, XtraTuff™ Plus abrasion resistant, ozone resistant, synthetic rubber; smooth cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|------|-----|-------|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 6MXG4K-XTP | 6 | 3/8 | 10 | 0.70 | 17.7 | 4060 | 280 | 16240 | 1120 | 2.5 | 63.5 | 100 |
| 8MXG4K-XTP | 8 | 1/2 | 12 | 0.82 | 20.7 | 4060 | 280 | 16240 | 1120 | 3.5 | 88.9 | 67 |
| 10MXG4K-XTP | 10 | 5/8 | 16 | 0.99 | 25.2 | 4060 | 280 | 16240 | 1120 | 3.9 | 99.0 | 67 |
| 12MXG4K-XTP | 12 | 3/4 | 19 | 1.14 | 28.9 | 4060 | 280 | 16240 | 1120 | 4.7 | 119.4 | 67 |
| 16MXG4K-XTP | 16 | 1 | 25 | 1.50 | 38.0 | 4060 | 280 | 16240 | 1120 | 5.9 | 149.9 | 50 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | |
|-------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | 2 Piece Series Coupling | 2 Piece Series Ferrule | 2 Piece Series Coupling | 2 Piece Series Ferrule | | | | | | | |
| 6MXG4K-XTP | 6GS | 6GS1F-2 | S | FNP-06 | HSG-04 | SGX16 | HTG-16 | TEXS27 | SB25 | 16LG4K | 6SC4 |
| 8MXG4K-XTP | 8GS | 8GS1F-2 | S | FNP-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB25 | 20LG4K | 8SC4 |
| 10MXG4K-XTP | 10GS | 10GS1F-2 | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG4K | 10SC4 |
| 12MXG4K-XTP | 12GS | 12GS1F-2 | S | FNP-12 | HSG-09 | SGX32 | HTG-26 | TEXS44 | SB34 | 26LG4K | 12SC4 |
| 16MXG4K-XTP | 16GS | 16GS1F-4 | S | FNS-16 | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 |

MXT Braided Wire Construction

Supersedes G2 hose from 1/4" to 1"

Industry Specified Performance Hose

**Meets Flame Resistance Acceptance Designation MSHA 2G
MSHA, FRAS & SAE J1942 USCG**

Recommended For: High-pressure hydraulic oil lines.

Standards: Meets SAE 100R16 dimensions and performance.

Meets SAE 100R17 (-6, -8, -10 & -12) dimensions and performance.

Meets SAE 100R2 performance. Meets SAE 100R19 (-6 & -8) performance.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Patent pending wire braid construction.

Cover: Black, oil, abrasion and weather resistant synthetic rubber (Nitrile); XtraTuff™ Plus cover (optional), smooth cover.

Colour-coded layline

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|-----------|------|-----|----|------|------|------|-----|-------|------|-----|-----|-------------|
| Standard | XtraTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4MXT | 4MXT-XTP | 4 | 1/4 | 6 | 0.57 | 14.0 | 6000 | 414 | 24000 | 1655 | 1.5 | 38 | 167 |
| 6MXT | 6MXT-XTP | 6 | 3/8 | 10 | 0.68 | 17.1 | 4800 | 331 | 19200 | 1324 | 2.5 | 64 | 121 |
| 8MXT | 8MXT-XTP | 8 | 1/2 | 12 | 0.80 | 20.2 | 4000 | 276 | 16000 | 1103 | 2.8 | 70 | 100 |
| 10MXT | 10MXT-XTP | 10 | 5/8 | 16 | 0.95 | 24.0 | 3625 | 250 | 14500 | 1000 | 3.0 | 76 | 67 |
| 12MXT | 12MXT-XTP | 12 | 3/4 | 19 | 1.08 | 27.4 | 3125 | 215 | 12500 | 862 | 4.8 | 121 | 67 |
| 16MXT | 16MXT-XTP | 16 | 1 | 25 | 1.38 | 35.1 | 2400 | 165 | 9600 | 662 | 6.0 | 152 | 50 |

Couplings and Additional Products

| Hose Type | | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | | |
|-----------|-----------|------------------------|----------------|----------|----------------|----------------|---------|-------------------------------------|--------------|------------|-----------|--------------------|------------|-------------------|
| Standard | XtraTuff | Gates | | | Child | | | Wire Spring Guard | Spiral Guard | Heat Guard | TexSleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | | 1 Piece Series | 2 Piece Series | | 1 Piece Series | 2 Piece Series | | | | | | | | |
| | | | Coupling | Ferrule | | Coupling | Ferrule | | | | | | | |
| 4MXT | 4MXT-XTP | 4G | - | - | E | S | FNP-04 | HSG-02 | SGX16 | HTG-14 | TEXS23 | SB22 | - | - |
| 6MXT | 6MXT-XTP | 6G | 6GS | 6GS1F-2 | E | S | FNP-06 | HSG-03 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG5K | 6SC4 |
| 8MXT | 8MXT-XTP | 8G | 8GS | 8GS1F-2 | E | S | FNP-08 | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB29 | 20LG4K | 8SC4 |
| 10MXT | 10MXT-XTP | 10G | 10GS | 10GS1F-2 | - | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS36 | SB34 | 22LG4K | 10SC4 |
| 12MXT | 12MXT-XTP | 12G | 12GS | 12GS1F-2 | E | S | FNP-12 | HSG-09 | SGX25 | HTG-24 | TEXS44 | SB41 | 26LG4K | 12SC4 |
| 16MXT | 16MXT-XTP | 16G | 16GS | 16GS1F-2 | - | S | FNP-16 | HSG-11 | SGX32 | HTG-30 | TEXS53 | SB48 | 32LG3K | 16SC4 |



Section 1

Hydraulic Hose

G2 2-Wire Braid Hose - SAE 100R2 Type AT

1/4" to 1" is being superseded by MXT

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: High pressure hydraulic oil lines.

Standards: Meets or exceeds the requirements of SAE 100R2, ISO 1436 2SN R2 and EN 853 2SN.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil and abrasion resistant synthetic rubber (Nitrile & PVC).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|------|-------|----|------|------|------|-----|------|-----|------|-----|-------------|
| | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | |
| 20G2 | 20 | 1-1/4 | 31 | 1.86 | 47.2 | 1825 | 125 | 7300 | 500 | 16.5 | 419 | 36 |
| 24G2 | 24 | 1-1/2 | 38 | 2.11 | 53.6 | 1300 | 90 | 5000 | 345 | 20.0 | 508 | 36 |
| 32G2 | 32 | 2 | 51 | 2.62 | 66.5 | 1175 | 81 | 4700 | 310 | 25.0 | 635 | 36 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|----------------|-----------|----------------|---------|-------------------------------------|--------------|------------|------------|--------------------|--|--|
| | Standard | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | | |
| 1 Piece Series | | 2 Piece Series | | 2 Piece Series | | | | | | | | |
| | | Coupling | Ferrule | Coupling | Ferrule | | | | | | | |
| 20G2 | 20G | 20GS | 20GS1F-2 | S | FNP-20 | HSG-14 | SGX50 | HTG-36 | TEXS73 | SB60 | | |
| 24G2 | - | 24GSP | 24GSP1F-2 | S | FNP-24 | HSG-15 | SGX63 | HTG-40 | TEXS85 | SB60 | | |
| 32G2 | - | 32GSP | 32GSP1F-2 | S | FNP-32 | HSG-15A | SGX75 | HTG-64 | TEXS112 | SB73 | | |

Section 1 Hydraulic Hose



G2XH 2-Wire Braid Xtreme® Heat Hose SAE 100R2

High Temp
149°C

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Extremely high temperature high pressure hydraulic applications.

Standards: Exceeds pressure and temperature requirements of SAE 100 R2, ISO1436 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).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Blue, oil and abrasion resistant thin synthetic rubber (CSM).

See *Hose Stock Characteristics*.

Temperature Range: Petroleum-base fluids: -40°F to +300°F (-40°C to +149°C).

Phosphate ester fluids as recommended by the fluid manufacturer but within range of -40°F to +212°F (-40°C to +100°C). For water emulsions: max +225°F (+107°C) in pressure lines, max +180°F (+82°C) in return lines.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|-------|------|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4G2XH | 4 | 1/4 | 6 | 0.59 | 15.0 | 6000 | 413 | 24000 | 1655 | 4.0 | 102 | 167 |
| 6G2XH | 6 | 3/8 | 10 | 0.74 | 18.8 | 5000 | 345 | 20000 | 1379 | 5.0 | 127 | 122 |
| 8G2XH | 8 | 1/2 | 12 | 0.86 | 21.8 | 4250 | 293 | 17000 | 1172 | 7.0 | 178 | 100 |
| 10G2XH | 10 | 5/8 | 16 | 0.99 | 25.1 | 3625 | 250 | 14500 | 1000 | 8.0 | 203 | 67 |
| 12G2XH | 12 | 3/4 | 19 | 1.15 | 29.2 | 3100 | 215 | 12400 | 855 | 9.5 | 241 | 67 |
| 16G2XH | 16 | 1 | 25 | 1.48 | 37.6 | 2500 | 172 | 10000 | 689 | 12.0 | 305 | 50 |
| 20G2XH | 20 | 1-1/4 | 31 | 1.86 | 47.2 | 2250 | 155 | 9000 | 620 | 16.5 | 419 | 39 |
| 24G2XH | 24 | 1-1/2 | 38 | 2.15 | 54.6 | 1800 | 124 | 7200 | 496 | 20.0 | 508 | 39 |
| 32G2XH | 32 | 2 | 51 | 2.65 | 67.3 | 1500 | 103 | 6000 | 413 | 25.0 | 635 | 39 |

Couplings and Additional Product

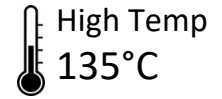
| Hose Type | Couplings and Ferrules | | | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|----------------|-------------------------|------------------------|-------------------------|-------------------------------------|--------------|------------|-----------|--------------------|------------|-------------------|
| | Standard | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | TexSleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | | 1 Piece Series | 2 Piece Series Coupling | 2 Piece Series Ferrule | 2 Piece Series Coupling | | | | | | | |
| 4G2XH | 4G | - | - | S | FNP-04 | HSG-02 | SGX16 | HTG-14 | TEXS23 | SB22 | - | - |
| 6G2XH | 6G | 6GS | 6GS1F-2 | S | FNP-06 | HSG-04 | SGX20 | HTG-16 | TEXS31 | SB25 | 16LG5K | 6SC4 |
| 8G2XH | 8G | 8GS | 8GS1F-2 | S | FNP-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB29 | 20LG4K | 8SC4 |
| 10G2XH | 10G | 10GS | 10GS1F-2 | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG4K | 10SC4 |
| 12G2XH | 12G | 12GS | 12GS1F-2 | S | FNP-12 | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG4K | 12SC4 |
| 16G2XH | 16G | 16GS | 16GS1F-2 | S | FNP-16 | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 |
| 20G2XH | 20G | 20GS | 20GS1F-2 | S | FNP-20 | HSG-14 | SGX50 | HTG-36 | TEXS73 | SB60 | - | - |
| 24G2XH | - | 24GSP | 24GSP1F-2 | - | - | HSG-15 | SGX63 | HTG-40 | TEXS85 | SB67 | - | - |
| 32G2XH | - | 32GSP | 32GSP1F-2 | - | - | HSG-15A | SGX75 | HTG-64 | TEXS112 | SB73 | - | - |



Section 1

Hydraulic Hose

G2H High-Temp 2-Wire Braid Hose Type AT



Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: High temperature high pressure hydraulic oil lines.

Standards: Meets or exceeds the requirements of SAE 100R2, ISO1436 2SN R2 and EN 853 2SN.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil resistant synthetic rubber (CSM). Also available with unique abrasion resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +275°F (-40°C to +135°C) constant and +300°F (+149°C) intermittent (up to 10% of operating time).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | | ⊖ | | | ⊘ | | ⊙ | | ⊙ ^{1/2} | | ⊙ ^{1/2} | | Length Reel |
|-------------|----------|------|-------|----|------|------|------|-----|------------------|-----|------------------|-----|-------------|
| Standard | MegaTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 20G2H | -MTF | 20 | 1-1/4 | 31 | 1.86 | 47.2 | 1825 | 125 | 7300 | 500 | 16.5 | 419 | 36 |
| 24G2H | -MTF | 24 | 1-1/2 | 38 | 2.11 | 53.6 | 1300 | 90 | 5200 | 359 | 20.0 | 508 | 36 |
| 32G2H | -MTF | 32 | 2 | 51 | 2.62 | 66.6 | 1175 | 81 | 4700 | 324 | 25.0 | 635 | 36 |

Couplings and Additional Product

| Hose Type | Couplings and Ferrules | | | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|----------------|-----------|----------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Standard MegaTuff | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 1 Piece Series | | 2 Piece Series | | 2 Piece Series | | | | | | | | |
| | | Coupling | Ferrule | Coupling | Ferrule | | | | | | | |
| 20G2H | 20G | 20GS | 20GS1F-2 | S | FNP-20 | HSG-14 | SGX50 | HTG-36 | TEXS73 | SB60 | - | - |
| 24G2H | - | 24GSP | 24GSP1F-2 | S | FNP-24 | HSG-15 | SGX63 | HTG-40 | TEXS85 | SB67 | - | - |
| 32G2H | - | 32GSP | 32GSP1F-2 | S | FNP-32 | HSG-15A | SGX75 | HTG-64 | TEXS112 | SB73 | - | - |

CR2 2-Wire Braid Hose

SAE 100R2

Meets Flame Resistance Acceptance Designation MSHA 2G

Alternative to G2 hose from 1/4" to 1"

Recommended For: Non-severe, high pressure hydraulic applications with low flexure requirements.

Standards: SAE 100R2 or EN853 2SN specification for dimensions and performance.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, abrasion resistant synthetic rubber (Modified SBR).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | 💡 | | 💡 | | 👂 | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|------|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4CR2 | 4 | 1/4 | 6 | 0.57 | 14.5 | 5800 | 400 | 23200 | 1600 | 4.0 | 102 | 167 |
| 6CR2 | 6 | 3/8 | 10 | 0.73 | 18.3 | 4800 | 330 | 19200 | 1320 | 5.0 | 127 | 122 |
| 8CR2 | 8 | 1/2 | 12 | 0.85 | 21.6 | 4000 | 275 | 16000 | 1100 | 7.0 | 178 | 100 |
| 10CR2 | 10 | 5/8 | 16 | 0.98 | 24.9 | 3625 | 250 | 14500 | 1000 | 8.0 | 203 | 67 |
| 12CR2 | 12 | 3/4 | 19 | 1.14 | 29.0 | 3125 | 215 | 12500 | 862 | 9.5 | 241 | 67 |
| 16CR2 | 16 | 1 | 25 | 1.46 | 37.1 | 2400 | 165 | 9600 | 660 | 11.8 | 300 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | |
|-------------------|------------------------|----------------|---------------------------------|--------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | Child | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard MegaTuff | 1 Piece Series | 1 Piece Series | 2 Piece Series Coupling Ferrule | | | | | | | | |
| 4CR2 | 4G | E | S | FNP-04 | HSG-02 | SGX16 | HTG-13 | TEXS23 | SB22 | - | - |
| 6CR2 | 6G | E | S | FNP-06 | HSG-04 | SGX20 | HTG-16 | TEXS31 | SB25 | 16LG5K | 6SC4 |
| 8CR2 | 8G | E | S | FNP-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB29 | 20LG4K | 8SC4 |
| 10CR2 | 10G | - | S | FNP-10 | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG4K | 10SC4 |
| 12CR2 | 12G | E | S | FNP-12 | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG4K | 12SC4 |
| 16CR2 | 16G | - | S | FNP-16 | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 |



Section 1

Hydraulic Hose

EF2 2-Wire Braid AG Hose

SAE 100R2 AT (Non-MSHA Rated Hose)

Alternative to G2 hose from 1/4" to 1"

Recommended For: High-pressure hydraulic lines

Standards: SAE 100R2 Type AT and EN 853 2SN specifications.

Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

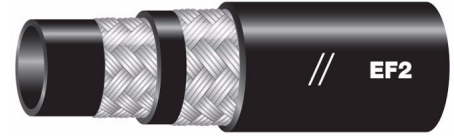
Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, abrasion-resistant synthetic rubber (Modified CR).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions: Max 200°F (93°C) pressure lines, Max 180°F (82°C) return lines



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊖ | | ⊖ | | ⊖ | | Length Reel m |
|-------------|----------|------|----|------|------|------|-----|-------|------|------|-----|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4EF2 | 4 | 1/4 | 6 | 0.57 | 14.6 | 5800 | 400 | 23200 | 1600 | 4.0 | 102 | 167 |
| 6EF2 | 6 | 3/8 | 10 | 0.73 | 18.6 | 4800 | 330 | 19200 | 1320 | 5.0 | 127 | 122 |
| 8EF2 | 8 | 1/2 | 12 | 0.85 | 21.5 | 4000 | 275 | 16000 | 1100 | 7.0 | 178 | 100 |
| 12EF2 | 12 | 3/4 | 19 | 1.14 | 29.0 | 3125 | 215 | 12500 | 862 | 9.5 | 241 | 67 |
| 16EF2 | 16 | 1 | 25 | 1.46 | 37.2 | 2400 | 165 | 9600 | 660 | 11.8 | 300 | 50 |

Couplings and Additional Products


| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|----------------|----------|---------|----------|-----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Standard | Gates | | Child | | Field Fit | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 1 Piece Series | 1 Piece Series | 2 Piece Series | Coupling | Ferrule | Coupling | | | | | | | | |
| 4EF2 | 4G | E | S | FNP-04 | R | BN2-04 | HSG-02 | SGX16 | HTG-13 | TEXS23 | SB22 | - | - |
| 6EF2 | 6G | E | S | FNP-06 | R | BN2-06 | HSG-04 | SGX20 | HTG-16 | TEXS31 | SB25 | 16LG5K | 6SC4 |
| 8EF2 | 8G | E | S | FNP-08 | R* | BN2-08 | HSG-05 | SGX20 | HTG-18 | TEXS33 | SB29 | 20LG4K | 8SC4 |
| 12EF2 | 12G | E | S | FNP-12 | R | BN2-12 | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG4K | 12SC4 |
| 16EF2 | 16G | - | S | FNP-16 | R | BN2-16 | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG4K | 16SC4 |

R* - Maximum working pressure 3500psi

Section 1

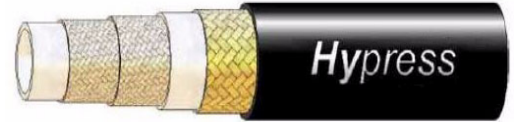
Hydraulic Hose

STFS00HP - Hypress Hy-Ultra American Jacking Specification IJ100 (1/4")

 10,150psi
700 Bar

Features: Combined aramid and steel braid construction for compact design. Lightweight and flexible. Small bend radius for use on hose reels. Anti-abrasion cover.

Standards: Meets Material Handling Institute specification IJ 100 (1/4") for hydraulic hose and assemblies used with jacking systems.



Tube: Polyester elastomer.

Reinforcement: One or two braids of aramid fibre plus one steel braid.






Cover: Polyurethane, black, pinpricked, white ink-jet branding.

See *Hose Stock Characteristics*.

Recommended Fluids: Hydraulic fluid, petroleum-based; Glycol, water-based.

Temperature Range: -40°F to +212°F (-40°C to +100°C) continuous, +158°F (+70°C) for water-based fluids

Hose Specifications

| Part Number |  | | |  | |  | |  | |  | |
|-------------|---|-----|-----|---|------|---|-----|---|------|---|----|
| | Dash | in | mm | in | mm | psi | bar | psi | bar | in | mm |
| STFS00HP-04 | 4 | 1/4 | 6.6 | 1/2 | 12.7 | 10150 | 700 | 40600 | 2800 | 1.4 | 35 |

Couplings and Additional Products NB: Individual sleeving is not sufficient to provide burst protection at these pressures

| Hose Type | Couplings and Ferrules | | Associated Protective Product Guide | | | | | | |
|-------------|------------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | IMM | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Coupling | Ferrule | | | | | | | |
| STFS00HP-04 | S0370T04-06 | S00HP-04 | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG5K | 6SC4 |

Also available in twin version. Use order code ST2S00HP (MOQ may apply).



Also available in non-conductive version (orange). Use order code STFSNCHP (MOQ may apply).






Section 1

Hydraulic Hose

J2AT 2-Wire Braid Jack Hose

10,000psi Static Pressure Only

 10,000psi
690 Bar

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Hydraulic jack applications.

Standards: Meets Material Handling Institute specification IJ 100 for hydraulic hose and assemblies used with jacking systems. 10,000 static pressure only.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Black, oil and abrasion resistant synthetic rubber (Nitrile & PVC).






Also available with unique abrasion resistant MegaTuff® cover.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +120°F (-40°C to +49°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | |  | | |  | |  | |  | |  | | Length Reel |
|-------------|----------|--|-----|----|--|------|--|-----|--|------|--|----|-------------|
| Standard | MegaTuff | Dash | in | DN | in | mm | psi | bar | psi | bar | in | mm | m |
| 4J2AT | -MTF | 4 | 1/4 | 6 | 0.59 | 15.0 | 10000 | 689 | 20000 | 1862 | 2.0 | 51 | 106 |
| 6J2AT | -MTF | 6 | 3/8 | 10 | 0.74 | 18.8 | 10000 | 689 | 20000 | 1862 | 2.5 | 64 | 100 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|----------------------|----------------------|--------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates 1 Piece Series | Child 1 Piece Series | Child 2 Piece Series | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | | Coupling | Ferrule | | | | | | | | |
| 4J2AT | 4G | E | S | FNP-04 | HSG-02 | SGX16 | HTG-13 | TEXS23 | SB22 | - | - |
| 6J2AT | 6G | E | S | FNP-06 | HSG-04 | SGX20 | HTG-16 | TEXS31 | SB25 | - | - |

G1 1-Wire Braid Hose - SAE 100R1 Type AT

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Medium pressure hydraulic oil lines.

Standards: Meets or exceeds the requirements of SAE 100R1, ISO1436 1SN R1 and EN 853 1SN.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Black, oil and abrasion resistant synthetic rubber (Nitrile & PVC).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|-------|------|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 3G1 | 3 | 3/16 | 5 | 0.47 | 11.9 | 3625 | 350 | 14500 | 1000 | 3.0 | 76 | 134 |
| 4G1 | 4 | 1/4 | 6 | 0.53 | 13.5 | 3275 | 226 | 13100 | 903 | 4.0 | 102 | 134 |
| 6G1 | 6 | 3/8 | 10 | 0.68 | 17.3 | 2600 | 179 | 10400 | 717 | 5.0 | 127 | 117 |
| 8G1 | 8 | 1/2 | 12 | 0.80 | 20.3 | 2325 | 160 | 9300 | 641 | 7.0 | 178 | 100 |
| 10G1 | 10 | 5/8 | 16 | 0.93 | 23.6 | 1900 | 131 | 7600 | 524 | 8.0 | 203 | 67 |
| 12G1 | 12 | 3/4 | 19 | 1.09 | 27.7 | 1525 | 105 | 6100 | 421 | 9.0 | 229 | 67 |
| 16G1 | 16 | 1 | 25 | 1.40 | 35.6 | 1300 | 90 | 5200 | 359 | 12.0 | 305 | 50 |
| 20G1 | 20 | 1-1/4 | 31 | 1.71 | 43.4 | 925 | 64 | 3700 | 255 | 16.0 | 406 | 36 |
| 24G1 | 24 | 1-1/2 | 38 | 1.96 | 49.8 | 725 | 50 | 2900 | 200 | 20.0 | 508 | 36 |
| 32G1 | 32 | 2 | 51 | 2.51 | 63.8 | 600 | 41 | 2400 | 166 | 25.0 | 635 | 36 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|----------------|-------------------------|------------------------|----------------|-------------------------|------------------------|--------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | | | Child | | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | Standard | 1 Piece Series | 2 Piece Series Coupling | 2 Piece Series Ferrule | 1 Piece Series | 2 Piece Series Coupling | 2 Piece Series Ferrule | Field Fit Coupling | | | | | | | |
| 3G1 | - | - | - | - | P | FNP-03 | - | - | HSG-01 | SGX12 | HTG-12 | TEXS20 | SB19 | 14LG4K | 6SC4 |
| 4G1 | 4G | - | - | E | S | FNP-04 | R | BN1-04 | HSG-02 | SGX12 | HTG-13 | TEXS23 | SB22 | 14LG4K | 6SC4 |
| 6G1 | 6G | 6GS | 6GS1F-2 | E | S | FNP-06 | R | BN1-06 | HSG-04 | SGX20 | HTG-16 | TEXS27 | SB22 | 16LG3K | 6SC4 |
| 8G1 | 8G | 8GS | 8GS1F-2 | E | S | FNP-08 | R | BN1-08 | HSG-05 | SGX20 | HTG-18 | TEXS31 | SB25 | 20LG3K | 8SC4 |
| 10G1 | 10G | 10GS | 10GS1F-2 | - | S | FNP-10 | - | - | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB29 | 22LG3K | 10SC4 |
| 12G1 | 12G | 12GS | 12GS1F-2 | E | S | FNP-12 | R | BN1-12 | HSG-09 | SGX25 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 |
| 16G1 | 16G | 16GS | 16GS1F-2 | - | S | FNP-16 | R | BN1-16 | HSG-11 | SGX32 | HTG-30 | TEXS55 | SB48 | 32LG3K | 16SC4 |
| 20G1 | 20G | 20GS | 20GS1F-2 | - | S | FNP-20 | - | - | HSG-13 | SGX40 | HTG-36 | TEXS66 | SB60 | - | - |
| 24G1 | - | 24GSP | 24GSP1F-2 | - | S | FNP-24 | - | - | HSG-14 | SGX50 | HTG-40 | TEXS73 | SB60 | - | - |
| 32G1 | - | 32GSP | 32GSP1F-2 | - | S | FNP-32 | - | - | HSG-15A | SGX63 | HTG-64 | TEXS93 | SB73 | - | - |



Section 1 Hydraulic Hose

G1H 1-Wire Braid Hose - High Temp SAE 100R1 Type AT

High Temp
135°C

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: High temperature medium pressure hydraulic oil lines.

Standards: Meets or exceeds the requirements of SAE 100R1 Type AT 2003 Revision.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Black, oil and abrasion resistant synthetic rubber (CSM).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +275°F (-40°C to +135°C) constant and +300°F (+149°C) intermittent (up to 10% of operating time).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|-------|-----|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4G1H | 4 | 1/4 | 6 | 0.53 | 13.5 | 2750 | 189 | 11000 | 758 | 4.0 | 102 | 134 |
| 6G1H | 6 | 3/8 | 10 | 0.69 | 17.3 | 2250 | 155 | 9000 | 620 | 5.0 | 127 | 117 |
| 8G1H | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 137 | 8000 | 551 | 7.0 | 178 | 100 |
| 10G1H | 10 | 5/8 | 16 | 0.94 | 23.6 | 1500 | 103 | 6000 | 413 | 8.0 | 203 | 67 |
| 12G1H | 12 | 3/4 | 19 | 1.10 | 27.7 | 1250 | 86 | 5000 | 344 | 9.5 | 241 | 67 |
| 16G1H | 16 | 1 | 25 | 1.41 | 35.6 | 1000 | 69 | 4000 | 275 | 12.0 | 305 | 50 |
| 20G1H | 20 | 1-1/4 | 31 | 1.71 | 43.4 | 925 | 64 | 3700 | 255 | 16.0 | 406 | 36 |
| 24G1H | 24 | 1-1/2 | 38 | 1.96 | 49.8 | 725 | 50 | 2900 | 200 | 20.0 | 508 | 36 |
| 32G1H | 32 | 2 | 51 | 2.51 | 63.8 | 600 | 41 | 2400 | 166 | 25.0 | 635 | 36 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|----------------|----------------|---|----------------|----------------|---|-----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | | | Child | | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | Standard | 1 Piece Series | 2 Piece Series | | 1 Piece Series | 2 Piece Series | | Field Fit | | | | | | | |
| 4G1H | 4G | - | - | E | S | FNP-04 | R | BN1-04 | HSG-02 | SGX12 | HTG-13 | TEXS23 | SB22 | 14LG4K | 6SC4 |
| 6G1H | 6G | 6GS | 6GS1F-2 | E | S | FNP-06 | R | BN1-06 | HSG-03 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG3K | 6SC4 |
| 8G1H | 8G | 8GS | 8GS1F-2 | E | S | FNP-08 | R | BN1-08 | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB29 | 20LG3K | 8SC4 |
| 10G1H | 10G | 10GS | 10GS1F-2 | - | S | FNP-10 | - | - | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB34 | 22LG3K | 10SC4 |
| 12G1H | 12G | 12GS | 12GS1F-2 | E | S | FNP-12 | R | BN1-12 | HSG-09 | SGX25 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 |
| 16G1H | 16G | 16GS | 16GS1F-2 | - | S | FNP-16 | R | BN1-16 | HSG-11 | SGX32 | HTG-30 | TEXS53 | SB48 | 32LG3K | 16SC4 |
| 20G1H | 20G | 20GS | 20GS1F-2 | - | S | FNP-20 | - | - | HSG-13 | SGX40 | HTG-36 | TEXS66 | SB54 | - | - |
| 24G1H | - | 24GSP | 24GSP1F-2 | - | S | FNP-24 | - | - | HSG-14 | SGX50 | HTG-40 | TEXS73 | SB60 | - | - |
| 32G1H | - | 32GSP | 32GSP1F-2 | - | S | FNP-32 | - | - | HSG-15A | SGX63 | HTG-64 | TEXS93 | SB73 | - | - |

CR1 1-Wire Braid Hose

SAE 100R1

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Non-severe, medium pressure hydraulic applications with low flexure requirements.

Standards: SAE 100R1 or EN853 1SN specification for dimensions and performance.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Black, abrasion-resistant synthetic rubber (Modified SBR).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel m |
|-------------|----------|------|----|------|------|------|-----|-------|-----|------|-----|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4CR1 | 4 | 1/4 | 6 | 0.52 | 13.2 | 3275 | 226 | 13100 | 903 | 4.0 | 102 | 134 |
| 6CR1 | 6 | 3/8 | 10 | 0.66 | 16.8 | 2600 | 179 | 10400 | 717 | 5.0 | 127 | 117 |
| 8CR1 | 8 | 1/2 | 12 | 0.78 | 19.8 | 2325 | 160 | 9300 | 641 | 7.0 | 178 | 100 |
| 10CR1 | 10 | 5/8 | 16 | 0.91 | 23.1 | 1900 | 131 | 7600 | 524 | 8.0 | 203 | 67 |
| 12CR1 | 12 | 3/4 | 19 | 1.07 | 27.2 | 1525 | 105 | 6100 | 421 | 9.5 | 241 | 67 |
| 16CR1 | 16 | 1 | 25 | 1.38 | 35.1 | 1250 | 86 | 5000 | 345 | 11.8 | 300 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|----------------|-------------------------|---------|-------------------------------------|--------------|------------|-----------|--------------------|------------|-------------------|--|
| | Gates | Child | | | Wire Spring Guard | Spiral Guard | Heat Guard | TexSleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | 1 Piece Series | 1 Piece Series | 2 Piece Series Coupling | Ferrule | | | | | | | | |
| 4CR1 | 4G | E | S | FNP-04 | HSG-02 | SGX12 | HTG-13 | TEXS23 | SB22 | 14LG4K | 6SC4 | |
| 6CR1 | 6G | E | S | FNP-06 | HSG-03 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG3K | 6SC4 | |
| 8CR1 | 8G | E | S | FNP-08 | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB29 | 20LG3K | 8SC4 | |
| 10CR1 | 10G | - | - | - | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB34 | 22LG3K | 10SC4 | |
| 12CR1 | 12G | E | S | FNP-12 | HSG-09 | SGX25 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 | |
| 16CR1 | 16G | - | S | FNP-16 | HSG-11 | SGX32 | HTG-30 | TEXS55 | SB48 | 32LG3K | 16SC4 | |



Section 1

Hydraulic Hose

EF1 1-Wire Braid AG Hose

SAE 100R1 AT (Non-MSHA Rated Hose)

Recommended For: Medium-pressure hydraulic lines
Standards: SAE 100R1 Type AT and EN 853 1SN specifications.

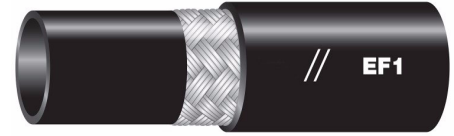
Tube: Black, oil resistant, synthetic rubber (Nitrile).
 See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Black, abrasion-resistant synthetic rubber (Modified CR).
 See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions: Max 200°F (93°C) pressure lines, max 180°F (82°C) return lines



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊕ | | ⊕ | | ⊕ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4EF1 | 4 | 1/4 | 6 | 0.52 | 13.2 | 3275 | 226 | 13100 | 903 | 4.0 | 102 | 134 |
| 6EF1 | 6 | 3/8 | 10 | 0.66 | 16.8 | 2600 | 179 | 10400 | 717 | 5.0 | 127 | 117 |
| 8EF1 | 8 | 1/2 | 12 | 0.78 | 19.8 | 2325 | 160 | 9300 | 641 | 7.0 | 178 | 100 |
| 12EF1 | 12 | 3/4 | 19 | 1.07 | 27.1 | 1525 | 105 | 6100 | 421 | 9.5 | 241 | 67 |
| 16EF1 | 16 | 1 | 25 | 1.38 | 35.0 | 1250 | 86 | 5000 | 345 | 11.8 | 300 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | | |
|----------------|------------------------|-------------------------|------------------------|--------------------|-------------------|-------------------|-------------------------------------|------------|------------|--------------------|------------|-------------------|-------|
| | Standard | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| 1 Piece Series | 1 Piece Series | 2 Piece Series Coupling | 2 Piece Series Ferrule | Field Fit Coupling | Field Fit Ferrule | | | | | | | | |
| 4EF1 | 4G | E | S | FNP-04 | R | BN1-04 | HSG-02 | SGX12 | HTG-13 | TEX23 | SB22 | 14LG4K | 6SC4 |
| 6EF1 | 6G | E | S | FNP-06 | R | BN1-06 | HSG-04 | SGX20 | HTG-16 | TEX27 | SB25 | 16LG3K | 6SC4 |
| 8EF1 | 8G | E | S | FNP-08 | R | BN1-08 | HSG-05 | SGX20 | HTG-18 | TEX31 | SB29 | 20LG3K | 8SC4 |
| 12EF1 | 12G | E | S | FNP-12 | R | BN1-12 | HSG-09 | SGX25 | HTG-24 | TEX44 | SB41 | 26LG3K | 12SC4 |
| 16EF1 | 16G | - | S | FNP-16 | R | BN1-16 | HSG-11 | SGX32 | HTG-30 | TEX53 | SB48 | 32LG3K | 16SC4 |

Section 1 Hydraulic Hose



MegaTech® II - SAE 100R2 Type AT - ACP

High Temp
149°C

Fleet

Recommended For: Multi purpose high pressure, high temperature air compressor lines, petroleum base or phosphate ester hydraulic fluid supply lines.

Standards: Meets or exceeds the requirements of SAE 100R2



Tube: Black, oil resistant, synthetic rubber (CPE).

See *Hose Stock Characteristics*.

Reinforcement: Two braids of high-tensile steel wire.

Cover: Blue, oil and abrasion resistant polyester braid.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +300°F (-40°C to +149°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|---------------|----------|-------|----|------|------|------|-----|------|-----|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 20MegaTech-II | 20 | 1-1/4 | 31 | 1.89 | 48.0 | 2250 | 155 | 9000 | 620 | 15.0 | 381 | 30 |
| 24MegaTech-II | 24 | 1-1/2 | 38 | 2.13 | 54.1 | 1500 | 103 | 6000 | 413 | 20.0 | 508 | 30 |
| 32MegaTech-II | 32 | 2 | 51 | 2.61 | 66.3 | 1300 | 89 | 5200 | 358 | 25.0 | 635 | 30 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | Associated Protective Product Guide | | | | |
|----------------|------------------------|------------------|-----------------|-------------------------|------------------------|-------------------------------------|--------------|------------|------------|--------------------|
| | Standard | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| 1 Piece Series | | 2 Piece Coupling | 2 Piece Ferrule | 2 Piece Series Coupling | 2 Piece Series Ferrule | | | | | |
| 20MegaTech-II | 20G | - | - | - | - | HSG-14 | SGX50 | HTG-36 | TEXS73 | SB60 |
| 24 MegaTech-II | - | 24GSP | 24GSP1F-2 | S | FNP-24 | HSG-15 | SGX63 | HTG-44 | TEXS85 | SB67 |
| 32 MegaTech-II | - | 32GSP | 32GSP1F-2 | S | FNP-32 | HSG-15A | SGX75 | HTG-64 | TEXS112 | SB79 |



Section 1

Hydraulic Hose

MegaTech® 1000 High-Temp Oil-Air Return

High Temp
149°C

Fleet

Recommended For: Air brake hose, pressurised hot oil return lines and rotary oil/air compressor lines. Not recommended for gasoline or diesel fuel applications.

Standards: Meets the requirements of DOT FMVSS 106-74, SAE J1402 for Air Brake hose (-4, -6, -8, -10).



Tube: Black tube specifically compounded for temperature and chemical resistance (CPE).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Oil and mildew resistant, textile braid, impregnated with synthetic rubber.

See *Hose Stock Characteristics*.

Temperature Range: Petroleum-base fluids: -40°F to +300°F (-40°C to +149°C).

Phosphate ester fluids as recommended by the fluid manufacturer but within range of -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊕ | | ⊕ | | ⊕ | | Length Reel |
|----------------|----------|-------|----|------|------|------|-----|------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4MegaTech1000 | 4 | 1/4 | 6 | 0.52 | 13.2 | 1000 | 68 | 4000 | 275 | 2.0 | 51 | 106 |
| 6MegaTech1000 | 6 | 3/8 | 10 | 0.66 | 16.8 | 1000 | 68 | 4000 | 275 | 2.5 | 64 | 106 |
| 8MegaTech1000 | 8 | 1/2 | 12 | 0.80 | 20.3 | 1000 | 68 | 4000 | 275 | 3.5 | 89 | 106 |
| 10MegaTech1000 | 10 | 5/8 | 16 | 0.93 | 23.6 | 1000 | 68 | 4000 | 275 | 4.0 | 102 | 91 |
| 12MegaTech1000 | 12 | 3/4 | 19 | 1.15 | 29.2 | 1000 | 68 | 4000 | 275 | 4.7 | 119 | 60 |
| 16MegaTech1000 | 16 | 1 | 25 | 1.37 | 34.8 | 1000 | 68 | 4000 | 275 | 6.0 | 152 | 45 |
| 20MegaTech1000 | 20 | 1-1/4 | 31 | 1.68 | 42.7 | 1000 | 68 | 4000 | 275 | 8.5 | 216 | 30 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | |
|----------------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 4MegaTech1000 | Gates 1 Piece Series 4G | HSG-03 | SGX16 | HTG-13 | TEXS20 | SB22 | 14LG4K | 6SC4 |
| 6MegaTech1000 | 6G | HSG-04 | SGX20 | HTG-16 | TEXS27 | SB25 | 16LG3K | 6SC4 |
| 8MegaTech1000 | 8G | HSG-07 | SGX25 | HTG-18 | TEXS31 | SB29 | 20LG3K | 8SC4 |
| 10MegaTech1000 | 10G | HSG-09 | SGX32 | - | TEXS36 | SB34 | 22LG3K | 10SC4 |
| 12MegaTech1000 | 12G | HSG-10 | SGX40 | - | TEXS44 | SB41 | 26LG3K | 12SC4 |
| 16MegaTech1000 | 16G | HSG-12 | SGX50 | HTG-24 | TEXS53 | SB48 | 32LG3K | 16SC4 |
| 20MegaTech1000 | 20G | HSG-14 | SGX50 | HTG-30 | TEXS66 | SB54 | - | |

RFS Red Fire Suppressant Hose

Meets Flame Resistance Acceptance Designation MSHA 2G

Specialty

Recommended For: Low pressure powder fire suppressant applications in mining, forestry and firefighting equipment. The red cover is for easy visual identification in these applications.

Standards: Meets performance requirements of SAE 100R1.



Tube: Black, oil resistant, synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Red, oil and abrasion resistant synthetic rubber (Nitrile & PVC).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|------|------|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | Inch | |
| 3RFS | 3 | 3/16 | 5 | 0.45 | 11.5 | 3000 | 206 | 12000 | 827 | 3.0 | 76 | 134 |
| 4RFS | 4 | 1/4 | 6 | 0.53 | 13.5 | 2750 | 189 | 11000 | 758 | 4.0 | 102 | 134 |
| 6RFS | 6 | 3/8 | 10 | 0.68 | 17.3 | 2250 | 155 | 9000 | 620 | 5.0 | 127 | 91 |
| 8RFS | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 137 | 8000 | 551 | 7.0 | 178 | 100 |
| 12RFS | 12 | 3/4 | 19 | 1.09 | 27.7 | 1250 | 86 | 5000 | 344 | 9.5 | 241 | 91 |
| 16RFS | 16 | 1 | 25 | 1.41 | 35.8 | 1000 | 68 | 4000 | 275 | 12.0 | 304 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | Associated Protective Product Guide | | | | |
|----------------|------------------------|-------------------------|---------|-------------------------|---------|-------------------------------------|--------------|------------|------------|--------------------|
| | Standard | Gates | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| 1 Piece Series | | 2 Piece Series Coupling | Ferrule | 2 Piece Series Coupling | Ferrule | | | | | |
| 3RFS | - | 3PC | 3PC1FS | - | - | HSG-01 | SGX12 | HTG-10 | TEXS20 | SB19 |
| 4RFS | 4G | - | - | S | FNP-04 | HSG-02 | SGX12 | HTG-13 | TEXS23 | SB22 |
| 6RFS | 6G | - | - | S | FNP-06 | HSG-03 | SGX12 | HTG-16 | TEXS27 | SB25 |
| 8RFS | 8G | - | - | - | - | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB25 |
| 12RFS | 12G | - | - | - | - | HSG-09 | SGX25 | HTG-24 | TEXS44 | SB41 |
| 16RFS | 16G | - | - | - | - | HSG-11 | SGX32 | HTG-30 | TEXS55 | SB48 |



Section 1 Hydraulic Hose

MegaTech® 500 High-Temp Oil-Air Return

High Temp
149°C

Fleet

Recommended For: Air brake hose, pressurised hot oil return lines and rotary oil/air compressor lines. Not recommended for gasoline or diesel fuel applications.

Tube: Black tube specifically compounded for temperature and chemical resistance (CPE).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire.

Cover: Oil and mildew resistant, textile braid, impregnated with synthetic rubber.

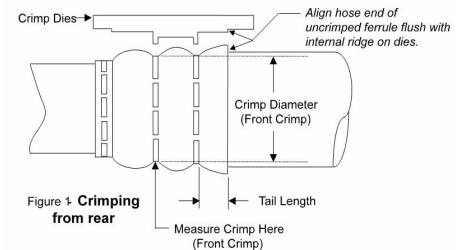
See *Hose Stock Characteristics*.

Temperature Range: Petroleum-based fluids: -40°F to +300°F (-40°C to +149°C).

Phosphate ester fluids as recommended by the fluid manufacturer but within range of -40°F to +212°F (-40°C to +100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications



*Gates coupling crimp pattern

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊖ | | ⊖ | | ⊖ | | Length Reel m |
|---------------|----------|-------|----|------|------|-----|-----|------|-----|------|-----|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 24MegaTech500 | 24 | 1-1/2 | 38 | 1.95 | 49.5 | 500 | 34 | 2000 | 137 | 15.0 | 381 | 30 |
| 32MegaTech500 | 32 | 2 | 51 | 2.48 | 63.0 | 500 | 34 | 2000 | 137 | 18.0 | 457 | 30 |
| 40MegaTech500 | 40 | 2-1/2 | 63 | 2.97 | 75.4 | 500 | 34 | 2000 | 137 | 22.0 | 558 | 30 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | |
|----------------|------------------------|-------------------------|-----------|-------------------------------------|--------------|------------|------------|--------------------|
| | Standard | Gates | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| 1 Piece Series | | 2 Piece Series Coupling | Ferrule | | | | | |
| 24MegaTech500 | 24GL | 24GSP | 24GSP1F-2 | HSG-14 | SGX63 | HTG-36 | TEXS73 | SB60 |
| 32MegaTech500 | 32GL | 32GSP | 32GSP1F-2 | HSG-15A | SGX75 | HTG-44 | TEXS93 | SB73 |
| 40MegaTech500 | 40GL | | | - | SGX79 | HTG-64 | TEXS112 | SB79 |

C5C Hydraulic Hose - SAE 100R5

Fleet

Recommended For: Medium pressure hydraulic petroleum based oil lines in impulse applications, lube oil, air and water in applications such as air brakes, power steering (CAUTION: intended for heavy duty commercial vehicle use only), turbocharger oil supplies, tilt cab cylinders, transmission coolant and filtration lines.

Standards: Meets or exceeds requirements of SAE 100R5 for traditional hydraulic applications, DOT FMVSS 106-74 Type All and SAE J1402 Type All for air brake applications (-4 to -12). Not recommended for gasoline or diesel fuel.



Tube: Black, oil and heat resistant synthetic rubber (Polychloroprene -4 and -5, Nitrile -6 through -40).

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile carbon steel wire over one braid of polyester.

Cover: Black, oil and mildew resistant, polyester braid.

See *Hose Stock Characteristics*.

Temperature Range: Under SAE 100R5 (hydraulic) conditions -40°F to +212°F (-40°C to +100°C). All-purpose fleet application (hot lube oil lines) -40°F to +300°F (-40°C to +149°C). Air to +160°F (+71°C) only. Avoid continuous use at maximum temperature concurrent with maximum working pressure.

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|-------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4C5C | 4 | 3/16 | 5 | 0.52 | 13.2 | 3000 | 206 | 12000 | 827 | 3.0 | 76 | 134 |
| 5C5C | 5 | 1/4 | 6 | 0.58 | 14.7 | 3000 | 206 | 12000 | 827 | 3.4 | 86 | 117 |
| 6C5C | 6 | 5/16 | 8 | 0.67 | 17.0 | 2250 | 155 | 9000 | 621 | 4.0 | 102 | 117 |
| 8C5C | 8 | 13/32 | 10 | 0.77 | 19.6 | 2000 | 137 | 8000 | 551 | 4.6 | 117 | 100 |
| 10C5C | 10 | 1/2 | 12 | 0.92 | 23.4 | 1750 | 120 | 7000 | 482 | 5.5 | 140 | 83 |
| 12C5C | 12 | 5/8 | 16 | 1.08 | 27.4 | 1500 | 103 | 6000 | 413 | 6.5 | 165 | 67 |
| 16C5C | 16 | 7/8 | 22 | 1.23 | 31.2 | 800 | 55 | 3200 | 220 | 7.4 | 188 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|------------------------|----------------------|-------------------------------------|-------------------|--------------|------------|------------|--------------------|------------|
| | Standard | Gates Field Fit Series | Child 2 Piece Series | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard |
| Coupling | | | Ferrule | | | | | | | |
| 4C5C | 4C5 | P | FSP-204 | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG3K | 6SC4 |
| 5C5C | 5C5X | S | FSP-204 | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6C5C | 6C5 | S | FSP-206A | HSG-03 | SGX20 | HTG-18 | TEXS27 | SB25 | 16LG3K | 6SC4 |
| 8C5C | 8C5X | S | FNP-06 | HSG-04 | SGX20 | HTG-20 | TEXS31 | SB25 | 20LG3K | 8SC4 |
| 10C5C | 10C5 | S | FSP-210 | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB29 | 22LG3K | 10SC4 |
| 12C5C | 12C5X | S | FNP-12 | HSG-08 | SGX32 | HTG-24 | TEXS44 | SB34 | 26LG3K | 12SC4 |
| 16C5C | 16C5 | - | - | HSG-10 | SGX32 | HTG-26 | TEXS47 | SB44 | 32LG3K | 16SC4 |



Section 1 Hydraulic Hose

C5C-XH Xtreme® Heat Hose - SAE 100R5

High Temp
150°C

Fleet

Recommended For: Extremely high temperature petroleum based or phosphate ester fluids, turbo charger oil supply and hot lube oil lines.

Standards: DOT FMVSS 106-74 Type All and SAE J1402 Type All (-4 to -12)



Tube: Black, oil and heat-resistant synthetic polymer tube (CPE)

See *Hose Stock Characteristics*.

Reinforcement: Braided high-tensile wire and textile.

Cover: Blue, oil and mildew-resistant polyester/textile braid.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +302°F (-40°C to +150°C)

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊖ | | ⊖ | | ⊖ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|-------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 5C5CXH | 5 | 1/4 | 6 | 0.58 | 14.7 | 3000 | 206 | 12000 | 827 | 3.4 | 86 | 117 |
| 6C5CXH | 6 | 5/16 | 8 | 0.67 | 17.0 | 2250 | 155 | 9000 | 621 | 4.0 | 101 | 117 |
| 8C5CXH | 8 | 13/32 | 10 | 0.77 | 19.6 | 2000 | 137 | 8000 | 551 | 4.6 | 116 | 100 |
| 10C5CXH | 10 | 1/2 | 12 | 0.92 | 23.4 | 1750 | 120 | 7000 | 482 | 5.5 | 139 | 83 |
| 12C5CXH | 12 | 5/8 | 16 | 1.08 | 27.4 | 1500 | 103 | 6000 | 413 | 6.5 | 165 | 67 |
| 16C5CXH | 16 | 7/8 | 22 | 1.23 | 31.2 | 800 | 55 | 3200 | 220 | 7.4 | 187 | 50 |
| 20C5CXH | 20 | 1-1/8 | 28 | 1.50 | 38.1 | 625 | 43 | 2500 | 172 | 9.0 | 229 | 36 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|----------------|-------------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Gates | | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Field Fit Series | 1 Piece Series | 2 Piece Series Coupling | Ferrule | | | | | | | |
| 5C5CXH | 5C5X | 4G | - | - | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6C5CXH | 6C5 | 5G | - | - | HSG-03 | SGX20 | HTG-18 | TEXS27 | SB25 | 16LG3K | 6SC4 |
| 8C5CXH | 8C5X | 6G | - | - | HSG-04 | SGX20 | HTG-20 | TEXS31 | SB25 | 20LG3K | 8SC4 |
| 10C5CXH | 10C5 | - | 8GS | 8GS1F-4 | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB29 | 22LG3K | 10SC4 |
| 12C5CXH | 12C5X | - | 10GS | 10GS1F-4 | HSG-08 | SGX32 | HTG-24 | TEXS44 | SB34 | 22LG3K | 10SC4 |
| 16C5CXH | 16C5 | 12G | - | - | HSG-10 | SGX32 | HTG-26 | TEXS47 | SB41 | 26LG3K | 16SC4 |
| 20C5CXH | 20C5 | 16G | - | - | HSG-11 | SGX40 | HTG-30 | TEXS60 | SB48 | 32LG3K | 16SC4 |

Section 1 Hydraulic Hose



C5E High-Temp Flexline Hose

High Temp
149°C

Fleet

Recommended For: Air brake hose, power steering (CAUTION: intended for heavy duty commercial vehicle use only), engine and transmission coolant lines and hot (+300°F (+149°C)) lube oil lines. Not recommended for gasoline or diesel fuel.

Standards: DOT FMVSS 106 Type A1 and SAE J1402 Type A1 (-4 to -12)

Tube: Black, oil and heat-resistant synthetic rubber (Nitrile)

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire over one braid of polyester.

Cover: Black, oil and heat resistant, textile braid impregnated with synthetic rubber.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +300°F (-40°C to +149°C). Air +250°F (+121°C) maximum only.

For water emulsions see *Temperature Limits Table*.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4C5E | 4 | 3/16 | 5 | 0.49 | 12.5 | 1500 | 103 | 6000 | 414 | 0.8 | 20 | 134 |
| 5C5E | 5 | 1/4 | 6 | 0.55 | 14.0 | 1500 | 103 | 6000 | 414 | 1.0 | 25 | 117 |
| 6C5E | 6 | 5/16 | 8 | 0.61 | 15.5 | 1500 | 103 | 6000 | 414 | 1.3 | 33 | 117 |
| 8C5E | 8 | 13/32 | 10 | 0.73 | 18.5 | 1250 | 86 | 5000 | 345 | 1.8 | 46 | 100 |
| 10C5E | 10 | 1/2 | 12 | 0.83 | 21.1 | 1250 | 86 | 5000 | 345 | 2.3 | 58 | 83 |
| 12C5E | 12 | 5/8 | 16 | 0.95 | 24.1 | 750 | 52 | 3000 | 207 | 3.0 | 76 | 67 |
| 16C5E | 16 | 7/8 | 22 | 1.20 | 30.5 | 400 | 28 | 1600 | 110 | 3.5 | 89 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|------------------------|----------------------|-------------------------------------|-------------------|--------------|------------|------------|--------------------|------------|
| | Standard | Gates Field Fit Series | Child 2 Piece Series | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard |
| Coupling | | | Ferrule | | | | | | | |
| 4C5E | 4C5E | - | - | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG3K | 6SC4 |
| 5C5E | 5C5E | S | FSP-204 | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB19 | 14LG3K | 6SC4 |
| 6C5E | 6C5E | S | FNP-05 | HSG-03 | SGX20 | HTG-18 | TEXS25 | SB25 | 16LG3K | 6SC4 |
| 8C5E | 8C5E | S | FNP-06 | HSG-04 | SGX20 | HTG-20 | TEXS31 | SB25 | 20LG3K | 8SC4 |
| 10C5E | 10C5E | S | FSP-208 | HSG-06 | SGX25 | HTG-22 | TEXS33 | SB29 | 22LG3K | 10SC4 |
| 12C5E | 12C5E | S | FNP-10 | HSG-08 | SGX32 | HTG-24 | TEXS40 | SB34 | 26LG3K | 12SC4 |
| 16C5E | 16C5E | - | - | HSG-09 | SGX32 | HTG-24 | TEXS47 | SB34 | 32LG3K | 16SC4 |



Section 1 Hydraulic Hose

G3H High-Temp 2 Fibre Braid Hose - SAE 100R3

High Temp
135°C

Transfer

Recommended For: Hydraulic oil lines, anti-freeze solutions or water.

Standards: Meets or exceeds requirements of SAE 100R3.

Tube: Black synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: Two fibre braids.

Cover: Black, oil and abrasion-resistant, synthetic rubber (Polychloroprene).

See *Hose Stock Characteristics*.

Temperature Range: For hydraulic oil lines -40°F to +275°F (-40°C to +135°C)

constant and +300°F (+149°C) intermittent (up to 10% of operating time).

For water emulsions see *Temperature Limits Table*.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|------|-----|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4G3H | 4 | 1/4 | 6 | 0.56 | 14.2 | 1250 | 86 | 5000 | 345 | 3.0 | 76 | 138 |
| 6G3H | 6 | 3/8 | 10 | 0.75 | 19.0 | 1125 | 78 | 4500 | 310 | 4.0 | 102 | 106 |
| 8G3H | 8 | 1/2 | 12 | 0.94 | 23.9 | 1000 | 69 | 4000 | 276 | 5.0 | 127 | 68 |
| 12G3H | 12 | 3/4 | 19 | 1.25 | 31.8 | 750 | 52 | 3000 | 207 | 6.0 | 152 | 48 |
| 16G3H | 16 | 1 | 25 | 1.50 | 38.1 | 565 | 39 | 2260 | 156 | 8.0 | 203 | 36 |
| 20G3H | 20 | 1-1/4 | 31 | 1.75 | 44.5 | 375 | 26 | 1500 | 103 | 10.0 | 254 | 36 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | |
|-----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Gates 1 Piece Series | | | | | | | |
| 4G3H | 4G | HSG-02 | SGX16 | HTG-13 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6G3H | 6G | HSG-03 | SGX20 | HTG-18 | TEXS31 | SB25 | 14LG3K | 6SC4 |
| 8G3H | 8GLX | HSG-06 | SGX25 | HTG-20 | TEXS36 | SB29 | 16LG3K | 6SC4 |
| 12G3H | 12GLX | HSG-10 | SGX32 | HTG-26 | TEXS47 | SB34 | 20LG3K | 8SC4 |
| 16G3H | 16GLX | HSG-12 | SGX40 | HTG-30 | TEXS60 | SB41 | - | - |
| 20G3H | 20GLX | HSG-13 | SGX50 | HTG-34 | TEXS66 | SB54 | - | - |

* Note GLX couplings are only crimped on the rear of the ferrule. The final crimp should have a bubble at the connection end of the ferrule. See below.

1. GLX couplings are only crimped on the rear of the ferrule, the final crimp should have a bubble at the connection end of the ferrule.
2. Buff required only if hose OD prohibits insertion into coupling; Buff OD 22.1mm; Buff Length 23mm

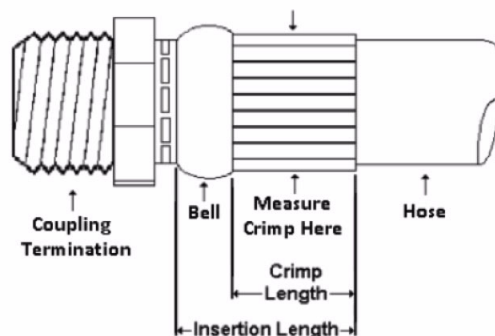


Figure 11 - GLX coupling crimp

TH8 Hydraulic Hose - SAE 100R8

Thermoplastic

Recommended For: Petroleum, water base and synthetic hydraulic fluids.

Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery. Multiline available.

Standards: Meets or exceeds performance requirements of SAE 100R8 with a significantly tighter bend radius.



Tube: 100% seamless Nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

See *Hose Stock Characteristics*.

Reinforcement: Polyester.

Cover: Black urethane resists hydraulic fluids, high temperatures, ageing and weathering. Black TH8 cover is perforated for use in general hydraulic and pneumatic service.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|------|------|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH8 | 4 | 1/4 | 6 | 0.61 | 15.5 | 5000 | 345 | 20000 | 1379 | 2.0 | 51 | 76 |
| 6TH8 | 6 | 3/8 | 10 | 0.75 | 19.0 | 4000 | 276 | 16000 | 1103 | 2.5 | 64 | 76 |
| 8TH8 | 8 | 1/2 | 12 | 0.87 | 22.1 | 3500 | 241 | 14000 | 966 | 4.0 | 102 | 76 |
| 12TH8 | 12 | 3/4 | 19 | 1.13 | 28.7 | 2250 | 155 | 9000 | 621 | 6.5 | 165 | 60 |
| 16TH8 | 16 | 1 | 25 | 1.45 | 36.8 | 2000 | 138 | 8000 | 552 | 10.0 | 254 | 60 |

Couplings and Additional Products

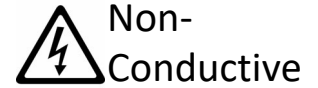
| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | | |
|-----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | Gates 1 Piece Series | | | | | | | | |
| 4TH8 | 4G | HSG-02 | SGX16 | HTG-18 | TEXS25 | SB22 | 14LG5K | 6SC4 | |
| 6TH8 | 6G | HSG-04 | SGX16 | HTG-20 | TEXS31 | SB25 | 16LG4K | 6SC4 | |
| 8TH8 | 8G | HSG-06 | SGX20 | HTG-26 | TEXS36 | SB29 | 20LG4K | 8SC4 | |
| 12TH8 | 12G | HSG-08 | SGX25 | HTG-30 | TEXS44 | SB34 | 26LG3K | 12SC4 | |
| 16TH8 | 16G | HSG-11 | SGX40 | HTG-34 | TEXS60 | SB41 | 32LG3K | 16SC4 | |



Section 1

Hydraulic Hose

TH8NC Non-Conductive Hydraulic Hose SAE 100R8



Thermoplastic

Recommended For: Petroleum, water base and synthetic hydraulic fluids.

Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery. Multiline available.

Standards: TH8NC (orange cover) meets SAE 100R8 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R8 with a significantly tighter bend radius.

Tube: 100% seamless Nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

See *Hose Stock Characteristics*.

Reinforcement: Polyester.

Cover: Orange urethane resists hydraulic fluids, high temperatures, ageing and weathering. TH8NC is non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R8 Electrical Conductivity Test. Maximum leakage shall not exceed 50 microamperes when subjected to 75 kV/ft for five minutes.

(Orange is the industry-accepted colour for non-conductive hose)

See *Hose Stock Characteristics*.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|------|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH8NC | 4 | 1/4 | 6 | 0.61 | 15.5 | 5000 | 345 | 20000 | 1379 | 2.0 | 51 | 76 |
| 6TH8NC | 6 | 3/8 | 10 | 0.75 | 19.0 | 4000 | 276 | 16000 | 1103 | 2.5 | 64 | 76 |
| 8TH8NC | 8 | 1/2 | 12 | 0.87 | 22.1 | 3500 | 241 | 14000 | 966 | 4.0 | 102 | 76 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | | |
|-----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | Gates 1 Piece Series | | | | | | | | |
| 4TH8NC | 4G | HSG-02 | SGX16 | HTG-18 | TEXS25 | SB22 | 14LG5K | 6SC4 | |
| 6TH8NC | 6G | HSG-04 | SGX16 | HTG-20 | TEXS31 | SB25 | 16LG4K | 6SC4 | |
| 8TH8NC | 8G | HSG-06 | SGX20 | HTG-26 | TEXS36 | SB29 | 20LG4K | 8SC4 | |

Note: The use of protective products over this hose type may negate the non-conductivity of the hose and should therefore be considered prior to use.

TH7 Hydraulic Hose - SAE 100R7

Thermoplastic

Recommended For: Petroleum, water-based and synthetic hydraulic fluids.

Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery.

Standards: TH7 hose meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.



Tube: 100% seamless Nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre.

Cover: Black urethane that resists hydraulic fluids, high temperatures, ageing and weathering. Black TH7 cover is perforated for use in general hydraulic and pneumatic service.

See *Hose Stock Characteristics*.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊖ | | ⊖ | | ⊖ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH7 | 4 | 1/4 | 6 | 0.50 | 12.7 | 2750 | 190 | 11000 | 759 | 1.5 | 38 | 76 |
| 5TH7 | 5 | 5/16 | 8 | 0.56 | 14.2 | 2500 | 172 | 10000 | 689 | 2.3 | 57 | 76 |
| 6TH7 | 6 | 3/8 | 10 | 0.64 | 16.3 | 2250 | 155 | 9000 | 621 | 2.8 | 70 | 76 |
| 8TH7 | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 138 | 8000 | 552 | 3.8 | 95 | 76 |
| 12TH7 | 12 | 3/4 | 19 | 1.05 | 26.7 | 1250 | 86 | 5000 | 345 | 5.0 | 127 | 60 |
| 16TH7 | 16 | 1 | 25 | 1.32 | 33.6 | 1000 | 69 | 4000 | 276 | 6.5 | 165 | 60 |

Couplings and Additional Products

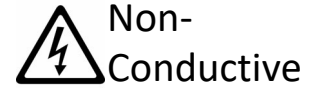
| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|-----------|----------------------------|---|---------|-------------------------------------|-----------------|---------------|----------------|--------------------------|---------------|-------------------------|
| | Gates 1 Piece Series | Child 2 Piece Series Coupling Ferrule | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex- Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 4TH7 | 4G | S | FSP-204 | HSG-02 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG5K | 6SC4 |
| 5TH7 | 5G | - | - | HSG-03 | SGX16 | HTG-14 | TEXS23 | SB22 | 14LG5K | 6SC4 |
| 6TH7 | 6G | - | - | HSG-03 | SGX16 | HTG-20 | TEXS25 | SB25 | 16LG4K | 6SC4 |
| 8TH7 | 8G | - | - | HSG-05 | SGX20 | HTG-26 | TEXS31 | SB29 | 20LG4K | 8SC4 |
| 12TH7 | 12G | - | - | HSG-08 | SGX25 | HTG-30 | TEXS44 | SB34 | 26LG3K | 12SC4 |
| 16TH7 | 16G | - | - | HSG-11 | SGX40 | HTG-34 | TEXS53 | SB48 | 32LG3K | 16SC4 |



Section 1

Hydraulic Hose

TH7NC Hydraulic Hose - SAE 100R7



Thermoplastic

Recommended For: Petroleum and synthetic hydraulic fluids. Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery.

Standards: Orange colour TH7NC meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.

Meets ANSI A92.2 for vehicle-mounted aerial devices.



Tube: Size -2, -12 and -16: 100% seamless Nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

Size -3 through -8: Polyester.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre, Nylon (-2 only).

Cover: Orange urethane resists hydraulic fluids, high temperatures, ageing and weathering. Orange TH7NC cover is non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R7 Electrical Conductivity Test. Maximum leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.

(Orange is the industry-accepted colour for non-conductive hose)

See *Hose Stock Characteristics*.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH7NC | 4 | 1/4 | 6 | 0.50 | 12.7 | 2750 | 190 | 11000 | 759 | 1.5 | 38 | 76 |
| 5TH7NC | 5 | 5/16 | 8 | 0.56 | 14.2 | 2500 | 172 | 10000 | 689 | 2.3 | 57 | 76 |
| 6TH7NC | 6 | 3/8 | 10 | 0.64 | 16.3 | 2250 | 155 | 9000 | 621 | 2.8 | 70 | 76 |
| 8TH7NC | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 138 | 8000 | 552 | 3.8 | 95 | 76 |
| 12TH7NC | 12 | 3/4 | 19 | 1.05 | 26.7 | 1250 | 86 | 5000 | 345 | 5.0 | 127 | 60 |
| 16TH7NC | 16 | 1 | 25 | 1.32 | 33.6 | 1000 | 69 | 4000 | 276 | 6.5 | 167 | 60 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | | | |
|----------------------------|------------------------|----------------------------|---------|-------------------------------------|-------------------------|-----------------|---------------|----------------|--------------------------|---------------|
| | Standard | Gates 1 Piece Series | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex- Sleeve | Shrink Band Clamps | Life Guard |
| 2 Piece Series Coupling | | | Ferrule | | | | | | | |
| 4TH7NC | 4G | S | FSP-204 | HSG-02 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG5K | 6SC4 |
| 5TH7NC | 5G | - | - | HSG-03 | SGX16 | HTG-14 | TEXS23 | SB22 | 14LG5K | 6SC4 |
| 6TH7NC | 6G | - | - | HSG-03 | SGX16 | HTG-20 | TEXS25 | SB25 | 16LG4K | 6SC4 |
| 8TH7NC | 8G | - | - | HSG-05 | SGX20 | HTG-26 | TEXS31 | SB29 | 20LG4K | 8SC4 |
| 12TH7NC | 12G | - | - | HSG-08 | SGX25 | HTG-30 | TEXS44 | SB34 | 26LG3K | 12SC4 |
| 16TH7NC | 16G | - | - | HSG-11 | SGX40 | HTG-34 | TEXS53 | SB48 | 32LG3K | 16SC4 |

Note: The use of protective products over this hose type may negate the non-conductivity of the hose and should therefore be considered prior to use.

TH7DL Dual Line Hydraulic Hose - SAE 100R7

Thermoplastic

Recommended For: Petroleum, water base and synthetic hydraulic fluids.

Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery.

Standards: TH7DL meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.



Tube: 100% seamless Nylon that easily handles a broad range of hydraulic fluids, including phosphate esters and water glycol.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre.

Cover: Black urethane resists hydraulic fluids, high temperatures, ageing and weathering. Black TH7DL cover is perforated for use in general hydraulic and pneumatic service.

See *Hose Stock Characteristics*.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH7DL | 4 | 1/4 | 6 | 0.50 | 12.7 | 2750 | 190 | 11000 | 759 | 1.5 | 38 | 76 |
| 5TH7DL | 5 | 5/16 | 8 | 0.56 | 14.2 | 2500 | 172 | 10000 | 689 | 2.3 | 57 | 76 |
| 6TH7DL | 6 | 3/8 | 10 | 0.64 | 16.2 | 2250 | 155 | 9000 | 621 | 2.8 | 70 | 76 |
| 8TH7DL | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 138 | 8000 | 552 | 3.8 | 95 | 76 |

Couplings and Additional Products

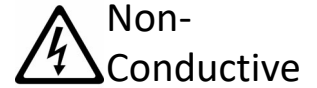
| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | |
|-----------|----------------------------|---|---------|-------------------------------------|----------------|--------------------------|---------------|-------------------------|
| | Gates 1 Piece Series | Child 2 Piece Series Coupling Ferrule | | Heat Guard | Tex- Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| 4TH7DL | 4G | S | FSP-204 | HTG-22 | TEXS40 | SB41 | 26LG3K | - |
| 5TH7DL | 5G | - | - | HTG-26 | TEXS44 | SB41 | 32LG3K | - |
| 6TH7DL | 6G | - | - | HTG-30 | TEXS53 | SB48 | 32LG3K | - |
| 8TH7DL | 8G | - | - | HTG-36 | TEXS66 | SB54 | - | - |



Section 1

Hydraulic Hose

TH7NCDL Non-Conductive Hydraulic Hose SAE 100R7



Thermoplastic

Recommended For: Petroleum and synthetic hydraulic fluids. Applications include: power and telephone mobile equipment (cherry pickers), lubrication lines, blowout preventer control lines, hydraulic lifts and farm & construction machinery.

Standards: Orange colour TH7NCDL meets SAE 100R7 non-conductivity requirements and meets or exceeds performance requirements of SAE 100R7 with a significantly tighter bend radius.

Meets ANSI A92.2 for vehicle-mounted aerial devices.



Tube: Nylon

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre

Cover: Orange urethane resists hydraulic fluids, high temperatures, ageing and weathering. TH7NCDL is non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R7 Electrical Conductivity Test. Maximum leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.

(Orange is the industry-accepted colour for non-conductive hose)

See *Hose Stock Characteristics*.

Temperature Range: -65°F to +200°F (-54°C to +93°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water, water/oil emulsions and water glycol.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH7NCDL | 4 | 1/4 | 6 | 0.50 | 12.7 | 2750 | 190 | 11000 | 759 | 1.5 | 38 | 76 |
| 6TH7NCDL | 6 | 3/8 | 10 | 0.64 | 16.3 | 2250 | 155 | 9000 | 621 | 2.8 | 70 | 76 |
| 8TH7NCDL | 8 | 1/2 | 12 | 0.80 | 20.3 | 2000 | 138 | 8000 | 552 | 3.8 | 95 | 76 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | Associated Protective Product Guide | | | | |
|-----------|----------------------------|-------------------------|---------|-------------------------------------|----------------|--------------------------|---------------|-------------------------|
| | Gates 1 Piece Series | Child 2 Piece Series | | Heat Guard | Tex- Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | | Coupling | Ferrule | | | | | |
| 4TH7NCDL | 4G | S | FSP-204 | HTG-22 | TEXS40 | SB41 | 26LG3K | - |
| 6TH7NCDL | 6G | - | - | HTG-30 | TEXS53 | SB48 | 32LG3K | - |
| 8TH7NCDL | 8G | - | - | HTG-36 | TEXS66 | SB54 | - | - |

Note: The use of protective products over this hose type may negate the non-conductivity of the hose and should therefore be considered prior to use.

TH18 Constant Pressure Hydraulic Hose - SAE 100R18

Thermoplastic

Recommended For: Petroleum and synthetic hydraulic fluids. TH18 is ideal for industrial and agricultural applications exposed to low temperatures or cyclic and quick temperature changes. Remains highly flexible in cold weather conditions.

Standards: TH18 hose meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.



Tube: Polyester elastomer.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre.

Cover: Black urethane perforated

See *Hose Stock Characteristics*.

Temperature Range: -67°F to +212°F (-55°C to +100°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water-based fluids.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | ⊙ | | ⊙ | | Length Reel | |
|-------------|----------|------|------|----|------|------|------|-----|-------|-----|-----|-------------|----|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | | mm |
| 4TH18 | 4 | | 1/4 | 6 | 0.48 | 12.2 | 3000 | 207 | 12000 | 828 | 1.4 | 36 | 76 |
| 5TH18 | 5 | | 5/16 | 8 | 0.56 | 14.2 | 3000 | 207 | 12000 | 828 | 1.8 | 46 | 76 |
| 6TH18 | 6 | | 3/8 | 10 | 0.65 | 16.5 | 3000 | 207 | 12000 | 828 | 1.8 | 46 | 76 |
| 8TH18 | 8 | | 1/2 | 12 | 0.89 | 22.6 | 3000 | 207 | 12000 | 828 | 2.8 | 71 | 76 |
| 10TH18 | 10 | | 5/8 | 16 | 1.03 | 26.2 | 3000 | 207 | 12000 | 828 | 3.9 | 99 | 76 |

Couplings and Additional Products

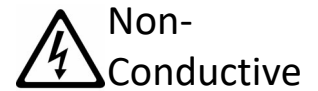
| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | |
|-----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Gates 1 Piece Series | | | | | | | |
| 4TH18 | 4G | HSG-02 | SGX16 | HTG-14 | TEXS20 | SB19 | 14LG3K | 6SC4 |
| 5TH18 | 5G | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6TH18 | 6G | HSG-03 | SGX16 | HTG-16 | TEXS25 | SB25 | 16LG3K | 6SC4 |
| 8TH18 | 8G | HSG-06 | SGX20 | HTG-20 | TEXS36 | SB29 | 20LG3K | 8SC4 |
| 10TH18 | 10G | HSG-08 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG3K | 10SC4 |



Section 1

Hydraulic Hose

TH18NC Constant Pressure Non-Conductive Hydraulic Hose - SAE 100R18



Thermoplastic

Recommended For: Petroleum and synthetic hydraulic fluids in hydraulic systems. TH18NC non-conductive hose is suitable for use in high-voltage applications. Remains highly flexible in cold weather conditions and is resistant to hydraulic fluids, high temperatures, ageing and weathering.

Standards: TH18NC hose meets or exceeds performance requirements of SAE 100R18 with a significantly tighter bend radius.



Tube: Polyester elastomer.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic fibre.

Cover: Special Urethane, orange (industry-accepted colour for non-conductive hose), non-perforated for applications requiring electrical non-conductivity. Meets SAE 100R18 Electrical Conductivity Test. Maximum leakage shall not exceed 50 microamperes when subjected to 75kV/ft for five minutes.

See *Hose Stock Characteristics*.

Temperature Range: -67°F to +212°F (-55°C to +100°C) continuous service for petroleum and synthetic oils. Maximum of +158°F (+70°C) for water-based fluids.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|------|-----|-------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4TH18NC | 4 | 1/4 | 6 | 0.48 | 12.2 | 3000 | 207 | 12000 | 828 | 1.4 | 36 | 76 |
| 5TH18NC | 5 | 5/16 | 8 | 0.56 | 14.2 | 3000 | 207 | 12000 | 828 | 1.8 | 46 | 76 |
| 6TH18NC | 6 | 3/8 | 10 | 0.65 | 16.5 | 3000 | 207 | 12000 | 828 | 1.8 | 46 | 76 |
| 8TH18NC | 8 | 1/2 | 12 | 0.89 | 22.6 | 3000 | 207 | 12000 | 828 | 2.8 | 71 | 76 |
| 10TH18NC | 10 | 5/8 | 16 | 1.03 | 26.2 | 3000 | 207 | 12000 | 828 | 3.9 | 99 | 76 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | |
|-----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Gates 1 Piece Series | | | | | | | |
| 4TH18NC | 4G | HSG-02 | SGX16 | HTG-14 | TEXS20 | SB19 | 14LG3K | 6SC4 |
| 5TH18NC | 5G | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6TH18NC | 6G | HSG-03 | SGX16 | HTG-16 | TEXS25 | SB25 | 16LG3K | 6SC4 |
| 8TH18NC | 8G | HSG-06 | SGX20 | HTG-20 | TEXS36 | SB29 | 20LG3K | 8SC4 |
| 10TH18NC | 10G | HSG-08 | SGX25 | HTG-22 | TEXS40 | SB34 | 22LG3K | 10SC4 |

Note: The use of protective products over this hose type may negate the non-conductivity of the hose and should therefore be considered prior to use.

Section 1 Hydraulic Hose



MultiMaster™ GMV Megaflex® Return Line/Suction, Fuel Transfer, Coolant Applications

High Temp
135°C

MSHA-approved cover for critical and mining applications

Recommended For: Hydraulic return and suction lines transferring refined fuels or other petroleum products, and coolant lines. Applications requiring excellent flexibility and maximum resistance to air, water, coolant, petroleum lubricating oils and refined fuels.



Standards: Meets or exceeds SAE 100R4. Meets SAE J30R5 and SAE J20R5* (*except tube dimensions).

Tube: Nitrile, black.

Reinforcement: Synthetic, high tensile textile reinforcement with steel wire helix.

Cover: Polychloroprene. Black, corrugated.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +275°F (-40°C to +135°C) Laboratory tested for normal service. Increased operating temperatures will reduce hose assembly service life. Warning: Do not convey fuels over +120°F (+49°C) and for coolant applications (20R5) max temperature is +212°F (+100°C).

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | ⊚ | | Length Reel | |
|-------------------|----------|------|-------|----|------|------|-----|------|-----|-------------|----|
| | Standard | Dash | in | DN | in | mm | psi | bar | in | | mm |
| 12MULTIMASTER-GMV | 12 | | 3/4 | 19 | 1.20 | 30.5 | 350 | 24.1 | 0.8 | 20 | 30 |
| 16MULTIMASTER-GMV | 16 | | 1 | 25 | 1.41 | 35.8 | 300 | 20.7 | 1.0 | 25 | 30 |
| 20MULTIMASTER-GMV | 20 | | 1-1/4 | 32 | 1.66 | 42.2 | 250 | 17.2 | 1.3 | 33 | 30 |
| 24MULTIMASTER-GMV | 24 | | 1-1/2 | 38 | 1.90 | 48.3 | 150 | 10.3 | 1.5 | 38 | 30 |
| 32MULTIMASTER-GMV | 32 | | 2 | 51 | 2.39 | 60.7 | 150 | 10.3 | 2.0 | 51 | 30 |
| 40MULTIMASTER-GMV | 40 | | 2-1/2 | 63 | 2.94 | 74.7 | 150 | 10.3 | 2.5 | 64 | 30 |

Also available in 3", 4" and 6"

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | | | | | Associated Protective Product Guide | | | | | |
|-------------------|------------------------|----------------|----------------|-----------|----------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|
| | Gates | | | | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Hose Clamp |
| | 1 Piece Series | 1 Piece Series | 2 Piece Series | | 2 Piece Series | | | | | | | |
| 12MULTIMASTER-GMV | - | 12GL | - | - | S | FSS-12 | HSG-09 | SGX32 | HTG-26 | TEXS47 | SB34 | TTBY29-31P |
| 16MULTIMASTER-GMV | 16G | 16GL | - | - | S | FSP-216 | HSG-11 | SGX40 | HTG-32 | TEXS55 | SB41 | TTBY34-37P |
| 20MULTIMASTER-GMV | 20G | 20GL | - | - | S | FSP-220 | HSG-13 | SGX50 | HTG-34 | TEXS66 | SB54 | TTBY40-43P |
| 24MULTIMASTER-GMV | - | 24GL | 24GSP | 24GSP1F-2 | S | FSP-424 | HSG-14 | SGX50 | HTG-38 | TEXS73 | SB60 | TTBY46-49P |
| 32MULTIMASTER-GMV | - | 32GL | 32GSP | 32GSP1F-2 | S | FSP-432 | HSG-15A | SGX63 | HTG-56 | TEXS93 | SB73 | TTBY58-61P |
| 40MULTIMASTER-GMV | - | 40GL | - | - | - | - | HSG-16 | SGX90 | HTG-64 | TEXS112 | SB86 | TTBY71-76P |

Beaded Product

| Hose Type | Child Beaded Couplings (use clamps) | | | | |
|-------------------|-------------------------------------|---------------------|-----------------|--------------------|-----------------------------|
| | BSPT Male/Female | BSPP Male/Female | NPT Male/Female | Metric Male/Female | SAE O-Ring Boss Male/Female |
| 12MULTIMASTER-GMV | CB4, CB5, CB41, CB60 | CP4, CR4, CB5, CP60 | CN4, CN41 | - | C5, C41, C60 |
| 16MULTIMASTER-GMV | CB4, CB5, CB41, CB60 | CP4, CR4, CB5, CP60 | CN4, CN41 | CM4 | C5, C41, C60 |
| 20MULTIMASTER-GMV | CB4, CB5, CB41, CB60 | CP4, CR4, CB5, CP60 | CN4, CN41 | CM4 | C5, C41, C60 |
| 24MULTIMASTER-GMV | CB4, CB41, CB60 | CP4, CR4, CP60 | CN4, CN60 | CM4 | C5, C41, C60 |
| 32MULTIMASTER-GMV | CB4, CB60 | CP4 | CN4 | - | - |
| 40MULTIMASTER-GMV | CB4 | - | - | - | - |



Section 1

Hydraulic Hose

RLA 1-Fibre Braid Return Line & Low Pressure Hose

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: Low-pressure hydraulic oil return lines for general purpose water, glycol antifreeze solutions, conveying diesel fuel, gasoline or air.

Standards: Meets SAE 30R2 performance requirements of both Type 1 and Type 2 for fuel and B20 constant contact up to 125°F (51°C) biodiesel fuel transfer applications.



Tube: Black oil resistant synthetic rubber (Nitrile and PVC).

See *Hose Stock Characteristics*.

Reinforcement: One fibre braid (-3 to -10). Spiral braid (-12 to -16).

Cover: Black synthetic rubber. Oil and abrasion resistant (Nitrile & PVC).

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C). Air to +160°F (+71°C) only.

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|------|----|------|------|-----|-----|------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 3RLA | 3 | 3/16 | 5 | 0.41 | 10.4 | 250 | 17 | 1000 | 69 | 3.0 | 76 | 168 |
| 4RLA | 4 | 1/4 | 6 | 0.50 | 12.7 | 250 | 17 | 1000 | 69 | 3.0 | 76 | 168 |
| 5RLA | 5 | 5/16 | 8 | 0.56 | 14.2 | 250 | 17 | 1000 | 69 | 4.0 | 102 | 168 |
| 6RLA | 6 | 3/8 | 10 | 0.66 | 16.8 | 250 | 17 | 1000 | 69 | 4.0 | 102 | 168 |
| 8RLA | 8 | 1/2 | 12 | 0.81 | 20.6 | 200 | 14 | 800 | 55 | 5.0 | 127 | 168 |
| 10RLA | 10 | 5/8 | 16 | 0.94 | 23.9 | 200 | 14 | 800 | 55 | 6.0 | 152 | 168 |
| 12RLA | 12 | 3/4 | 19 | 1.09 | 27.7 | 200 | 14 | 800 | 55 | 6.0 | 152 | 168 |
| 16RLA | 16 | 1 | 25 | 1.34 | 34.0 | 160 | 11 | 640 | 44 | 8.0 | 203 | 122 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | Hose Clamp |
| Standard | Gates | | | | | | | | |
| | 1 Piece Series | | | | | | | | |
| 3RLA | - | HSG-01 | SGX16 | HTG-12 | TEXS17 | SB19 | 14LG3K | 6SC4 | MH004 |
| 4RLA | 4G | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB22 | 14LG3K | 6SC4 | MH004 |
| 5RLA | 5G | HSG-02 | SGX20 | HTG-15 | TEXS23 | SB25 | 14LG3K | 6SC4 | MH004 |
| 6RLA | 6G | HSG-03 | SGX20 | HTG-18 | TEXS27 | SB25 | 14LG3K | 6SC4 | HS006 |
| 8RLA | 8G | HSG-05 | SGX25 | HTG-20 | TEXS31 | SB34 | 16LG3K | 6SC4 | HS008 |
| 10RLA | 10G | HSG-07 | SGX32 | HTG-20 | TEXS36 | SB34 | 20LG3K | 8SC4 | HS012 |
| 12RLA | 12G | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 | HS012 |
| 16RLA | 16G | HSG-11 | SGX40 | HTG-28 | TEXS53 | SB48 | 32LG3K | 16SC4 | HS016 |

LOL Plus Lock-On Hose

*NOTE: being superseded by "Plant Master Xtreme 300 Lock-on Braid"

Meets Flame Resistance Acceptance Designation MSHA 2G (Black Cover Only)

Recommended For: Petroleum-base hydraulic oils, water, glycol antifreeze 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 (Nitrile), highly resistant to oil and heat. See *Hose Stock Characteristics*.

Reinforcement: One fibre braid.

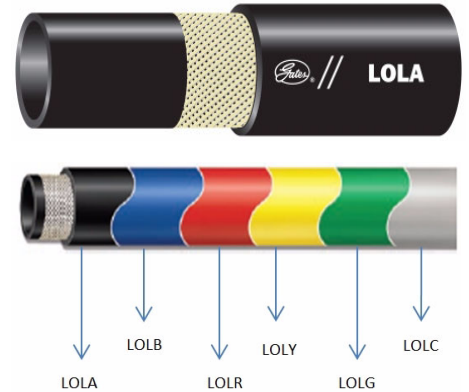
Cover: Oil and abrasion resistant synthetic rubber (Nitrile & PVC).

See *Hose Stock Characteristics*.

Available In: Black (LOLA), blue (LOLB), green (LOLG), red (LOLR), yellow (LOLY) and grey (LOLC) colours. Only black cover meets MSHA.

Temperature Range: -40°F to +212°F (-40°C to +100°C). Air to +160°F (+71°C) only.

For water emulsions see *Temperature Limits Table*.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊖ | | ⊖ | | ⊖ | | ⊖ | | Length Reel |
|-------------|----------|------|----|------|------|-----|-----|------|-----|-----|-----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 3LOLA | 3 | 3/16 | 5 | 0.41 | 10.4 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 91 |
| 4LOLA | 4 | 1/4 | 6 | 0.47 | 11.9 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 145 |
| 5LOLA | 5 | 5/16 | 8 | 0.55 | 14.0 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 91 |
| 6LOLA | 6 | 3/8 | 10 | 0.63 | 16.0 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 91 |
| 8LOLA | 8 | 1/2 | 12 | 0.77 | 19.6 | 300 | 21 | 1200 | 83 | 5.0 | 127 | 91 |
| 10LOLA | 10 | 5/8 | 16 | 0.94 | 23.9 | 300 | 21 | 1200 | 83 | 6.0 | 152 | 76 |
| 12LOLA | 12 | 3/4 | 19 | 1.06 | 26.9 | 300 | 21 | 1200 | 83 | 7.0 | 178 | 68 |

Couplings and Additional Products

| Hose Type | Couplings | | | Associated Protective Product Guide | | | | | | | |
|-----------|-------------|--------|-----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|------------|
| | Gates | | Child | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | Hose Clamp |
| Standard | 1 Piece GLP | LOC ON | Push Lock | | | | | | | | |
| 3LOLA | - | - | - | HSG-01 | SGX16 | HTG-12 | TEXS17 | SB19 | 14LG3K | 6SC4 | MH004 |
| 4LOLA | 4GLP | 4LOC | L | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB22 | 14LG3K | 6SC4 | MH004 |
| 5LOLA | - | 5LOC | L | HSG-02 | SGX20 | HTG-15 | TEXS23 | SB25 | 14LG3K | 6SC4 | MH004 |
| 6LOLA | 6GLP | 6LOC | L | HSG-03 | SGX20 | HTG-18 | TEXS25 | SB25 | 14LG3K | 6SC4 | HS006 |
| 8LOLA | 8GLP | 8LOC | L | HSG-05 | SGX25 | HTG-20 | TEXS31 | SB34 | 16LG3K | 6SC4 | HS008 |
| 10LOLA | 10GLP | 10LOC | L | HSG-07 | SGX32 | HTG-20 | TEXS36 | SB34 | 20LG3K | 8SC4 | HS012 |
| 12LOLA | 12GLP | 12LOC | L | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 | HS012 |



Section 1

Hydraulic Hose

LOC 1-Fibre Braid Lock-On Hose

Recommended For: Petroleum-base hydraulic oils, water, glycol anti-freeze compounds, water, 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.

Standards: Meets SAE 30R2, SAE 30R6 and SAE 30R7 performance requirements for fuel and B20 biodiesel fuel transfer applications up to +125°F (51.6°C).



Tube: Black oil resistant synthetic rubber (Nitrile).

See *Hose Stock Characteristics*.

Reinforcement: One fibre braid.

Cover: Oil and mildew resistant textile braid impregnated with synthetic rubber.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

Air -40°F to +160°F (-40°C to +71°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel | |
|-------------|----------|------|-----|----|------|------|-----|-----|------|-----|-----|-------------|----|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | | mm |
| 4LOC | 4 | | 1/4 | 6 | 0.52 | 13.2 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 91 |
| 6LOC | 6 | | 3/8 | 10 | 0.64 | 16.3 | 300 | 21 | 1200 | 83 | 3.0 | 76 | 91 |
| 8LOC | 8 | | 1/2 | 12 | 0.80 | 20.3 | 300 | 21 | 1200 | 83 | 5.0 | 127 | 91 |
| 10LOC | 10 | | 5/8 | 16 | 0.90 | 22.9 | 300 | 21 | 1200 | 83 | 6.0 | 152 | 76 |
| 12LOC | 12 | | 3/4 | 19 | 1.00 | 25.4 | 300 | 21 | 1200 | 83 | 7.0 | 178 | 68 |

Couplings and Additional Products

| HoseType | Couplings | | | Associated Protective Product Guide | | | | | | | |
|----------|-------------|--------|-----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|------------|
| | Gates | | Child | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | Hose Clamp |
| Standard | 1 Piece GLP | LOC ON | Push Lock | | | | | | | | |
| 4LOC | 4GLP | 4LOC | L | HSG-02 | SGX16 | HTG-13 | TEXS20 | SB22 | 14LG3K | 6SC4 | MH004 |
| 6LOC | 6GLP | 6LOC | L | HSG-02 | SGX20 | HTG-15 | TEXS25 | SB25 | 14LG3K | 6SC4 | HS006 |
| 8LOC | 8GLP | 8LOC | L | HSG-05 | SGX20 | HTG-18 | TEXS31 | SB34 | 16LG3K | 6SC4 | HS008 |
| 10LOC | 10GLP | 10LOC | L | HSG-07 | SGX25 | HTG-20 | TEXS36 | SB34 | 20LG3K | 8SC4 | HS012 |
| 12LOC | 12GLP | 12LOC | L | HSG-09 | SGX25 | HTG-22 | TEXS40 | SB41 | 26LG3K | 12SC4 | HS012 |

PolarSeal® Hose

SAE J51 Type A2 Dimensions; SAE J51 Type D Performance; SAE J2064 Type C Class II

Recommended For: Liquid and gaseous R134a and R12 refrigerants in automotive air conditioning and industrial systems ie tractors, construction trucks, mobile and stationary refrigeration units. Designed to minimise permeation of R134a refrigerant.

Standards: PolarSeal® (ACA) full dimension barrier hose. SAE J51, Type A2 Dimensions, Type D Performance; SAE J3062, Type C, Class II Performance.



Tube: Black synthetic rubber (Polychloroprene).

See *Hose Stock Characteristics*.

Reinforcement: Two layers of spiral polyester.

Cover: Black synthetic rubber (EPDM).

See *Hose Stock Characteristics*.

Temperature Range: -22°F to +257°F (-30°C to +125°C).

Barrier: Nylon liner.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel m |
|-------------|----------|-------|----|------|------|-----|-----|------|-----|-----|-----|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 6AC134A | 6 | 5/16 | 10 | 0.74 | 18.8 | 500 | 34 | 2000 | 138 | 2.0 | 51 | 103 |
| 8AC134A | 8 | 13/32 | 12 | 0.91 | 23.1 | 500 | 34 | 2000 | 138 | 3.0 | 76 | 71 |
| 10AC134A | 10 | 1/2 | 16 | 1.00 | 25.4 | 500 | 34 | 2000 | 138 | 4.0 | 102 | 64 |
| 12AC134A | 12 | 5/8 | 19 | 1.13 | 28.7 | 500 | 34 | 2000 | 138 | 5.0 | 127 | 53 |

Couplings and Additional Products

| HoseType | Couplings | Associated Protective Product Guide | | | | |
|----------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| Standard | Gates 1 Piece ACA | | | | | |
| 6AC134A | 6ACA | HSG-05 | SGX20 | HTG-15 | TEXS31 | SB22 |
| 8AC134A | 8ACA | HSG-05 | SGX25 | HTG-20 | TEXS36 | SB25 |
| 10AC134A | 10ACA | HSG-07 | SGX25 | HTG-22 | TEXS40 | SB29 |
| 12AC134A | 12ACA | HSG-09 | SGX32 | HTG-24 | TEXS44 | SB34 |



Section 1 Hydraulic Hose

CleanMaster Pressure Wash 1 & 2 Wire Water Pressure Wash Hose

Supersedes Power Clean

Standards: Meets MSHA Flame-resistance. Exceeds EN1829-2

Recommended For: Hot and cold water high-pressure cleaning equipment used in commercial and industrial cleaning, food processing, sanitation and car wash applications where heavy-duty service is required. Specially compounded cover to handle harsh environments.

Tube: Nitrile, Black.

See *Hose Stock Characteristics*.

Reinforcement: Braided, steel wire.

Cover: Modified Nitrile. Non-marking except for black. Abrasion-resistant, ozone-resistant, MSHA flame-resistant. Blue, grey and yellow covers are subject to availability.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

For water emulsions see *Temperature Limits Table*.

Caution: Not recommended for steam service. Use bend restrictors to extend service life.



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | Ⓜ | | Number of braids | Length Reel m |
|---------------|----------|------|----|------|------|------|-----|-----|----|------------------|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | in | | |
| 4PW4000-BLACK | 4 | 1/4 | 6 | 0.53 | 13.5 | 4000 | 276 | 2.0 | 51 | 1 wire | 91 |
| 4PW6000-BLACK | 4 | 1/4 | 6 | 0.59 | 15.0 | 6000 | 414 | 2.0 | 51 | 2 wire | 91 |
| 6PW3000-BLACK | 6 | 3/8 | 10 | 0.67 | 17.0 | 3000 | 207 | 2.5 | 64 | 1 wire | 91 |
| 6PW3000-BLUE | 6 | 3/8 | 10 | 0.67 | 17.0 | 3000 | 207 | 2.5 | 64 | 1 wire | 91 |
| 6PW5000-BLUE | 6 | 3/8 | 10 | 0.74 | 18.8 | 5000 | 345 | 2.5 | 64 | 2 wire | 91 |
| 6PW6000-BLACK | 6 | 3/8 | 10 | 0.74 | 18.8 | 6000 | 414 | 2.5 | 64 | 2 wire | 91 |
| 6PW6000-BLUE | 6 | 3/8 | 10 | 0.74 | 18.8 | 6000 | 414 | 2.5 | 64 | 2 wire | 91 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | |
|---------------|-------------------------|-------------------------------------|--------------|------------|------------|--------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| Standard | Gates 1 Piece Series | | | | | |
| 4PW4000-BLACK | 4G | HSG-02 | SGX16 | HTG-14 | TEXS23 | SB15 |
| 4PW6000-BLACK | 4G | HSG-02 | SGX16 | HTG-14 | TEXS23 | SB15 |
| 6PW3000-BLACK | 6G | HSG-03 | SGX20 | HTG-16 | TEXS27 | SB19 |
| 6PW3000-BLUE | 6G | HSG-03 | SGX20 | HTG-16 | TEXS27 | SB19 |
| 6PW5000-BLACK | 6G | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB19 |
| 6PW6000-BLACK | 6G | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB19 |
| 6PW6000-BLUE | 6G | HSG-04 | SGX20 | HTG-18 | TEXS31 | SB19 |

C5M Marine Fuel Line Hose

Meets Flame Resistance Acceptance Designation MSHA 2G

Recommended For: All commercial and recreational vessel fuel line applications.

Suitable for marine diesel, gasoline, B100 bio diesel, gasahol fuels and hot oil applications.

Standards: Meets SAE J1527 B100 +125°F (51°C) Type A Class 1 and SAE J1942 requirements. Exceeds SAE J30R2 for non-marine requirements.

Tube: Nitrile

See *Hose Stock Characteristics*.

Reinforcement: One wire braid.

Cover: Nitrile & PVC. Blue.

See *Hose Stock Characteristics*.

Temperature Range: -4°F to +212°F (-20°C to +100°C) continuous service



Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|-----|-----|------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 6C5M | 6 | 5/16 | 8 | 0.67 | 17.0 | 500 | 34 | 2000 | 138 | 1.3 | 33 | 117 |
| 8C5M | 8 | 13/32 | 10 | 0.77 | 19.6 | 500 | 34 | 2000 | 138 | 1.8 | 46 | 100 |
| 10C5M | 10 | 1/2 | 12 | 0.92 | 23.4 | 500 | 34 | 2000 | 138 | 2.3 | 58 | 83 |
| 12C5M | 12 | 5/8 | 16 | 1.08 | 27.4 | 500 | 34 | 2000 | 138 | 2.8 | 71 | 67 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | | |
|-----------|------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|--|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar | |
| Standard | Gates Field Fit Series | | | | | | | | |
| 6C5M | 6C5 | HSG-03 | SGX20 | HTG-18 | TEXS27 | SB25 | 16LG3K | 6SC4 | |
| 8C5M | 8C5X | HSG-04 | SGX20 | HTG-20 | TEXS31 | SB29 | 20LG3K | 8SC4 | |
| 10C5M | 10C5 | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB34 | 22LG3K | 10SC4 | |
| 12C5M | 12C5X | HSG-08 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 | |



Section 1

Hydraulic Hose

C5D High-Temp Multi-Fluid Hose

High Temp
149°C

DOT FMVSS 106-74 Type All & SAE J1402 Type All (-4 to -12)

Recommended For: Petroleum-based or phosphate ester fluids, diesel fluids and filtration lines, transmission coolant lines, hot lube oil lines, power steering (caution: intended for heavy-duty commercial vehicle use only), gasoline and turbocharger oil supplies. Tilt cab cylinder and air brakes.

Standards: C5D (-4 to -12) meets or exceeds DOT FMVSS 106-74 Type All, SAE J1402 Type All. Not approved for bio diesel.



Tube: Black, oil- and heat-resistant synthetic rubber (CPE)

See *Hose Stock Characteristics*.

Reinforcement: One braid of high-tensile steel wire over one braid of polyester.

Cover: Green for easy identification, oil- and mildew-resistant polyester braid impregnated with synthetic rubber.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +300°F (-40°C to +149°C). Air to +250°F (+121°C) only.

Maximum phosphate esters to +212°F (+100°C).

For water emulsions see *Temperature Limits Table*.

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | ⊙ | | ⊙ | | ⊙ | | Length Reel |
|-------------|----------|-------|----|------|------|------|-----|------|-----|-----|----|-------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 4C5D | 4 | 3/16 | 5 | 0.52 | 13.2 | 1500 | 103 | 6000 | 414 | 1.0 | 25 | 134 |
| 5C5D | 5 | 1/4 | 6 | 0.58 | 14.7 | 1500 | 103 | 6000 | 414 | 1.5 | 38 | 117 |
| 6C5D | 6 | 5/16 | 8 | 0.67 | 17.0 | 1500 | 103 | 6000 | 414 | 1.8 | 46 | 117 |
| 8C5D | 8 | 13/32 | 10 | 0.77 | 19.6 | 1250 | 86 | 5000 | 345 | 2.0 | 51 | 100 |
| 10C5D | 10 | 1/2 | 12 | 0.92 | 23.4 | 1250 | 86 | 5000 | 345 | 2.0 | 51 | 83 |
| 12C5D | 12 | 5/8 | 16 | 1.08 | 27.4 | 750 | 52 | 3000 | 207 | 2.3 | 58 | 67 |
| 16C5D | 16 | 7/8 | 22 | 1.23 | 31.2 | 400 | 27 | 1600 | 110 | 3.5 | 89 | 50 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | | | |
|-----------|------------------------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Gates Field Fit Series | | | | | | | |
| 4C5D | 4C5 | HSG-01 | SGX16 | HTG-13 | TEXS20 | SB19 | 14LG3K | 6SC4 |
| 5C5D | 5C5X | HSG-02 | SGX16 | HTG-15 | TEXS23 | SB22 | 14LG3K | 6SC4 |
| 6C5D | 6C5 | HSG-03 | SGX20 | HTG-18 | TEXS27 | SB25 | 16LG3K | 6SC4 |
| 8C5D | 8C5X | HSG-04 | SGX20 | HTG-20 | TEXS31 | SB29 | 20LG3K | 8SC4 |
| 10C5D | 10C5 | HSG-06 | SGX25 | HTG-22 | TEXS36 | SB34 | 22LG3K | 10SC4 |
| 12C5D | 12C5X | HSG-08 | SGX32 | HTG-24 | TEXS44 | SB41 | 26LG3K | 12SC4 |
| 16C5D | 16C5 | HSG-10 | SGX32 | HTG-26 | TEXS47 | SB48 | 32LG3K | 16SC4 |

Gates Safety Stripe II Fuel Line/PCV/Evaporative Emission Control Hose

Specification: SAE 30R6 & 30R7

Recommended For: Multi-purpose hose for use on 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, methanol and ethers (up to the legal limits allowed by the EPA).

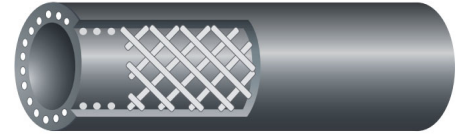
Warning: Do not use for pressure lines on fuel injection engines or for cooling system applications. Use Multi-Port Injection (MPI) hose for fuel injection applications.

Tube: Nitrile.

Reinforcement: Reinforced construction.

Cover: Modified Nitrile. Oil resistant cover resists the effects of high heat and ozone found in engine compartments.

Temperature Range: -40°F to +257°F (-40°C to +125°C).



Hose Specifications

| Part Number | ⊖ | | | ⊕ | | Suction | | Length Reel |
|-------------|----------|------|----|----|-----|---------|-------|-------------|
| | Standard | Dash | in | DN | psi | bar | in Hg | |
| 27001 | 3 | 3/16 | 5 | 50 | 3.4 | 24 | 609 | 7.6 |
| 27002 | 4 | 1/4 | 6 | 50 | 3.4 | 24 | 609 | 7.6 |
| 27003 | 5 | 5/16 | 8 | 50 | 3.4 | 24 | 609 | 7.6 |
| 27004 | 6 | 3/8 | 10 | 50 | 3.4 | 24 | 609 | 7.6 |
| 27006 | 8 | 1/2 | 12 | 35 | 2.4 | 10 | 254 | 7.6 |

Gates 4219G Fuel Line/Tank Vent/Evaporative Emission Control Hose

Specification: Exceeds SAE 30R6 & 30R7

Recommended For: Fuel line applications to provide flexible connections between rigid fuel distribution lines and the engine. Also for use in evaporative emission control systems as a vent line.

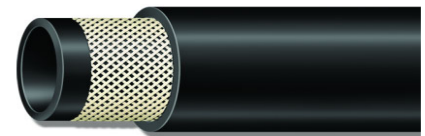
Warning: Not recommended for fuel injection systems.

Tube: Black Nitrile. Oil, petrol and gasohol resistant.

Reinforcement: Single ply of synthetic fibre.

Cover: NBR/PVC. Black. Fuel, ozone and high temperature resistant.

Temperature Range: -40°F to +257°F (-40°C to +125°C).



Hose Specifications

| Part Number | ⊖ | | | ⊕ | | Suction | | Length Reel |
|-------------|----------|------|----|----|-----|---------|-------|-------------|
| | Standard | Dash | in | DN | psi | bar | in Hg | |
| 42190103 | 4 | 1/4 | 6 | 50 | 3.4 | 24 | 609 | 198 |
| 42190107 | 5 | 5/16 | 8 | 50 | 3.4 | 24 | 609 | 198 |
| 42190109 | 6 | 3/8 | 10 | 50 | 3.4 | 24 | 609 | 198 |
| 42190102 | 8 | 1/2 | 12 | 35 | 2.4 | 10 | 254 | 182 |



Section 1

Hydraulic Hose

Gates PS-188 Power Steering Hose

Specification: SAE J2050

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 fluids (Hypalon).

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 environments (Type CSM).

Temperature Range: -40°F to +300°F (-40°C to +150°C).



Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | ⊙ | | ⊙ | | Length Reel m |
|-------------|----------|------|----|------|------|------|-----|------|-----|-----|----|------------------|
| | Standard | Dash | in | DN | in | mm | psi | bar | psi | bar | in | |
| 6PS-188 | 6 | 3/8 | 10 | 0.71 | 18.0 | 1500 | 103 | 6000 | 414 | 3.2 | 83 | 15.2 |

Couplings and Additional Products

| Standard | Couplings & Ferrules | | Associated Protective Product Guide | | | | | | |
|----------|----------------------|----------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | Child | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| | 2 Piece Series | | | | | | | | |
| 6PS-188 | S | FSP-206A | - | - | - | - | - | - | - |

Gates Windshield Washer, Vacuum & Radiator Overflow

Specification: Meets SAE J1037, J942B

Recommended For: Windshield washers, vacuum operated accessories and radiator overflow.

Vacuum and kink resistant construction.

Vacuum rated to 24" Hg (610mm Hg).

25psi working pressure.

Temperature Range: -40°F to +257°F (-40°C to +125°C).



Hose Specifications

| Part Number | ⊖ | | Nipple Size | | ⊙ | | Suction | | Length Reel m |
|-------------|------|-----|-------------|------|-----|-----|---------|-------|------------------|
| | in | mm | in | mm | psi | bar | in Hg | mm Hg | |
| 27041 | 7/64 | 2.8 | 1/8 | 3.2 | 25 | 2 | 24 | 610 | 15.2 |
| 27042 | 5/32 | 4.0 | 3/16 | 4.8 | 25 | 2 | 24 | 610 | 15.2 |
| 27043 | 7/32 | 5.6 | 1/4 | 6.4 | 25 | 2 | 24 | 610 | 15.2 |
| 27044 | 1/4 | 6.4 | 5/16 | 7.9 | 25 | 2 | 24 | 610 | 15.2 |
| 27050 | 5/16 | 7.9 | 3/8 | 9.5 | 25 | 2 | 24 | 610 | 7.6 |
| 27053 | 3/8 | 9.5 | 7/16 | 11.1 | 25 | 2 | 24 | 610 | 7.6 |

Section 1 Hydraulic Hose



Plant Master Xtreme 250

Supersedes PremoFlex



Non-Conductive
at 1,000V DC

Specification: 3205R, Non-Conductive at 1,000V DC

Recommended For: Applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to 100°C). Recommended for gasoline, kerosene and fuel oil transfer only (to 49°C). Excellent weather and ozone resistance. Approved for breathing applications such as supplied air respirators.



Standards: Non-conductive at 1000V DC. Electrical resistance is greater than one megaohm per inch when subjected to 1000V DC. Storage and use may adversely affect electrical properties. Tube: ARPM (Class A) high oil resistance. Cover: ARPM (Class B) medium oil resistance.

Tube: Nitrile. Black.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Modified Nitrile. Red.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C) continuous service

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ⊕ | | ⊙ | | Suction | | ⊕ | | Length Reel |
|-----------------------------|------|-------|----|------|------|-----|-----|---------|-------|------|-----|-------------|
| | Dash | in | DN | in | mm | psi | bar | in Hg | mm Hg | in | mm | |
| 4 PLANT MASTER XTREME 250 | 4 | 1/4 | 6 | 0.50 | 12.7 | 250 | 17 | 30 | 762 | 2.0 | 51 | 152 |
| 5 PLANT MASTER XTREME 250 | 5 | 5/16 | 8 | 0.56 | 14.2 | 250 | 17 | 30 | 762 | 2.0 | 51 | 152 |
| 6 PLANT MASTER XTREME 250 | 6 | 3/8 | 10 | 0.66 | 16.8 | 250 | 17 | 30 | 762 | 3.0 | 76 | 152 |
| 8 PLANT MASTER XTREME 250 | 8 | 1/2 | 12 | 0.85 | 21.6 | 250 | 17 | 25 | 635 | 4.0 | 102 | 152 |
| *10 PLANT MASTER XTREME 250 | 10 | 5/8 | 16 | 0.98 | 24.9 | 250 | 17 | 20 | 508 | 5.0 | 127 | 152 |
| 12 PLANT MASTER XTREME 250 | 12 | 3/4 | 19 | 1.15 | 29.2 | 250 | 17 | 20 | 508 | 5.0 | 127 | 152 |
| 16 PLANT MASTER XTREME 250 | 16 | 1 | 25 | 1.47 | 37.3 | 250 | 17 | 10 | 254 | 8.0 | 203 | 122 |
| 20 PLANT MASTER XTREME 250 | 20 | 1-1/4 | 31 | 1.75 | 44.5 | 250 | 17 | 10 | 254 | 10.0 | 254 | 91 |
| 24 PLANT MASTER XTREME 250 | 24 | 1-1/2 | 38 | 2.00 | 50.8 | 250 | 17 | 10 | 254 | 12.0 | 305 | 61 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | |
|-----------------------------|---------------------------|-------------------------------------|--------------|------------|------------|--------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| Standard | Gates Low Pressure Series | | | | | |
| 4 PLANT MASTER XTREME 250 | GLX | HSG-02 | SGX16 | HTG-13 | TEXS20 | SB15 |
| 5 PLANT MASTER XTREME 250 | - | HSG-03 | SGX16 | HTG-14 | TEXS23 | SB22 |
| 6 PLANT MASTER XTREME 250 | GLX | HSG-04 | SGX16 | HTG-20 | TEXS27 | SB22 |
| 8 PLANT MASTER XTREME 250 | GLX | HSG-06 | SGX20 | HTG-22 | TEXS33 | SB25 |
| *10 PLANT MASTER XTREME 250 | - | HSG-07 | SGX20 | HTG-22 | TEXS40 | SB25 |
| 12 PLANT MASTER XTREME 250 | GLX | HSG-08 | SGX25 | HTG-30 | TEXS44 | SB34 |
| 16 PLANT MASTER XTREME 250 | GLX | HSG-11 | SGX40 | HTG-34 | TEXS60 | SB41 |
| 20 PLANT MASTER XTREME 250 | GLX | HSG-13 | SGX50 | HTG-34 | TEXS73 | SB48 |
| 24 PLANT MASTER XTREME 250 | - | HSG-15 | SGX50 | HTG-38 | TEXS85 | SB54 |

*Non-stocked item in Australia



Section 1

Hydraulic Hose

Plant Master Xtreme 315



Non-Conductive
at 1,000V DC

Supersedes PremoFlex

Specification: 3205R, Non-Conductive at 1,000V DC

Recommended For: Applications requiring a premium grade spiral hose with excellent flexibility and maximum resistance to air, water, petroleum oils and lubricating oils (to 100°C). Recommended for gasoline, kerosene and fuel oil transfer only (to 49°C). Excellent weather and ozone resistance. Approved for breathing applications such as supplied air respirators.

Standards: Non-conductive at 1000V DC. Electrical resistance is greater than one megaohm per inch when subjected to 1000V DC. Storage and use may adversely affect electrical properties.

Tube: ARPM (Class A) high oil resistance.

Cover: ARPM (Class B) medium oil resistance.



Tube: Nitrile. Black.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Modified Nitrile. Red.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C) continuous service

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | Suction | | ⊕ | | Length Reel |
|-----------------------------|------|------|----|------|------|-----|-----|---------|-------|-----|-----|-------------|
| | Dash | in | DN | in | mm | psi | bar | in Hg | mm Hg | in | mm | |
| *4 PLANT MASTER XTREME 315 | 4 | 1/4 | 6 | 0.57 | 14.5 | 315 | 22 | 30 | 762 | 2.0 | 51 | 152 |
| *5 PLANT MASTER XTREME 315 | 5 | 5/16 | 8 | 0.67 | 17.0 | 315 | 22 | 30 | 762 | 2.0 | 51 | 152 |
| *6 PLANT MASTER XTREME 315 | 6 | 3/8 | 10 | 0.73 | 18.5 | 315 | 22 | 30 | 762 | 3.0 | 76 | 152 |
| *8 PLANT MASTER XTREME 315 | 8 | 1/2 | 12 | 0.88 | 22.4 | 315 | 22 | 25 | 635 | 4.0 | 102 | 152 |
| 10 PLANT MASTER XTREME 315 | 10 | 5/8 | 16 | 0.98 | 24.9 | 315 | 22 | 20 | 508 | 5.0 | 127 | 152 |
| *12 PLANT MASTER XTREME 315 | 12 | 3/4 | 19 | 1.19 | 30.2 | 315 | 22 | 20 | 508 | 5.0 | 127 | 152 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | Associated Protective Product Guide | | | | |
|-----------------------------|---------------------------|-------------------------------------|--------------|------------|------------|--------------------|
| | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| Standard | Gates Low Pressure Series | | | | | |
| *4 PLANT MASTER XTREME 315 | - | HSG-02 | SGX16 | HTG-15 | TEXS23 | - |
| *5 PLANT MASTER XTREME 315 | - | HSG-03 | SGX20 | HTG-16 | TEXS27 | - |
| *6 PLANT MASTER XTREME 315 | GLX | HSG-04 | SGX20 | HTG-18 | TEXS27 | SB22 |
| *8 PLANT MASTER XTREME 315 | GLX | HSG-06 | SGX25 | HTG-20 | TEXS33 | SB25 |
| 10 PLANT MASTER XTREME 315 | - | HSG-07 | SGX25 | HTG-22 | TEXS36 | - |
| *12 PLANT MASTER XTREME 315 | GLX | HSG-10 | SGX32 | HTG-28 | TEXS44 | SB34 |

*Non-stocked item in Australia

Section 1 Hydraulic Hose



Plant Master Xtreme 501 AR

Supersedes Terminator



Non-Conductive
at 1,000V DC
*except 1-1/2" & 2"

Specification: 3202T/3202TW, Meets MSHA Flame-resistance

Recommended For: Applications requiring a premium-quality, multi-purpose hose with superior abrasion resistance for air, oil and some chemical applications. Excellent durability for extra-long life in these applications: mining, air drill, construction, poultry plants and other severe service. Good weather and ozone resistance.



Tube: Nitrile. Black.

See *Hose Stock Characteristics*.

Reinforcement: Synthetic, high tensile textile cord.

Cover: Carboxylated Nitrile. Yellow.

See *Hose Stock Characteristics*.

Temperature Range: -40°F to +212°F (-40°C to +100°C) continuous service

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Hose Specifications

| Part Number | ⊖ | | | ∅ | | ⊙ | | Suction | | Ⓜ | | Length Reel |
|-------------------------------|------|-------|----|------|------|-----|-----|---------|-------|------|-----|-------------|
| | Dash | in | DN | in | mm | psi | bar | in Hg | mm Hg | in | mm | |
| 4 PLANT MASTER XTREME 501 AR | 4 | 1/4 | 6 | 0.57 | 14.5 | 501 | 35 | 30 | 762 | 3.0 | 76 | 152 |
| 6 PLANT MASTER XTREME 501 AR | 6 | 3/8 | 10 | 0.75 | 19.1 | 501 | 35 | 25 | 635 | 3.0 | 76 | 152 |
| 8 PLANT MASTER XTREME 501 AR | 8 | 1/2 | 12 | 0.89 | 22.6 | 501 | 35 | 25 | 635 | 5.0 | 127 | 152 |
| 12 PLANT MASTER XTREME 501 AR | 12 | 3/4 | 19 | 1.22 | 31.0 | 501 | 35 | 15 | 381 | 6.0 | 152 | 152 |
| 16 PLANT MASTER XTREME 501 AR | 16 | 1 | 25 | 1.51 | 38.4 | 501 | 35 | 10 | 254 | 8.0 | 203 | 121 |
| 20 PLANT MASTER XTREME 501 AR | 20 | 1-1/4 | 31 | 1.78 | 45.2 | 501 | 35 | 10 | 254 | 10.0 | 254 | 91 |
| 24 PLANT MASTER XTREME 501 AR | 24 | 1-1/2 | 38 | 2.09 | 53.1 | 501 | 35 | 10 | 254 | 12.0 | 305 | 30 |
| 32 PLANT MASTER XTREME 501 AR | 32 | 2 | 51 | 2.64 | 67.1 | 501 | 35 | 10 | 254 | 14.0 | 356 | 30 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | Associated Protective Product Guide | | | | |
|-------------------------------|---|-----------|-------------------------------------|--------------|------------|------------|--------------------|
| | Gates 1- & 2-piece Series Coupling Ferrule | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps |
| 4 PLANT MASTER XTREME 501 AR | G | | HSG-02 | SGX16 | HTG-13 | TEXS23 | SB19 |
| 6 PLANT MASTER XTREME 501 AR | G or GLX | | HSG-03 | SGX20 | HTG-18 | TEXS31 | SB22 |
| 8 PLANT MASTER XTREME 501 AR | G or GLX | | HSG-06 | SGX25 | HTG-20 | TEXS36 | SB25 |
| 12 PLANT MASTER XTREME 501 AR | G or GLX | | HSG-10 | SGX32 | HTG-26 | TEXS47 | SB34 |
| 16 PLANT MASTER XTREME 501 AR | G or GLX | | HSG-12 | SGX40 | HTG-30 | TEXS60 | SB48 |
| 20 PLANT MASTER XTREME 501 AR | G or GLX | | HSG-13 | SGX50 | HTG-34 | TEXS73 | SB54 |
| 24 PLANT MASTER XTREME 501 AR | GSP | 24GSP1F-2 | HSG-14 | SGX50 | HTG-40 | TEXS85 | SB60 |
| 32 PLANT MASTER XTREME 501 AR | GSP | 32GSP1F-2 | HSG-16 | SGX75 | HTG-56 | TEXS112 | SB73 |



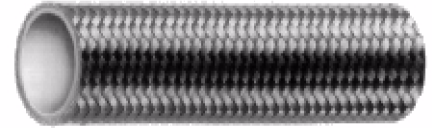
Section 1

Hydraulic Hose

AFX Teflon Hose - Smooth Bore Heavy Wall Imperial Range

Meets SAE 100R14 Working Pressure

Recommended For: Hydraulic oil lines, turbo chargers, steam, canning sealant lines, plastic/rubber moulding presses, compressor discharge, fuel lines or paint spray. For other applications contact Southcott Pty Ltd.



Tube: Teflon® (PTFE) hose core is manufactured from premier quality resin, smooth bore heavy wall. No pigments or additives are incorporated thus giving the hose liner a translucent appearance free from any contamination.

See *Hose Stock Characteristics*.

Cover/Reinforcement: Stainless steel wire braid produced from AISI 304/S15 or BS970-1 1996 quality hard drawn tensile stainless steel wire.

Temperature Range: -76°F to +500°F (-60°C to +260°C) continuous service

Warning: PTFE has a very high electrical isolation value. A damaging electrostatic charge can build up inside the hose when electrically resistive fluids/gases are being transmitted at high velocity. Review the potential for electrostatic discharge for every application. If in doubt contact your Southcott agent.

SAE 100R14 working pressures are rated for dynamic applications. Maximum working pressures will vary depending on operating temperatures and impulse frequency.

Refer www.southcott.com.au for current crimp specifications.

Hose Specifications

| Part Number | ⊖ | | | ⊘ | | Max SAE 100R14 Working Pressure | | Max Static Working Pressure | | Max Static Burst Pressure | | Ⓜ | |
|-------------|------|-----|----|------|------|---------------------------------|-----|-----------------------------|-----|---------------------------|-----|------|-----|
| | Dash | in | DN | in | mm | psi | bar | psi | bar | psi | bar | in | mm |
| AFX2004 | 4 | 1/4 | 6 | 0.38 | 9.8 | 1500 | 103 | 2500 | 172 | 10000 | 690 | 3.0 | 76 |
| AFX2006 | 6 | 3/8 | 10 | 0.49 | 12.3 | 1500 | 103 | 2000 | 138 | 8000 | 552 | 5.0 | 127 |
| AFX2008 | 8 | 1/2 | 12 | 0.62 | 15.8 | 800 | 55 | 1750 | 121 | 7000 | 483 | 5.5 | 140 |
| AFX2010 | 10 | 5/8 | 16 | 0.76 | 19.2 | 800 | 55 | 1250 | 86 | 5000 | 345 | 6.5 | 165 |
| AFX2012 | 12 | 3/4 | 19 | 0.90 | 22.9 | 800 | 55 | 1125 | 78 | 4500 | 310 | 8.0 | 203 |
| AFX2016 | 16 | 1 | 25 | 1.17 | 29.7 | 800 | 55 | 875 | 60 | 3500 | 241 | 12.0 | 305 |

Couplings and Additional Products

| Hose Type | Couplings and Ferrules | | Associated Protective Product Guide | | | | | | |
|-----------|-------------------------|---------|-------------------------------------|--------------|------------|------------|--------------------|------------|-------------------|
| | | | Wire Spring Guard | Spiral Guard | Heat Guard | Tex-Sleeve | Shrink Band Clamps | Life Guard | Life Guard Collar |
| Standard | Child | | | | | | | | |
| | 2-piece Series Coupling | Ferrule | | | | | | | |
| AFX2004 | S | FNT-04 | HSG-01 | SGX12 | HTG-09 | TEXS17 | SB19 | 14LG3K | - |
| AFX2006 | S | FNT-06 | HSG-02 | SGX12 | HTG-11 | TEXS20 | SB22 | 14LG3K | - |
| AFX2008 | S | FNT-08 | HSG-03 | SGX16 | HTG-14 | TEXS25 | SB25 | 14LG3K | - |
| AFX2010 | S | FNT-10 | HSG-05 | SGX20 | HTG-16 | TEXS31 | SB29 | 16LG3K | - |
| AFX2012 | S | FNT-12 | HSG-06 | SGX20 | HTG-20 | TEXS36 | SB34 | 20LG3K | - |
| AFX2016 | S | FNT-16 | HSG-09 | SGX32 | HTG-24 | TEXS47 | SB41 | 22LG3K | - |

Section 1 Hydraulic Hose



HeatGuard® Protective Sheathing



Meets SAE AS1072B

Description: HeatGuard is completely non-asbestos, heat-resistant protective sleeving. It goes on easily over most hose and couplings with only hose clamps or wire ties required for fastening. Nominal wall thickness - 0.135". Best of all HeatGuard can pay for itself in reduced replacement and maintenance costs.

Available in two grades: HeatGuard (HTG) and HeatGuard Hi-Temp (HTGH)



Standards: SAE AS1072B

Temperature Range:

HTG: -65°F to +500°F (-54°C to +260°C).

HTGH: -65°F to +500°F (-54°C to +260°C) (continuous), up to 2000°F (1093°C) for 15-20 minutes and up to 3000°F (1650°C) for 15-30 seconds

Refer www.southcott.com.au or Gates eCrimp database for current crimp specifications

Product Specifications

| Part Number | Sleeve ID in | Sleeve ID mm | Part Number | Sleeve ID in | Sleeve ID mm | Part Number | Sleeve ID in | Sleeve ID mm |
|-------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| HTG-04 | 0.25 | 6.35 | HTG-16 | 1.00 | 25.4 | HTG-40 | 2.50 | 63.5 |
| HTG-05 | 0.31 | 7.9 | HTG-18 | 1.12 | 28.5 | HTG-42 | 2.62 | 66.6 |
| HTG-06 | 0.38 | 9.5 | HTG-20 | 1.25 | 31.8 | HTG-44 | 2.75 | 69.9 |
| HTG-07 | 0.44 | 11.2 | HTG-22 | 1.38 | 35.0 | HTG-46 | 2.88 | 73.2 |
| HTG-08 | 0.50 | 12.7 | HTG-24 | 1.50 | 38.1 | HTG-48 | 3.00 | 76.2 |
| HTG-09 | 0.56 | 14.2 | HTG-26 | 1.62 | 41.2 | HTG-50 | 3.12 | 79.3 |
| HTG-10 | 0.62 | 15.8 | HTG-28 | 1.75 | 44.5 | HTG-52 | 3.25 | 82.6 |
| HTG-11 | 0.69 | 17.5 | HTG-30 | 1.88 | 47.8 | HTG-56 | 3.50 | 88.9 |
| HTG-12 | 0.75 | 19.0 | HTG-32 | 2.00 | 50.8 | HTG-60 | 3.75 | 95.3 |
| HTG-13 | 0.81 | 20.6 | HTG-34 | 2.12 | 53.9 | HTG-64 | 4.00 | 101.6 |
| HTG-14 | 0.88 | 22.4 | HTG-36 | 2.25 | 57.2 | | | |
| HTG-15 | 0.94 | 23.8 | HTG-38 | 2.38 | 60.5 | | | |

Couplings and Additional Products

| Hose Dash Size | C5C C5CXH C5D C5M | C5E | G1, CR1, EF1 | G2, MXT, CR1, EF1 | M3K | M2T M4K M5K M6K | EFG4K EFG5K EFG6K | EFG3K | G8K | GMV | C14 |
|----------------|-------------------------|--------|-----------------|----------------------|--------|--------------------|-------------------------|--------|--------|--------|--------|
| 4 | HTG-13 | HTG-13 | HTG-13 | HTG-14 | HTG-13 | HTG-13 | | | | | HTG-09 |
| 5 | HTG-15 | HTG-15 | | | | | | | | | HTG-11 |
| 6 | HTG-18 | HTG-18 | HTG-16 | HTG-16 | HTG-16 | HTG-16 | HTG-18 | | | | HTG-14 |
| 8 | HTG-20 | HTG-20 | HTG-18 | HTG-18 | HTG-18 | HTG-18 | HTG-20 | | | | HTG-16 |
| 10 | HTG-22 | HTG-22 | HTG-22 | HTG-22 | HTG-22 | HTG-22 | HTG-22 | | | | HTG-20 |
| 12 | HTG-22 | HTG-22 | HTG-24 | HTG-24 | HTG-24 | HTG-24 | HTG-24 | | HTG-28 | HTG-26 | HTG-24 |
| 16 | HTG-24 | HTG-24 | HTG-30 | HTG-30 | HTG-30 | HTG-30 | HTG-30 | | HTG-32 | HTG-32 | |
| 20 | HTG-26 | | HTG-36 | HTG-36 | | | HTG-38 | HTG-38 | | HTG-34 | |
| 24 | | | HTG-40 | HTG-40 | | | HTG-44 | HTG-44 | | HTG-38 | |
| 32 | | | HTG-64 | HTG-64 | | | HTG-64 | HTG-64 | | HTG-56 | |

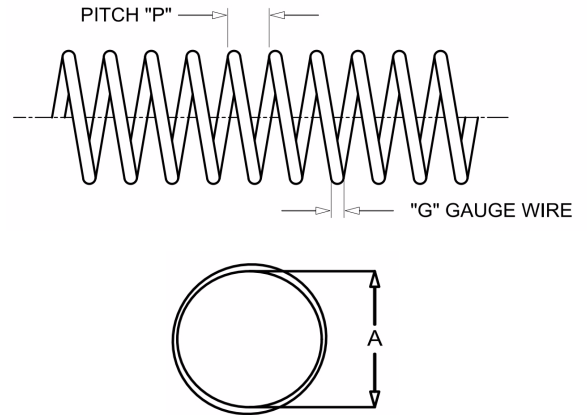


Section 1

Hydraulic Hose

HSG Wire Spring Guard Hose Protection

Description: Plated steel spiral spring guard designed to protect hose from chafing, rubbing, crushing and other hazards that may cause premature failure of hose.



Product Specifications

| Part Number | A (in) ± 0.015 | A (mm) ± 0.3 | G (in) | G (mm) | P (in) | P (mm) |
|-------------|-------------------|-----------------|-----------|--------|--------|--------|
| HSG-01 | 0.550 | 14.0 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-02 | 0.676 | 17.1 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-03 | 0.738 | 18.8 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-04 | 0.852 | 21.6 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-05 | 0.915 | 23.2 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-06 | 0.977 | 24.8 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-07 | 1.040 | 26.4 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-08 | 1.122 | 28.5 | 14 (0.08) | 2.03 | 7/32 | 5.54 |
| HSG-09 | 1.278 | 32.5 | 11 (0.12) | 3.05 | 11/32 | 8.73 |
| HSG-10 | 1.340 | 34.0 | 11 (0.12) | 3.05 | 11/32 | 8.73 |
| HSG-11 | 1.578 | 40.1 | 11 (0.12) | 3.05 | 11/32 | 8.73 |
| HSG-12 | 1.625 | 41.3 | 11 (0.12) | 3.05 | 11/32 | 8.73 |
| HSG-13 | 1.847 | 46.9 | 11 (0.12) | 3.05 | 13/32 | 10.32 |
| HSG-14 | 2.112 | 53.6 | 11 (0.12) | 3.05 | 13/32 | 10.32 |
| HSG-15 | 2.312 | 58.7 | 11 (0.12) | 3.05 | 13/32 | 10.32 |
| HSG-15A | 2.690 | 68.3 | 11 (0.12) | 3.05 | 13/32 | 10.32 |
| HSG-16 | 2.937 | 74.6 | 11 (0.12) | 3.05 | 13/32 | 10.32 |

SpiralGuard™ SGX & SGX-FRAS

SGX-FRAS Compliance to ISO 6805

Description: Flat plastic spiral wrap designed to protect or bundle hose for appearance and safety. Protects hose from chafing, rubbing, crushing and other hazards that cause hose failure. It is an easy and economical way to protect equipment, reduce downtime, improve sighting and improve overall appearance.

SGX: Standard available in black, blue, yellow and red. Other colours available on request. Minimum order quantities may apply.

SGX-FRAS: Flame retardant anti-static, compliance to ISO 6805.



Product Specifications

| Part Number | | Hose OD Range in | Hose OD Range mm | 1-Wire | 2-Wire | Multi-Spiral | Coil/Box Length m |
|-------------|------------------------------------|------------------|------------------|---------------------------------|--------|--------------|-------------------|
| Standard | FRAS (Flame Retardant Anti-Static) | | | | | | |
| SGX12 | - | 1/4 - 3/8 | 8 - 12 | -4 | -4 | - | 50 |
| SGX16 | SGX16-FRAS | 1/2 - 5/8 | 12 - 17 | -4 | -4 | - | 20 |
| SGX20 | SGX20-FRAS | 5/8 - 7/8 | 16 - 22 | -6 | -6 | -6 | 20 |
| SGX25 | SGX25-FRAS | 7/8 - 1-1/16 | 22 - 28 | -8 | -8 | -8 | 20 |
| SGX32 | SGX32-FRAS | 1-1/16 - 1-1/4 | 27 - 33 | -12 | -10 | -12 | 20 |
| SGX40 | SGX40-FRAS | 1-1/4 - 1-5/8 | 33 - 42 | -16 | -16 | -16 | 20 |
| SGX50 | SGX50-FRAS | 1-5/8 - 2-1/8 | 42 - 55 | -20 | -20 | -20 | 20 |
| SGX63 | SGX63-FRAS | 2 - 2-1/2 | 52 - 65 | -32 | -24 | -24 | 20 |
| SGX75 | SGX75-FRAS | 2-1/2 - 3-1/4 | 65 - 80 | - | -32 | -32 | 10/20 |
| SGX90 | SGX90-FRAS | 3 - 6 | 80 - 150 | Hose looms 80-150mm in diameter | | | 10/20 |
| SGX110 | SGX110-FRAS | 6+ | 150+ | Hose looms 150mm+ | | | 6/10 |
| SGX125 | SGX125-FRAS | - | - | - | | | 6 |



Section 1 Hydraulic Hose

EziSleeve Nylon Protective Sleeve

MSHA Approved

Description: EziSleeve is made from a nylon multifilament which provides excellent abrasion resistance to single or multiple hoses bundled together. EziSleeve acts as an extra protective layer, reducing down time and maintenance costs.

Temperature Range: -40°F to +257°F (-40°C to +100°C).

Abrasion Standard: ISO 6945

UV Solar Protection: BS EN 13758-1

Conductivity Requirement: ISO 8031



Product Specifications

| Part Number | Flat Width mm | Round Width ID mm | Wall Thickness mm | Pack Size m | Colour | Part Number | Flat Width mm | Round Width ID mm | Wall Thickness mm | Pack Size m | Colour |
|--------------|------------------|----------------------|----------------------|----------------|--------|---------------|------------------|----------------------|----------------------|----------------|--------|
| EziSleeve-17 | 27 | 17 | 1.0 | 50/ spool | Black | EziSleeve-44 | 69 | 44 | 1.0 | 50/ spool | Black |
| EziSleeve-20 | 31 | 20 | | | | EziSleeve-47 | 74 | 47 | | | |
| EziSleeve-23 | 36 | 23 | | | | EziSleeve-53 | 83 | 53 | | | |
| EziSleeve-25 | 39 | 25 | | | | EziSleeve-55 | 86 | 55 | | | |
| EziSleeve-27 | 42 | 27 | | | | EziSleeve-60 | 94 | 60 | | | |
| EziSleeve-31 | 49 | 31 | | | | EziSleeve-66 | 104 | 66 | | | |
| EziSleeve-33 | 52 | 33 | | | | EziSleeve-73 | 115 | 73 | | | |
| EziSleeve-36 | 54 | 36 | | | | EziSleeve-93 | 146 | 93 | | | |
| EziSleeve-40 | 63 | 40 | | | | EziSleeve-112 | 176 | 112 | | | |

Texsleeve Nylon Hose Burst Protective Sleeve

Burst Defusing Sleeve

Description: Texsleeve is a continuous nylon fibre treated with a special process to eliminate air between the fibres. This process gives the product a super compact textile wire making it far better than any other standard fibre sleeve on the market. The Depart Of Primary Industries require this type of protection for hydraulic hoses where there is potential for harm to personnel or the environment in the event of a hose failure. Texsleeve also has excellent abrasion and fire resistance capabilities making it the top of the line choice in hose protection.

Note: Texsleeve can be fitted clamped or unclamped. For best performance it is recommended that shrink-bands be used to secure the sleeve over the crimped hose ferrules.



Product Specifications

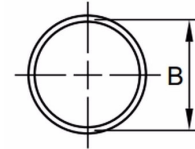
| Part Number | ID Flat mm | ID Round mm | Suits G1, G2 Dash Size with S series couplings | Part Number | ID Flat mm | ID Round mm | Suits G1, G2 Dash Size with S series couplings |
|-------------|---------------|----------------|---|-------------|---------------|----------------|---|
| TEXS17 | 27 | 17 | | TEXS47 | 74 | 47 | -16 |
| TEXS20 | 31 | 20 | -3 | TEXS53 | 83 | 53 | |
| TEXS23 | 36 | 23 | -4 | TEXS55 | 86 | 55 | |
| TEXS25 | 39 | 25 | -5 | TEXS60 | 94 | 60 | -20 |
| TEXS27 | 42 | 27 | -6 | TEXS66 | 104 | 66 | |
| TEXS31 | 49 | 31 | -8 | TEXS73 | 115 | 73 | -24 |
| TEXS33 | 52 | 33 | -10 | TEXS85 | 134 | 85 | |
| TEXS36 | 54 | 36 | | TEXS93 | 146 | 93 | -32 |
| TEXS40 | 63 | 40 | | TEXS112 | 176 | 112 | |
| TEXS44 | 69 | 44 | -12 | TEXS127 | 292 | 127 | |

Note: Suited hose type/size should be used as a guide only

Gates LifeGuard™ Sleeving

LifeGuard™ Line Of Sight Sleeve

Description: Beyond peak performance, the LifeGuard™ system offers you safety. The Line-Of-Sight Sleeving is the first true protection in line of sight hydraulic applications. Contains bursts up to 10,000psi and pinhole leaks up to 5,000psi at 250°F (121°C) for up to five minutes. The double-layer sleeve effectively shields operators against hazards such as personal injury, fluid burns and injection, fires and explosions, electrical shock and mechanical failure.



Product Specifications

| Part Number | Hose Size | | Sleeve ID - B | | Contains Hose Bursts... | Clamps To Suit | |
|-------------|-----------|------|---------------|------|--|----------------|-----------------|
| | Dash | mm | in | mm | | Aluminium | Stainless Steel |
| 14LG3K | -4 | 6.3 | 0.71 | 18.0 | Pin hole up to 3000 psi Burst up to 6000 psi | 6SC4 | 6SC4SS |
| 16LG3K | -6 | 9.5 | 0.91 | 23.1 | | 6SC4 | 6SC4SS |
| 20LG3K | -8 | 12.5 | 1.06 | 26.9 | | 8SC4 | 8SC4SS |
| 22LG3K | -10 | 15.9 | 1.26 | 32.0 | | 10SC4 | 10SC4SS |
| 26LG3K | -12 | 19.1 | 1.50 | 38.1 | | 12SC4 | 12SC4SS |
| 32LG3K | -16 | 25.4 | 1.99 | 50.6 | | 16SC4 | 16SC4SS |
| 14LG4K | -4 | 6.3 | 0.88 | 22.4 | Pin hole up to 4000 psi Burst up to 8000 psi | 6SC4 | 6SC4SS |
| 16LG4K | -6 | 9.5 | 1.03 | 26.1 | | 6SC4 | 6SC4SS |
| 20LG4K | -8 | 12.5 | 1.22 | 31.0 | | 8SC4 | 8SC4SS |
| 22LG4K | -10 | 15.9 | 1.35 | 34.3 | | 10SC4 | 10SC4SS |
| 26LG4K | -12 | 19.1 | 1.59 | 40.4 | | 12SC4 | 12SC4SS |
| 32LG4K | -16 | 25.4 | 1.99 | 50.6 | | 16SC4 | 16SC4SS |
| 14LG5K | -4 | 6.3 | 0.88 | 22.4 | Pin hole up to 5000 psi Burst up to 10000 psi | 6SC4 | 6SC4SS |
| 16LG5K | -6 | 9.5 | 1.03 | 26.1 | | 6SC4 | 6SC4SS |
| 20LG5K | -8 | 12.5 | 1.22 | 31.0 | | 8SC4 | 8SC4SS |
| 22LG5K | -10 | 15.9 | 1.35 | 34.3 | | 10SC4 | 10SC4SS |
| 26LG5K | -12 | 19.1 | 1.59 | 40.4 | | 12SC4 | 12SC4SS |
| | | | | | | 16SC4 | 16SC4SS |

PowerGrip® SB Clamps

Maintenance-Free Clamps

Description: PowerGrip® SB clamps stop leaks even on out-of-round applications. East to install with ordinary heat gun. Wider sealing area entraps connector bead. Conforms to any shape of hose and housing, even out of round fittings.

Temperature Range: -40°F to +250°F (-40°C to +121°C).



Product Specifications

| Part Number | Clamp Range mm | Part Number | Clamp Range mm | Part Number | Clamp Range mm |
|-------------|----------------|-------------|----------------|-------------|----------------|
| SB15 | 12.7 - 17.5 | SB34 | 30.2 - 38.1 | SB67 | 63.5 - 69.9 |
| SB19 | 17.5 - 20.6 | SB41 | 38.1 - 44.5 | SB73 | 69.9 - 76.2 |
| SB22 | 20.6 - 23.8 | SB48 | 44.5 - 50.8 | SB79 | 76.2 - 82.6 |
| SB25 | 23.8 - 27.0 | SB54 | 50.8 - 57.1 | SB86 | 82.6 - 88.9 |
| SB29 | 27.0 - 30.2 | SB60 | 57.1 - 63.5 | SB90 | 88.9 - 92.1 |



Section 1 Hydraulic Hose

Hose Straps and Bunch Binders

Straps - Standard and FRAS Available

Description: Suitable for holding (bunching) several hoses together or for securing hose away from potential hazards in the work environment. Straps available in standard or FRAS.

Length: Various lengths available for both standard and FRAS.



Product Specification

| Part Number | Length mm | Type | Description |
|-------------|-----------|----------|---------------------------------|
| BS001 | 400 | Standard | Hose Strap 400mm STD |
| BS002 | 800 | Standard | Hose Strap 800mm STD |
| BS003 | 1500 | Standard | Hose Strap 1500mm STD |
| BS006 | 600 | Standard | Hose Strap 600mm STD |
| AB001 | 400 | FRAS | Hose Strap 400mm FRAS |
| AB002 | 800 | FRAS | Hose Strap 800mm FRAS |
| AB003 | 1500 | FRAS | Hose Strap 1500mm FRAS |
| BUNCH-SS | N/A | FRAS | Bunch Binder in Stainless Steel |

Hose Straps

Standard and FRAS Available. MSHA approved.

Description: These straps are consist of a stainless steel buckle on a 25mm wide textile strip. Easy to assemble and can be used multiple times. Available in standard and FRAS rating. MSHA approved.

Product Specification

| Part Number | Length mm | Type | Width mm | Description |
|-------------|-----------|----------|----------|----------------------------------|
| HS001 | 400 | Standard | 25 | Hose Strap 400mm Black Standard |
| HS002 | 800 | | | Hose Strap 800mm Black Standard |
| HS003 | 1500 | | | Hose Strap 1500mm Black Standard |
| HS006 | 600 | | | Hose Strap 600mm Black Standard |
| HS800-FRAS | 800 | FRAS | | Hose Strap 800mm Black FRAS |
| HS1500-FRAS | 1500 | | | Hose Strap 1500mm Black FRAS |



TexWrap™ Textile Wrapping Sleeve

Multi hydraulic hose or electrical cable protection

Description: Resistant to oil spills, abrasion and high temperatures. Texwrap's high pressure resistant Velcro enables a tubular protection that is easy to assemble and can be fitted in situ.

Temperature: Up to 200°C

Manufactured in fibreglass and coated with silicone rubber, Texwrap functions in very critical conditions with particular regard to high temperatures.

 High Temp
200°C



Product Specification

| Part Number | OD mm | Coil Length m |
|-------------|-------|---------------|
| TEXW-75 | 75 | 50 |
| TEXW-100 | 100 | 50 |
| TEXW-150 | 150 | 50 |
| TEXW-200 | 200 | 50 |

EziWrap Nylon Protective Wrap

MSHA approved.

Description: EziWrap is made of 100% PA6 nylon textile sleeve with a polyurethane coating and a Velcro fastening system.

EziWrap can be used repeatedly and is easy to apply to single or multiple hoses.

Product Specification

| Part Number | Inside Flat W mm | Sleeve ID D mm | Colour |
|-------------|------------------|----------------|--------|
| EZIWRAP-050 | 180 | 50 | Black |
| EZIWRAP-075 | 263 | 75 | |
| EZIWRAP-100 | 357 | 100 | |
| EZIWRAP-150 | 554 | 150 | |
| EZIWRAP-200 | 711 | 200 | |





Section 1

Hydraulic Hose

HBR - Hose Bend Restrictor

Description: Flexible hose bend restrictors protect the hose near the couplings. Gates tapered PVC sleeves reduce bending stresses in the hose near the coupling to prevent damage such as in portapower and pressure wash applications. Installed during assembly the product withstands temperatures of -40°F to + 200°F (-40°C to +93°C).

Featured benefits:

Tapered design reduces bending stress near the hose coupling junction

Smooth finish will not scratch finish on equipment being washed

Wide temperature range

Friction fit means no adhesive to clamps required to hold bend restrictor in place



Product Specifications

| Part Number | ID | | Length | | Colour | Hose Size & Type |
|-------------|------|------|--------|-------|--------|-----------------------------------|
| | in | mm | in | mm | | |
| HBR-1050 | 0.63 | 16.0 | 5.50 | 139.7 | Black | 4G1, 4G1H, 4M3K, 4M2T, 4CR2, 4EF2 |
| HBR-1051 | 0.73 | 18.5 | 6.00 | 152.4 | Black | 6G1, 6G1H, 6M3K, 6M2T, 6PC I |
| HBR-1054 | 0.77 | 19.6 | 7.00 | 177.8 | Black | 6CR2, 6EF2 |
| HBR-1052 | 0.84 | 21.3 | 7.00 | 177.8 | Black | 8G1, 8G1H |
| HBR-1053 | 1.00 | 25.4 | 8.00 | 203.2 | Black | 10G1, 10G1H, 10M2T |

Section 2

Field-Attachable Couplings



Contents

| Part No..... | Description | Page |
|----------------------------------|---|------|
| FIELD-FIT COUPLINGS | | |
| To suit Gates hose types: | | |
| G1, EF1, EF2, C3H | | |
| BN1 | Body to suit G1, EF1 Hose | 2.4 |
| BN2 | Body to suit EF2 Hose | 2.4 |
| BN3 | Body to suit C3H Hose | 2.4 |
| RMB | Straight Male BSPT..... | 2.4 |
| RMP | Straight Male BSPP | 2.4 |
| RMBX | Straight Male BSPT Swivel | 2.4 |
| RMBX90C | 90° Close Male BSPT Swivel | 2.4 |
| RFB..... | Straight Female BSPP.Swivel..... | 2.4 |
| RFB45..... | 45° Tube Style Female BSPP Swivel | 2.4 |
| RFB45C..... | 45° Close Style Female BSPP Swivel..... | 2.5 |
| RFB90..... | 90° Tube Style Female BSPP Swivel | 2.5 |
| RFB90C..... | 90° Close Style Female BSPP Swivel..... | 2.5 |
| RMJ | Straight Male JIC | 2.5 |
| RFJ..... | Straight Female JIC Swivel | 2.5 |
| RFJ45..... | 45° Tube Style Female JIC Swivel | 2.5 |
| RFJ45C | 45° Close Style Female JIC Swivel | 2.5 |
| RFJ90..... | 90° Tube Style Female JIC Swivel | 2.5 |
| RFJ90L..... | 90° Long Drop Tube Style Female JIC Swivel..... | 2.6 |
| RFJ90C | 90° Close Style Female JIC Swivel | 2.6 |
| RFFO | Straight Female Swivel O-Ring Flat Face | 2.6 |
| RFFO90 | 90° Female Swivel O-Ring Flat Face | 2.6 |
| RMN..... | Straight Male NPTF | 2.6 |
| RFN | Straight Female NPTF..... | 2.6 |
| RMIX90 | 90° Tube Style Male SAE Inverted Flare..... | 2.6 |
| RMO..... | Straight Male UNO | 2.6 |
| RMOX..... | Straight Male UNO Swivel..... | 2.6 |
| RMOX90C | 90° Close Male UNO Swivel | 2.6 |
| RFL | Straight SAE 'O' Ring Flange (Code 61) | 2.7 |
| RFL45 | 45° SAE 'O' Ring Flange (Code 61) | 2.7 |
| RFL90 | 90° SAE 'O' Ring Flange (Code 61) | 2.7 |
| RMS | Straight Male SAE..... | 2.7 |
| RFS | Straight Female SAE.Swivel..... | 2.7 |
| RFS45C..... | 45° Close Style Female SAE Swivel..... | 2.7 |
| RFS90 | 90° Tube Style Female SAE Swivel | 2.7 |
| RFS90C..... | 90° Close Style Female SAE Swivel..... | 2.7 |
| RLS | Lifesaver | 2.7 |
| RHJ | Hose Joiner | 2.7 |

Contents

Part No. Description..... Page

FIELD-FIT/C5/C5X COUPLINGS

To suit Gates hose types:

C5C, C5CXH, C5D & C5M

| | | |
|----------------------|---|-----|
| 5MB | Straight Male BSPT | 2.8 |
| C5/C5X-RMP | Straight Male NPTF | 2.8 |
| C5/C5X-RFJX | Straight Female JIC Swivel | 2.8 |
| C5/C5X-RFJX45 | 45° Tube Style Female JIC Swivel | 2.8 |
| C5/C5X-RFJX90 | 90° Tube Style Female JIC Swivel | 2.8 |
| C5/C5X-RFJSX | Straight Female JIC/SAE (Dual Cone Seat) Swivel | 2.8 |
| C5/C5X-RFJSX45 | 45° Tube Style Female JIC/SAE (Dual Cone Seat) Swivel | 2.8 |
| C5/C5X-RFJSX90 | 90° Tube Style Female JIC/SAE (Dual Cone Seat) Swivel | 2.8 |
| C5/C5X-RFSX | Straight Female SAE Swivel | 2.9 |
| C5/C5X-RFSX45 | 45° Tube Style Female SAE Swivel | 2.9 |
| C5/C5X-RFSX90 | 90° Tube Style Female SAE Swivel | 2.9 |

FIELD-FIT/C5E COUPLINGS

To suit Gates hose types:

C5E - SAE J1402 Type E.A1.(Air brake) SAE J1019 High Temp

| | | |
|-------------------|---|------|
| C5E-RMP | Straight Male NPTF | 2.10 |
| C5E-RFJX | Straight Female JIC Swivel | 2.10 |
| C5E-RFJX45 | 45° Tube Style Female JIC Swivel | 2.10 |
| C5E-RFJX90 | 90° Tube Style Female JIC Swivel | 2.10 |
| C5E-RFJSX | Straight Female JIC/SAE (Dual Cone Seat) Swivel | 2.10 |
| C5E-RFJSX45 | 45° Tube Style Female JIC/SAE (Dual Cone Seat) Swivel | 2.10 |
| C5E-RFJSX90 | 90° Tube Style Female JIC/SAE (Dual Cone Seat) Swivel | 2.10 |
| C5E-RFSX | Straight Female SAE Swivel | 2.11 |
| C5E-RFSX45 | 45° Tube Style Female SAE Swivel | 2.11 |
| C5E-RFSX90 | 90° Tube Style Female SAE Swivel | 2.11 |
| C5E-RMIX | Straight Male SAE Inverted Flare | 2.11 |
| C5E-RMIX45 | 45° Male SAE Inverted Flare | 2.11 |
| C5E-RMIX90 | 90° Male SAE Inverted Flare | 2.11 |

LOCK-ON COUPLINGS

| | | |
|--------------|---|------|
| LMB | Straight Male BSPT | 2.12 |
| LFB | Straight Female BSPP Swivel | 2.12 |
| LFB90C | 90° Close Style Female BSPP Swivel | 2.12 |
| LMN | Straight Male NPTF | 2.12 |
| LMJ | Straight Male JIC | 2.12 |
| LMS | Straight Male SAE | 2.12 |
| LFJ | Straight Female JIC Swivel | 2.12 |
| LFJS | Straight Female JIC/SAE (Dual Cone Seat) Swivel | 2.12 |
| LFJ90 | 90° Tube Style Female JIC Swivel | 2.13 |
| LFJ90C | 90° Close Style Female JIC Swivel | 2.13 |
| LFS | Straight Female SAE Swivel | 2.13 |
| LMIX | Straight Male SAE Inverted Flare | 2.13 |
| LSP | Straight Stand Pipe | 2.13 |
| LHJ | Straight Hose Joiner | 2.13 |

Section 2

Field-Attachable Couplings



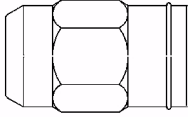
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| Part No..... | Description | Page |
|---|--|------|
| CLAMP-ON COUPLINGS (BEADED TAIL) | | |
| CB4..... | Hosetail Male/Male BSPT x LP | 2.14 |
| CP4..... | Hosetail Male/Male BSPP x LP | 2.14 |
| CM4 | Hosetail Male/Male Metric x LP | 2.14 |
| CN4 | Hosetail Male/Male NPTF x LP..... | 2.14 |
| C5..... | Hosetail Male/Male UNO x LP | 2.14 |
| CB5..... | Hosetail Female/Male BSPT x LP..... | 2.15 |
| C41..... | Hosetail 45° Elbow Male/Male UNO x LP | 2.15 |
| CB41..... | Hosetail 45° Elbow Male/Male BSPT x LP | 2.15 |
| CN41 | Hosetail 45° Elbow Male/Male NPTF x LP..... | 2.15 |
| C60..... | Hosetail 90° Elbow Male/Male UNO x LP | 2.15 |
| CB60..... | Hosetail 90° Elbow Male/Male BSPT x LP | 2.15 |
| CP60..... | Hosetail 90° Elbow Male/Male BSPP x LP | 2.16 |
| CN60 | Hosetail 90° Elbow Male/Male NPTF x LP..... | 2.16 |

Section 2

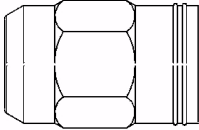
Field-Attachable Couplings

Body One Wire Braid G1, EF1 Non-Skive



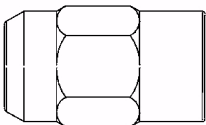
| P/Number | Hose |
|----------------|------|
| BN1-04..... | 1/4 |
| BN1-06..... | 3/8 |
| BN1-08..... | 1/2 |
| BN1-12..... | 3/4 |
| BN1-16..... | 1 |

Body Two Wire Braid EF2 Non-Skive



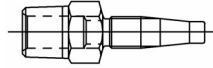
| P/Number | Hose |
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| BN2-04..... | 1/4 |
| BN2-06..... | 3/8 |
| BN2-08..... | 1/2 |
| BN2-10..... | 5/8 |
| BN2-12..... | 3/4 |
| BN2-16..... | 1 |

Body Two Textile Braid G3H Non-Skive



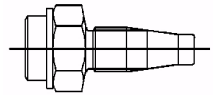
| P/Number | Hose |
|----------------|------|
| BN3-04..... | 1/4 |
| BN3-06..... | 3/8 |
| BN3-08..... | 1/2 |
| BN3-12..... | 3/4 |

Straight Male BSPT G1, EF1, EF2, C3H



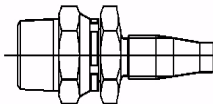
| P/Number | Thread | Hose |
|-----------------|--------------|------|
| RMB-0204..... | 1/8 | 1/4 |
| RMB-0404..... | 1/4 | 1/4 |
| RMB-0406..... | 1/4 | 3/8 |
| RMB-0604..... | 3/8 | 1/4 |
| RMB-0606..... | 3/8 | 3/8 |
| RMB-0608..... | 3/8 | 1/2 |
| RMB-0806..... | 1/2 | 3/8 |
| RMB-0808..... | 1/2 | 1/2 |
| * RMB-0810..... | 1/2 | 5/8 |
| RMB-0812..... | 1/2 | 3/4 |
| RMB-1008..... | 5/8 | 1/2 |
| RMB-1208..... | 3/4 | 1/2 |
| RMB-1212..... | 3/4 | 3/4 |
| RMB-1612..... | 1..... | 3/4 |
| RMB-1616..... | 1..... | 1 |

Straight Male BSPP G1, EF1, EF2, C3H



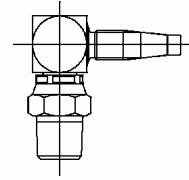
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|-----------------|--------------|------|
| * RMP-0606..... | 3/8 | 3/8 |
| RMP-0806..... | 1/2 | 3/8 |
| RMP-0808..... | 1/2 | 1/2 |

Straight Male BSPT Swivel G1, EF1, EF2, C3H



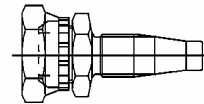
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|------------------|--------------|------|
| RMBX-0606..... | 3/8 | 3/8 |
| * RMBX-0608..... | 3/8 | 1/2 |
| RMBX-0806..... | 1/2 | 3/8 |
| RMBX-0808..... | 1/2 | 1/2 |
| RMBX-1208..... | 3/4 | 1/2 |
| RMBX-1212..... | 3/4 | 3/4 |

90 Close Male BSPT Swivel G1, EF1, EF2, C3H



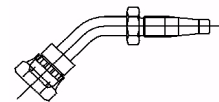
| P/Number | Thread | Hose |
|---------------------|--------------|------|
| * RMBX90C-0606..... | 3/8 | 3/8 |
| * RMBX90C-0608..... | 3/8 | 1/2 |
| RMBX90C-0806..... | 1/2 | 3/8 |
| RMBX90C-0808..... | 1/2 | 1/2 |
| * RMBX90C-1212..... | 3/4 | 3/4 |

Straight Female BSPP Swivel G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|----------------|--------------|------|
| RFB-0204..... | 1/8 | 1/4 |
| RFB-0404..... | 1/4 | 1/4 |
| RFB-0406..... | 1/4 | 3/8 |
| RFB-0604..... | 3/8 | 1/4 |
| RFB-0606..... | 3/8 | 3/8 |
| RFB-0608..... | 3/8 | 1/2 |
| RFB-0806..... | 1/2 | 3/8 |
| RFB-0808..... | 1/2 | 1/2 |
| RFB-1008..... | 5/8 | 1/2 |
| RFB-1208..... | 3/4 | 1/2 |
| RFB-1212..... | 3/4 | 3/4 |
| RFB-1612..... | 1..... | 3/4 |
| RFB-1616..... | 1..... | 1 |

45° Tube Female BSPP Swivel G1, EF1, EF2, C3H



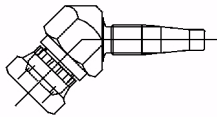
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|-------------------|--------------|------|
| RFB45-0404..... | 1/4 | 1/4 |
| RFB45-0606..... | 3/8 | 3/8 |
| * RFB45-0806..... | 1/2 | 3/8 |
| RFB45-0808..... | 1/2 | 1/2 |
| RFB45-1212..... | 3/4 | 3/4 |
| RFB45-1616..... | 1..... | 1 |

Section 2

Field-Attachable Couplings

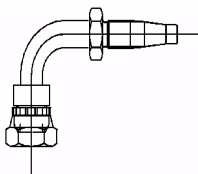


45° Close Female BSPP Swivel G1, EF1, EF2, C3H



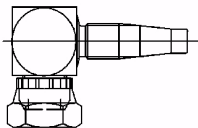
| P/Number | Thread | Hose |
|-------------|--------|------|
| RFB45C-0404 | 1/4 | 1/4 |
| RFB45C-0606 | 3/8 | 3/8 |
| RFB45C-0806 | 1/2 | 3/8 |
| RFB45C-0808 | 1/2 | 1/2 |
| RFB45C-1212 | 3/4 | 3/4 |
| RFB45C-1616 | 1 | 1 |

90° Tube Female BSPP Swivel G1, EF1, EF2, C3H



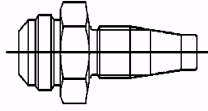
| P/Number | Thread | Hose |
|------------|--------|------|
| RFB90-0404 | 1/4 | 1/4 |
| RFB90-0606 | 3/8 | 3/8 |
| RFB90-0806 | 1/2 | 3/8 |
| RFB90-0808 | 1/2 | 1/2 |
| RFB90-1212 | 3/4 | 3/4 |
| RFB90-1616 | 1 | 1 |

90° Close Female BSPP Swivel G1, EF1, EF2, C3H



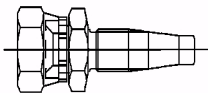
| P/Number | Thread | Hose |
|---------------|--------|------|
| * RFB90C-0204 | 1/8 | 1/4 |
| RFB90C-0404 | 1/4 | 1/4 |
| RFB90C-0406 | 1/4 | 3/8 |
| RFB90C-0604 | 3/8 | 1/4 |
| RFB90C-0606 | 3/8 | 3/8 |
| RFB90C-0608 | 3/8 | 1/2 |
| RFB90C-0806 | 1/2 | 3/8 |
| RFB90C-0808 | 1/2 | 1/2 |
| RFB90C-1208 | 3/4 | 1/2 |
| RFB90C-1212 | 3/4 | 3/4 |
| RFB90C-1616 | 1 | 1 |

Straight Male JIC G1, EF1, EF2, C3H



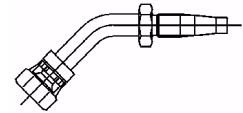
| P/Number | Thread | Hose |
|----------|--------|------|
| RMJ-0704 | 7/16 | 1/4 |
| RMJ-0804 | 1/2 | 1/4 |
| RMJ-0904 | 9/16 | 1/4 |
| RMJ-0906 | 9/16 | 3/8 |
| RMJ-0908 | 9/16 | 1/2 |
| RMJ-1206 | 3/4 | 3/8 |
| RMJ-1208 | 3/4 | 1/2 |
| RMJ-1406 | 7/8 | 3/8 |
| RMJ-1408 | 7/8 | 1/2 |
| RMJ-1410 | 7/8 | 5/8 |
| RMJ-1412 | 7/8 | 3/4 |
| RMJ-1708 | 1-1/16 | 1/2 |
| RMJ-1710 | 1-1/16 | 5/8 |
| RMJ-1712 | 1-1/16 | 3/4 |
| RMJ-1912 | 1-3/16 | 3/4 |
| RMJ-2116 | 1-5/16 | 1 |

Straight Female JIC Swivel G1, EF1, EF2, C3H



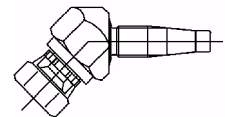
| P/Number | Thread | Hose |
|----------|--------|------|
| RFJ-0704 | 7/16 | 1/4 |
| RFJ-0804 | 1/2 | 1/4 |
| RFJ-0904 | 9/16 | 1/4 |
| RFJ-0906 | 9/16 | 3/8 |
| RFJ-0908 | 9/16 | 1/2 |
| RFJ-1206 | 3/4 | 3/8 |
| RFJ-1208 | 3/4 | 1/2 |
| RFJ-1406 | 7/8 | 3/8 |
| RFJ-1408 | 7/8 | 1/2 |
| RFJ-1410 | 7/8 | 5/8 |
| RFJ-1412 | 7/8 | 3/4 |
| RFJ-1708 | 1-1/16 | 1/2 |
| RFJ-1710 | 1-1/16 | 5/8 |
| RFJ-1712 | 1-1/16 | 3/4 |
| RFJ-1716 | 1-1/16 | 1 |
| RFJ-1912 | 1-3/16 | 3/4 |
| RFJ-2112 | 1-5/16 | 3/4 |
| RFJ-2116 | 1-5/16 | 1 |

45° Female JIC Swivel G1, EF1, EF2, C3H



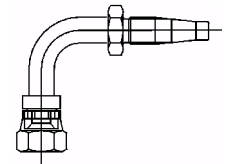
| P/Number | Thread | Hose |
|------------|--------|------|
| RFJ45-0704 | 7/16 | 1/4 |
| RFJ45-0804 | 1/2 | 1/4 |
| RFJ45-0904 | 9/16 | 1/4 |
| RFJ45-0906 | 9/16 | 3/8 |
| RFJ45-1206 | 3/4 | 3/8 |
| RFJ45-1208 | 3/4 | 1/2 |
| RFJ45-1408 | 7/8 | 1/2 |
| RFJ45-1712 | 1-1/16 | 3/4 |
| RFJ45-2116 | 1-5/16 | 1 |

45° Close Female JIC Swivel G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|---------------|--------|------|
| RFJ45C-0704 | 7/16 | 1/4 |
| RFJ45C-0804 | 1/2 | 1/4 |
| RFJ45C-0904 | 9/16 | 1/4 |
| RFJ45C-0906 | 9/16 | 3/8 |
| RFJ45C-1206 | 3/4 | 3/8 |
| RFJ45C-1208 | 3/4 | 1/2 |
| RFJ45C-1408 | 7/8 | 1/2 |
| RFJ45C-1712 | 1-1/16 | 3/4 |
| * RFJ45C-2116 | 1-5/16 | 1 |

90° Tube Female JIC Swivel G1, EF1, EF2, C3H

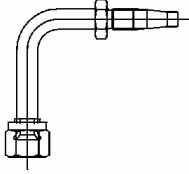


| P/Number | Thread | Hose |
|------------|--------|------|
| RFJ90-0704 | 7/16 | 1/4 |
| RFJ90-0804 | 1/2 | 1/4 |
| RFJ90-0904 | 9/16 | 1/4 |
| RFJ90-0906 | 9/16 | 3/8 |
| RFJ90-1206 | 3/4 | 3/8 |
| RFJ90-1208 | 3/4 | 1/2 |
| RFJ90-1408 | 7/8 | 1/2 |
| RFJ90-1410 | 7/8 | 5/8 |
| RFJ90-1708 | 1-1/16 | 1/2 |
| RFJ90-1710 | 1-1/16 | 5/8 |
| RFJ90-1712 | 1-1/16 | 3/4 |
| RFJ90-2116 | 1-5/16 | 1 |

Section 2

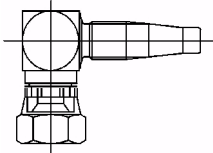
Field-Attachable Couplings

90° Female JIC Long Drop Swivel G1, EF1, EF2, C3H



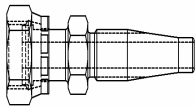
| P/Number | Thread | Hose |
|-------------|--------|------|
| RFJ90L-0704 | 7/16 | 1/4 |
| RFJ90L-0904 | 9/16 | 1/4 |
| RFJ90L-0906 | 9/16 | 3/8 |
| RFJ90L-1206 | 3/4 | 3/8 |
| RFJ90L-1208 | 3/4 | 1/2 |
| RFJ90L-1408 | 7/8 | 1/2 |
| RFJ90L-1712 | 1-1/16 | 3/4 |
| RFJ90L-2116 | 1-1/16 | 3/4 |

90° Close Female JIC Swivel G1, EF1, EF2, C3H



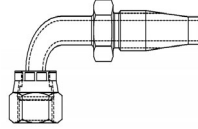
| P/Number | Thread | Hose |
|-------------|--------|------|
| RFJ90C-0704 | 7/16 | 1/4 |
| RFJ90C-0804 | 1/2 | 1/4 |
| RFJ90C-0904 | 9/16 | 1/4 |
| RFJ90C-0906 | 9/16 | 3/8 |
| RFJ90C-0908 | 9/16 | 1/2 |
| RFJ90C-1206 | 3/4 | 3/8 |
| RFJ90C-1208 | 3/4 | 1/2 |
| RFJ90C-1408 | 7/8 | 1/2 |
| RFJ90C-1708 | 7/8 | 1/2 |
| RFJ90C-1712 | 1-1/16 | 3/4 |
| RFJ90C-2116 | 1-5/16 | 1 |

Straight Female Swivel Flat Faced O-Ring (ORFS) G1, EF1, EF2, C3H



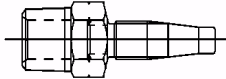
| P/Number | Thread | Hose |
|-----------|--------|------|
| RFFO-0904 | 9/16 | 1/4 |
| RFFO-1104 | 11/16 | 1/4 |
| RFFO-1106 | 11/16 | 3/8 |
| RFFO-1308 | 13/16 | 1/2 |
| RFFO-1608 | 1 | 1/2 |

90° Female Swivel Flat Faced O-Ring (ORFS) G1, EF1, EF2, C3H



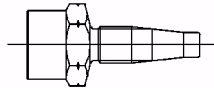
| P/Number | Thread | Hose |
|-------------|--------|------|
| RFFO90-0904 | 9/16 | 1/4 |
| RFFO90-1104 | 11/16 | 1/4 |
| RFFO90-1106 | 11/16 | 3/8 |
| RFFO90-1308 | 13/16 | 1/2 |
| RFFO90-1608 | 1 | 1/2 |

Straight Male NPTF G1, EF1, EF2, C3H



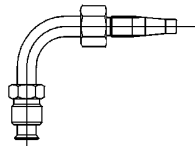
| P/Number | Thread | Hose |
|------------|--------|------|
| RMN-0404 | 1/4 | 1/4 |
| RMN-0406 | 1/4 | 3/8 |
| RMN-0604 | 3/8 | 1/4 |
| RMN-0606 | 3/8 | 3/8 |
| RMN-0808 | 1/2 | 1/2 |
| RMN-1208 | 3/4 | 1/2 |
| * RMN-1212 | 3/4 | 3/4 |
| * RMN-1616 | 1 | 1 |

Straight Female NPTF G1, EF1, EF2, C3H



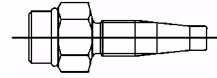
| P/Number | Thread | Hose |
|----------|--------|------|
| RFN-0404 | 1/4 | 1/4 |
| RFN-0406 | 1/4 | 3/8 |
| RFN-0808 | 1/2 | 1/2 |

90° Tube Male SAE Inverted Flare G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|-------------|--------|------|
| RMIX90-0804 | 1/2 | 1/4 |

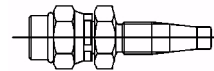
Straight Male UNO G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|------------|--------|------|
| RMO-1206 | 3/4 | 3/8 |
| RMO-1208 | 3/4 | 1/2 |
| * RMO-1406 | 7/8 | 3/8 |
| RMO-1408 | 7/8 | 1/2 |
| RMO-2112 | 1-5/16 | 3/4 |
| RMO-2116 | 1-5/16 | 1 |

90 Duro O Ring supplied

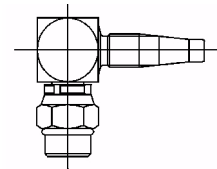
Straight Male UNO (Swivel) G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|-------------|--------|------|
| RMOX-1206 | 3/4 | 3/8 |
| * RMOX-1208 | 3/4 | 1/2 |
| RMOX-1406 | 7/8 | 3/8 |
| RMOX-1408 | 7/8 | 1/2 |
| * RMOX-1708 | 1-1/16 | 1/2 |
| * RMOX-1712 | 1-1/16 | 3/4 |
| RMOX-2116 | 1-5/16 | 1 |

90 Duro O Ring supplied

90° Close Male UNO (Swivel) G1, EF1, EF2, C3H



| P/Number | Thread | Hose |
|----------------|--------|------|
| RMOX90C-1206 | 3/4 | 3/8 |
| RMOX90C-1208 | 3/4 | 1/2 |
| * RMOX90C-1406 | 7/8 | 3/8 |
| RMOX90C-1408 | 7/8 | 1/2 |
| RMOX90C-1712 | 1-1/16 | 3/4 |

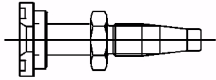
90 Duro O Ring supplied

Section 2

Field-Attachable Couplings



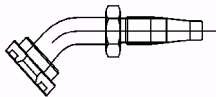
Straight SAE 'O' Ring Flange G1, EF1, EF2, C3H Code 61



| | | |
|------------------|--------------|------------|
| P/Number | Flange | Hose |
| RFL-1212 | 3/4 | 3/4 |
| * RFL-1612 | 1 | 3/4 |
| * RFL-1616 | 1 | 1 |
| * RFL-2416 | 1-1/2 | 1 |

90 Duro O Ring supplied

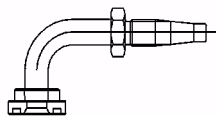
45° SAE 'O' Ring Flange G1, EF1, EF2, C3H Code 61



| | | |
|--------------------|--------------|------------|
| P/Number | Flange | Hose |
| * RFL45-1612 | 1 | 3/4 |
| * RFL45-2012 | 1-1/4 | 3/4 |
| * RFL45-2016 | 1-1/4 | 1 |

90 Duro O Ring supplied

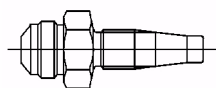
90° SAE 'O' Ring Flange G1, EF1, EF2, C3H Code 61



| | | |
|------------------|--------------|------------|
| P/Number | Flange | Hose |
| RFL90-1212 | 3/4 | 3/4 |

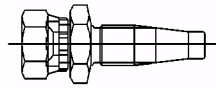
90 Duro O Ring supplied

Straight Male SAE G1, EF1, EF2, C3H



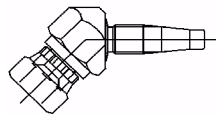
| | | |
|------------------|--------------|------------|
| P/Number | Thread | Hose |
| RMS-0804 | 1/2 | 1/4 |
| * RMS-1006 | 5/8 | 3/8 |
| RMS-1206 | 3/4 | 3/8 |

Straight Female SAE Swivel G1, EF1, EF2, C3H



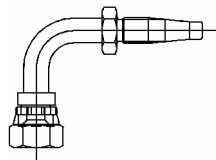
| | | |
|----------------|--------------|------------|
| P/Number | Thread | Hose |
| RFS-0704 | 7/16 | 1/4 |
| RFS-0806 | 1/2 | 3/8 |
| RFS-1006 | 5/8 | 3/8 |
| RFS-1206 | 3/4 | 3/8 |

45° Close Female SAE Swivel G1, EF1, EF2, C3H



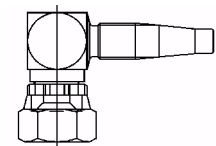
| | | |
|-------------------|--------------|------------|
| P/Number | Thread | Hose |
| RFS45C-1006 | 5/8 | 3/8 |

90° Tube Female SAE Swivel G1, EF1, EF2, C3H



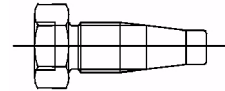
| | | |
|--------------------|--------------|------------|
| P/Number | Thread | Hose |
| * RFS90-1006 | 5/8 | 3/8 |

90° Close Female SAE Swivel G1, EF1, EF2, C3H



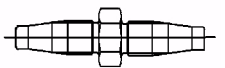
| | | |
|---------------------|--------------|------------|
| P/Number | Thread | Hose |
| * RFS90C-0704 | 7/16 | 1/4 |
| RFS90C-1006 | 5/8 | 3/8 |
| RFS90C-1206 | 3/4 | 3/8 |

Lifesaver G1, EF1, EF2, C3H



| | | |
|------------------|------------|------------|
| P/Number | Tube | Hose |
| RLS-0404 | 1/4 | 1/4 |
| * RLS-0604 | 3/8 | 1/4 |
| RLS-0606 | 3/8 | 3/8 |
| * RLS-0806 | 1/2 | 3/8 |
| RLS-0808 | 1/2 | 1/2 |
| * RLS-1008 | 5/8 | 1/2 |
| RLS-1212 | 3/4 | 3/4 |
| RLS-1616 | 1 | 1 |

Hose Joiner G1, EF1, EF2, C3H



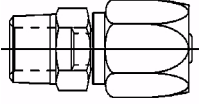
| | |
|----------------|------------|
| P/Number | Hose |
| RHJ-04 | 1/4 |
| RHJ-06 | 3/8 |
| RHJ-08 | 1/2 |
| RHJ-12 | 3/4 |
| * RHJ-16 | 1 |



Section 2

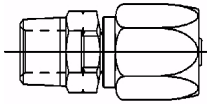
Field-Fit / C5 Couplings

Straight Male BSPT C5C, C5CXH, C5D & C5M



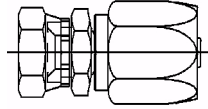
| P/Number | Thread | Hose |
|----------|--------|------|
| 5MB-0204 | 1/8 | 3/16 |
| 5MB-0404 | 1/4 | 3/16 |

Straight Male NPTF C5C, C5CXH, C5D & C5M



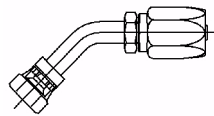
| P/Number | Thread | Hose |
|-------------|--------|---------|
| 4C5-2RMP | 1/8 | 3/16 |
| 4C5-4RMP | 1/4 | 3/16 |
| 6C5-4RMP | 1/4 | 5/16 |
| 6C5-6RMP | 3/8 | 5/16 |
| 8C5X-8RMP | 1/2 | 13/32 |
| 10C5-8RMP | 1/2 | 1/2 |
| 12C5X-12RMP | 3/4 | 5/8 |
| 16C5-12RMP | 3/4 | 7/8 |
| 16C5-16RMP | 1 | 7/8 |
| 20C5-20RMP | 1-1/4 | 1-1/8 |
| 32C5-32RMP | 2 | 1-13/16 |

Straight Female JIC Swivel C5C, C5CXH, C5D & C5M



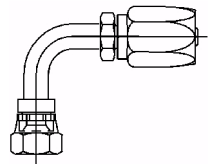
| P/Number | Thread | Hose |
|--------------|--------|---------|
| 6C5-6RFJX | 9/16 | 5/16 |
| 8C5X-6RFJX | 9/16 | 13/32 |
| 10C5-12RFJX | 1-1/16 | 1/2 |
| 12C5X-12RFJX | 1-1/16 | 5/8 |
| 16C5-16RFJX | 1-5/16 | 7/8 |
| 20C5-20RFJX | 1-5/8 | 1-1/8 |
| 24C5-24RFJX | 1-7/8 | 1-3/8 |
| 32C5-32RFJX | 2-1/2 | 1-13/16 |

45° Tube Female JIC Swivel C5C, C5CXH, C5D & C5M



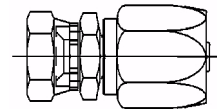
| P/Number | Thread | Hose |
|-----------------|--------|------|
| 6C5-6RFJX45 | 9/16 | 5/16 |
| 12C5X-12RFJX45S | 1-1/16 | 5/8 |
| 16C5-16RFJX45 | 1-5/16 | 7/8 |

90° Tube Female JIC Swivel C5C, C5CXH, C5D & C5M



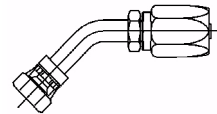
| P/Number | Thread | Hose |
|-----------------|--------|------|
| 6C5-6RFJX90 | 9/16 | 5/16 |
| 6C5-6RFJX90L | 9/16 | 5/16 |
| 12C5X-12RFJX90L | 1-1/16 | 5/8 |
| 12C5X-12RFJX90S | 1-1/16 | 5/8 |
| 16C5-16RFJX90 | 1-5/16 | 7/8 |

Straight Female JIC/SAE Dual Seat Swivel C5C, C5CXH, C5D & C5M



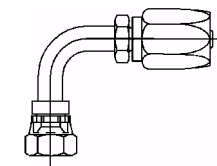
| P/Number | Thread | Hose |
|--------------|--------|-------|
| 4C5-4RFJSX | 7/16 | 3/16 |
| 5C5X-4RFJSX | 7/16 | 1/4 |
| 5C5X-5RFJSX | 1/2 | 1/4 |
| 6C5-8RFJSX | 3/4 | 5/16 |
| 8C5X-8RFJSX | 3/4 | 13/32 |
| 10C5-8RFJSX | 3/4 | 1/2 |
| 10C5-10RFJSX | 7/8 | 1/2 |

45° Tube Female JIC/SAE Dual Seat Swivel C5C, C5CXH, C5D & C5M



| P/Number | Thread | Hose |
|----------------|--------|-------|
| 4C5-4RFJSX45 | 7/16 | 3/16 |
| 5C5X-5RFJSX45S | 1/2 | 1/4 |
| 8C5X-8RFJSX45S | 3/4 | 13/32 |
| 10C5-10RFJSX45 | 7/8 | 1/2 |

90° Tube Female JIC/SAE Dual Seat Swivel C5C, C5CXH, C5D & C5M



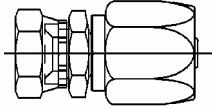
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4C5-4RFJSX90 | 7/16 | 3/16 |
| 5C5X-5RFJSX90L | 1/2 | 1/4 |
| 5C5X-5RFJSX90S | 1/2 | 1/4 |
| 8C5X-8RFJSX90L | 3/4 | 13/32 |
| 8C5X-8RFJSX90S | 3/4 | 13/32 |
| 10C5-10RFJSX90 | 7/8 | 1/2 |
| 10C5-10RFJSX90L | 7/8 | 1/2 |

Section 2

Field-Fit / C5 Couplings

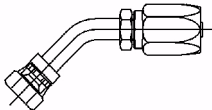


Straight Female SAE Swivel C5C, C5CXH, C5D & C5M



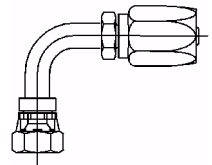
| P/Number | Thread | Hose |
|-------------------|--------------|------------|
| 6C5-6RFSX..... | 5/8 | 5/16 |
| 10C5-12RFSX..... | 1-1/16..... | 1/2 |
| 12C5X-12RFSX..... | 1-1/16..... | 5/8 |

45° Tube Female SAE Swivel C5C, C5CXH, C5D & C5M



| P/Number | Thread | Hose |
|----------------------|--------------|------------|
| 6C5-6RFSX45..... | 5/8 | 5/16 |
| 12C5X-12RFSX45S..... | 1-1/16..... | 5/8 |

90° Tube Female SAE Swivel C5C, C5CXH, C5D & C5M



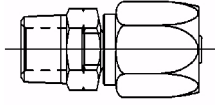
| P/Number | Thread | Hose |
|----------------------|--------------|------------|
| 6C5-6RFSX90..... | 5/8 | 5/16 |
| 12C5X-12RFSX90L..... | 1-1/16..... | 5/8 |
| 12C5X-12RFSX90S..... | 1-1/16..... | 5/8 |



Section 2

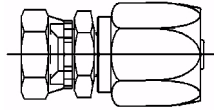
Field-Fit / C5E Couplings

Straight Male NPTF C5E



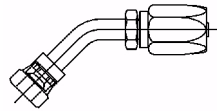
| P/Number | Thread | Hose |
|-------------|--------|-------|
| 4C5E-2RMP | 1/8 | 3/16 |
| 4C5E-4RMP | 1/4 | 3/16 |
| 5C5E-4RMP | 1/4 | 1/4 |
| 6C5E-6RMP | 3/8 | 5/16 |
| 8C5E-8RMP | 1/2 | 13/32 |
| 10C5E-8RMP | 1/2 | 1/2 |
| 12C5E-12RMP | 3/4 | 5/8 |
| 12C5E-16RMP | 1 | 5/8 |
| 16C5E-12RMP | 3/4 | 7/8 |
| 16C5E-16RMP | 1 | 7/8 |

Straight Female JIC Swivel C5E



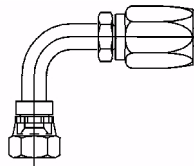
| P/Number | Thread | Hose |
|--------------|--------|------|
| 6C5E-6RFJX | 9/16 | 5/16 |
| 12C5E-12RFJX | 1-1/16 | 5/8 |
| 16C5E-16RFJX | 1-5/16 | 7/8 |

45° Tube Female JIC Swivel C5E



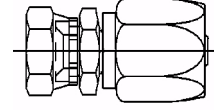
| P/Number | Thread | Hose |
|------------------|--------|------|
| * 6C5E-6RFJX45 | 9/16 | 5/16 |
| * 12C5E-12RFJX45 | 1-1/16 | 5/8 |

90° Tube Female JIC Swivel C5E



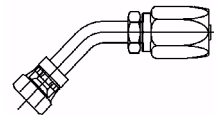
| P/Number | Thread | Hose |
|----------------|--------|------|
| 6C5E-6RFJX90 | 9/16 | 5/16 |
| 12C5E-12RFJX90 | 1-1/16 | 5/8 |
| 16C5E-16RFJX90 | 1-5/16 | 7/8 |

Straight Female JIC/SAE Dual Seat Swivel C5E



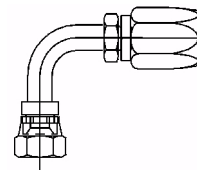
| P/Number | Thread | Hose |
|---------------|--------|-------|
| 4C5E-4RFJSX | 7/16 | 3/16 |
| 5C5E-5RFJSX | 1/2 | 1/4 |
| 8C5E-8RFJSX | 3/4 | 13/32 |
| 10C5E-10RFJSX | 7/8 | 1/2 |

45° Tube Female JIC/SAE Dual Seat Swivel C5E



| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4C5E-4RFJSX45 | 7/16 | 3/16 |
| 8C5E-8RFJSX45 | 3/4 | 13/32 |
| 10C5E-10RFJSX45 | 7/8 | 1/2 |

90° Tube Female JIC/SAE Dual Seat Swivel C5E



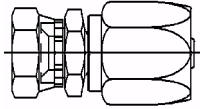
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4C5E-4RFJSX90 | 7/16 | 3/16 |
| 8C5E-8RFJSX90 | 3/4 | 13/32 |
| 10C5E-10RFJSX90 | 7/8 | 1/2 |

Section 2

Field-Fit / C5E Couplings

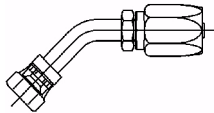


Straight Female SAE Swivel C5E



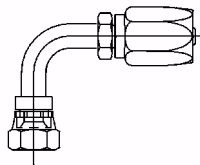
| P/Number | Thread | Hose |
|--------------------|--------------|------------|
| 6C5E-6RFSX | 5/8 | 5/16 |
| 12C5E-12RFSX | 1-1/16 | 5/8 |

45° Tube Female SAE Swivel C5E



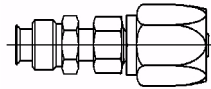
| P/Number | Thread | Hose |
|--------------------|--------------|------------|
| 6C5E-6RFSX45 | 5/8 | 5/16 |

90° Tube Female SAE Swivel C5E



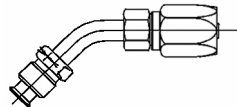
| P/Number | Thread | Hose |
|----------------------|--------------|------------|
| 6C5E-6RFSX90 | 5/8 | 5/16 |
| 12C5E-12RFSX90 | 1-1/16 | 5/8 |

Straight Male SAE Inverted Flare C5E



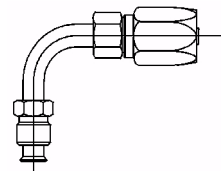
| P/Number | Thread | Hose |
|------------------|--------------|------------|
| 4C5E-4RMIX | 7/16 | 3/16 |
| 5C5E-5RMIX | 1/2 | 1/4 |
| 6C5E-6RMIX | 5/8 | 5/16 |
| 8C5E-8RMIX | 3/4 | 13/32 |

45° Tube Male SAE Inverted Flare C5E



| P/Number | Thread | Hose |
|--------------------|--------------|------------|
| 6C5E-6RMIX45 | 5/8 | 5/16 |
| 8C5E-8RMIX45 | 3/4 | 13/32 |

90° Tube Male SAE Inverted Flare C5E

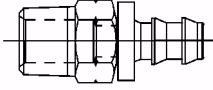


| P/Number | Thread | Hose |
|--------------------|--------------|------------|
| 4C5E-4RMIX90 | 7/16 | 3/16 |
| 5C5E-5RMIX90 | 1/2 | 1/4 |
| 6C5E-6RMIX90 | 5/8 | 5/16 |
| 8C5E-8RMIX90 | 3/4 | 13/32 |

Section 2

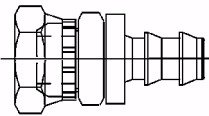
Lock-On Couplings

Straight Male BSPT LOL/LOC



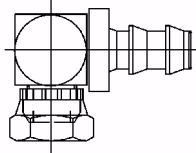
| P/Number | Thread | Hose |
|----------|--------|------|
| LMB-0204 | 1/8 | 1/4 |
| LMB-0205 | 1/8 | 5/16 |
| LMB-0404 | 1/4 | 1/4 |
| LMB-0405 | 1/4 | 5/16 |
| LMB-0406 | 1/4 | 3/8 |
| LMB-0604 | 3/8 | 1/4 |
| LMB-0605 | 3/8 | 5/16 |
| LMB-0606 | 3/8 | 3/8 |
| LMB-0608 | 3/8 | 1/2 |
| LMB-0806 | 1/2 | 3/8 |
| LMB-0808 | 1/2 | 1/2 |
| LMB-1212 | 3/4 | 3/4 |

Straight Female BSPP Swivel LOL/LOC



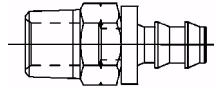
| P/Number | Thread | Hose |
|----------|--------|------|
| LFB-0204 | 1/8 | 1/4 |
| LFB-0404 | 1/4 | 1/4 |
| LFB-0405 | 1/4 | 5/16 |
| LFB-0406 | 1/4 | 3/8 |
| LFB-0604 | 3/8 | 1/4 |
| LFB-0606 | 3/8 | 3/8 |
| LFB-0608 | 3/8 | 1/2 |
| LFB-0806 | 1/2 | 3/8 |
| LFB-0808 | 1/2 | 1/2 |
| LFB-0810 | 1/2 | 5/8 |
| LFB-1212 | 3/4 | 3/4 |

90° Female BSPP Swivel LOL/LOC



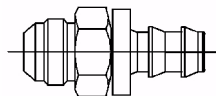
| P/Number | Thread | Hose |
|-------------|--------|------|
| LFB90C-0404 | 1/4 | 1/4 |
| LFB90C-0405 | 1/4 | 5/16 |
| LFB90C-0604 | 3/8 | 1/4 |
| LFB90C-0606 | 3/8 | 3/8 |
| LFB90C-0808 | 1/2 | 1/2 |
| LFB90C-1212 | 3/4 | 3/4 |

Straight Male NPTF LOL/LOC



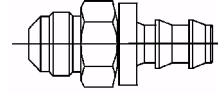
| P/Number | Thread | Hose |
|------------|--------|------|
| LMN-0204 | 1/8 | 1/4 |
| LMN-0205 | 1/8 | 5/16 |
| * LMN-0404 | 1/4 | 1/4 |
| * LMN-0406 | 1/4 | 3/8 |
| * LMN-0606 | 3/8 | 3/8 |
| * LMN-0808 | 1/2 | 1/2 |

Straight Male JIC LOL/LOC



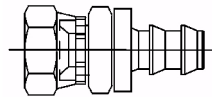
| P/Number | Thread | Hose |
|------------|--------|------|
| * LMJ-0704 | 7/16 | 1/4 |
| LMJ-0804 | 1/2 | 1/4 |
| LMJ-0904 | 9/16 | 1/4 |
| * LMJ-0906 | 9/16 | 3/8 |
| * LMJ-1206 | 3/4 | 3/8 |
| LMJ-1208 | 3/4 | 1/2 |
| * LMJ-1408 | 7/8 | 1/2 |
| LMJ-1410 | 7/8 | 5/8 |
| LMJ-1712 | 1-1/16 | 3/4 |

Straight Male SAE LOL/LOC



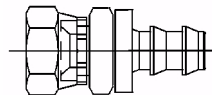
| P/Number | Thread | Hose |
|----------|--------|------|
| LMS-0704 | 7/16 | 1/4 |
| LMS-0806 | 1/2 | 3/8 |

Straight Female JIC LOL/LOC



| P/Number | Thread | Hose |
|----------|--------|------|
| LFJ-0904 | 9/16 | 1/4 |
| LFJ-0906 | 9/16 | 3/8 |
| LFJ-1212 | 3/4 | 3/4 |
| LFJ-1712 | 1-1/16 | 3/4 |

Straight Female JIC/SAE Dual Seat Swivel LOL/LOC



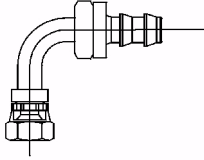
| P/Number | Thread | Hose |
|-----------|--------|------|
| LFJS-0704 | 7/16 | 1/4 |
| LFJS-0804 | 1/2 | 1/4 |
| LFJS-0805 | 1/2 | 5/16 |
| LFJS-1206 | 3/4 | 3/8 |
| LFJS-1208 | 3/4 | 1/2 |
| LFJS-1408 | 7/8 | 1/2 |
| LFJS-1410 | 7/8 | 5/8 |

Section 2

Lock-On Couplings

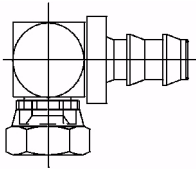


90° Tube Female JIC Swivel LOL/LOC



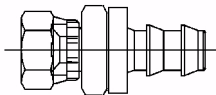
| P/Number | Thread | Hose |
|------------------|--------------|------------|
| LFJ90-0906 | 9/16 | 3/8 |
| LFJ90-1206 | 3/4 | 3/8 |
| LFJ90-1208 | 3/4 | 1/2 |
| LFJ90-1408 | 7/8 | 1/2 |
| LFJ90-1712 | 1-1/16 | 3/4 |

90° Close Female JIC Swivel LOL/LOC



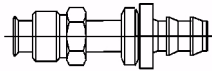
| P/Number | Thread | Hose |
|-------------------|--------------|------------|
| LFJ90C-0704 | 7/16 | 1/4 |
| LFJ90C-0904 | 9/16 | 1/4 |
| LFJ90C-0906 | 9/16 | 3/8 |
| LFJ90C-1206 | 3/4 | 3/8 |
| LFJ90C-1208 | 3/4 | 1/2 |
| LFJ90C-1712 | 1-1/16 | 3/4 |

Straight Female SAE LOL/LOC



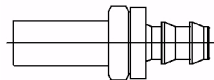
| P/Number | Hose | Hose |
|----------------|------------|------------|
| LFS-1006 | 5/8 | 3/8 |

Straight Male SAE Inverted Flare LOL/LOC



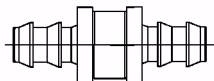
| P/Number | Thread | Hose |
|-------------------|--------------|------------|
| LMIX-0704 | 7/16 | 1/4 |
| * LMIX-0804 | 1/2 | 1/4 |
| LMIX-1006 | 5/8 | 3/8 |

Standpipe LOL/LOC



| P/Number | Hose | Hose |
|-------------------|------------|------------|
| * LSP-0404 | 1/4 | 1/4 |
| * LSP-0504 | 5/16 | 1/4 |
| * LSP-0606 | 3/8 | 3/8 |
| LSP-0808 | 1/2 | 1/2 |
| * LSP-15M08 | 15mm | 1/2 |

Hose Joiner LOL/LOC

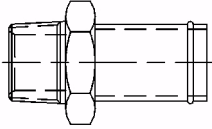


| P/Number | Hose | Hose |
|------------------|------------|------------|
| LHJ-0404 | 1/4 | 1/4 |
| LHJ-0505 | 5/16 | 5/16 |
| LHJ-0606 | 3/8 | 3/8 |
| * LHJ-0806 | 1/2 | 3/8 |
| LHJ-0808 | 1/2 | 1/2 |
| LHJ-1010 | 5/8 | 5/8 |
| LHJ-1212 | 3/4 | 3/4 |

Section 2

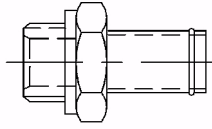
Clamp-On Suction Hose Tails

Clamp-on Hosetail M/M BSPT x Tail



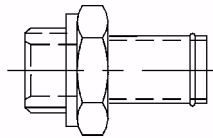
| P/Number | Thread | Hose |
|------------|--------|-------|
| CB4-0404 | 1/4 | 1/4 |
| CB4-0406 | 1/4 | 3/8 |
| CB4-0408 | 1/4 | 1/2 |
| CB4-0604 | 3/8 | 1/4 |
| CB4-0606 | 3/8 | 3/8 |
| CB4-0608 | 3/8 | 1/2 |
| CB4-0610 | 3/8 | 5/8 |
| CB4-0806 | 1/2 | 3/8 |
| CB4-0808 | 1/2 | 1/2 |
| CB4-0810 | 1/2 | 5/8 |
| CB4-0812 | 1/2 | 3/4 |
| CB4-0816 | 1/2 | 1 |
| CB4-1212 | 3/4 | 3/4 |
| CB4-1216 | 3/4 | 1 |
| CB4-1220 | 3/4 | 1-1/4 |
| CB4-1612 | 1 | 3/4 |
| CB4-1616 | 1 | 1 |
| CB4-1620 | 1 | 1-1/4 |
| CB4-1624 | 1 | 1-1/2 |
| CB4-2016 | 1-1/4 | 1 |
| CB4-2020 | 1-1/4 | 1-1/4 |
| CB4-2024 | 1-1/4 | 1-1/2 |
| CB4-2420 | 1-1/2 | 1-1/4 |
| CB4-2424 | 1-1/2 | 1-1/2 |
| CB4-2432 | 1-1/2 | 2 |
| * CB4-2440 | 1-1/2 | 2-1/2 |
| CB4-3232 | 2 | 2 |
| * CB4-3240 | 2 | 2-1/2 |
| * CB4-4040 | 2-1/2 | 2-1/2 |

Clamp-on Hosetail M/M BSPP x Tail



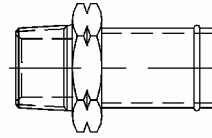
| P/Number | Thread | Hose |
|----------|--------|-------|
| CP4-0612 | 3/8 | 3/4 |
| CP4-0812 | 1/2 | 3/4 |
| CP4-0816 | 1/2 | 1 |
| CP4-0820 | 1/2 | 1-1/4 |
| CP4-1212 | 3/4 | 3/4 |
| CP4-1216 | 3/4 | 1 |
| CP4-1220 | 3/4 | 1-1/4 |
| CP4-1224 | 3/4 | 1-1/2 |
| CP4-1616 | 1 | 1 |
| CP4-1620 | 1 | 1-1/4 |
| CP4-1624 | 1 | 1-1/2 |
| CP4-2016 | 1-1/4 | 1 |
| CP4-2020 | 1-1/4 | 1-1/4 |
| CP4-2024 | 1-1/4 | 1-1/2 |
| CP4-2032 | 1-1/4 | 2 |
| CP4-2424 | 1-1/2 | 1-1/2 |
| CP4-2432 | 1-1/2 | 2 |
| CP4-3232 | 2 | 2 |

Clamp-on Hosetail M/M Metric x Tail



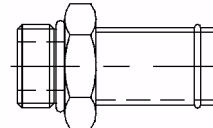
| P/Number | Thread | Hose |
|----------|--------|-------|
| CM4-3316 | M33 | 1 |
| CM4-3324 | M33 | 1-1/2 |

Clamp-on Hosetail M/M NPTF x Tail



| P/Number | Thread | Hose |
|------------|--------|-------|
| * CN4-0404 | 1/4 | 1/4 |
| CN4-0406 | 1/4 | 3/8 |
| CN4-0606 | 3/8 | 3/8 |
| CN4-0608 | 3/8 | 1/2 |
| CN4-0610 | 3/8 | 5/8 |
| * CN4-0808 | 1/2 | 1/2 |
| * CN4-0810 | 1/2 | 5/8 |
| CN4-1212 | 3/4 | 3/4 |
| CN4-1216 | 3/4 | 1 |
| CN4-1616 | 1 | 1 |
| CN4-1620 | 1 | 1-1/4 |
| CN4-1624 | 1 | 1-1/2 |
| * CN4-1626 | 1 | 1-5/8 |
| CN4-2020 | 1-1/4 | 1-1/4 |
| CN4-2024 | 1-1/4 | 1-1/2 |
| CN4-2416 | 1-1/2 | 1 |
| CN4-2420 | 1-1/2 | 1-1/4 |
| CN4-2424 | 1-1/2 | 1-1/2 |
| CN4-2432 | 1-1/2 | 2 |
| CN4-3232 | 2 | 2 |

Clamp-on Hosetail M/M UNO x Tail



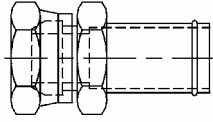
| P/Number | Thread | Hose |
|-----------|--------|-------|
| C5-1208 | 3/4 | 1/2 |
| C5-1212 | 3/4 | 3/4 |
| C5-1408 | 7/8 | 1/2 |
| C5-1412 | 7/8 | 3/4 |
| C5-1420 | 7/8 | 1-1/4 |
| * C5-1712 | 1-1/16 | 3/4 |
| C5-1716 | 1-1/16 | 1 |
| C5-1720 | 1-1/16 | 1-1/4 |
| * C5-2112 | 1-5/16 | 3/4 |
| C5-2116 | 1-5/16 | 1 |
| C5-2120 | 1-5/16 | 1-1/4 |
| C5-2124 | 1-5/16 | 1-1/2 |
| C5-2620 | 1-5/8 | 1-1/4 |
| C5-2624 | 1-5/8 | 1-1/2 |
| C5-3024 | 1-7/8 | 1-1/2 |
| C5-3032 | 1-7/8 | 2 |

Section 2

Clamp-On Suction Hose Tails

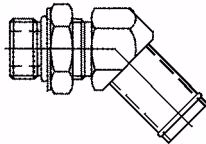


Clamp-on Hosetail F/M BSPP x Tail



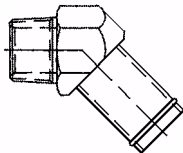
| P/Number | Thread | Hose |
|----------|--------|-------|
| CB5-1212 | 3/4 | 3/4 |
| CB5-1616 | 1 | 1 |
| CB5-2020 | 1-1/4 | 1-1/4 |

Clamp-on Hosetail 45° Elbow. M/M UNO x Tail



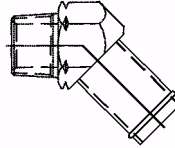
| P/Number | Thread | Hose |
|------------|--------|-------|
| C41-1212 | 3/4 | 3/4 |
| * C41-1408 | 7/8 | 1/2 |
| C41-1716 | 1-1/16 | 1 |
| * C41-2116 | 1-5/16 | 1 |
| * C41-2120 | 1-5/16 | 1-1/4 |
| * C41-2124 | 1-5/16 | 1-1/2 |
| * C41-2620 | 1-5/8 | 1-1/4 |
| * C41-2624 | 1-5/8 | 1-1/2 |

Clamp-on Hosetail 45° Elbow. M/M BSPT x Tail



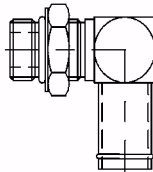
| P/Number | Thread | Hose |
|-------------|--------|-------|
| CB41-0808 | 1/2 | 1/2 |
| * CB41-0812 | 1/2 | 3/4 |
| CB41-1212F | 3/4 | 3/4 |
| CB41-1216 | 3/4 | 1 |
| CB41-1616 | 1 | 1 |
| CB41-1620F | 1 | 1-1/4 |
| CB41-2020 | 1-1/4 | 1-1/4 |
| CB41-2024 | 1-1/4 | 1-1/2 |

Clamp-on Hosetail 45° Elbow. M/M NPTF x Tail



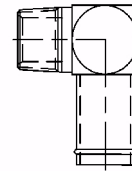
| P/Number | Thread | Hose |
|-------------|--------|-------|
| * CN41-0608 | 3/8 | 1/2 |
| * CN41-0812 | 1/2 | 3/4 |
| CN41-1212 | 3/4 | 3/4 |
| CN41-1216 | 3/4 | 1 |
| CN41-1220 | 3/4 | 1-1/4 |
| CN41-1616 | 1 | 1 |
| CN41-1620 | 1 | 1-1/4 |
| * CN41-2020 | 1-1/4 | 1-1/4 |

Clamp-on Hosetail 90° Elbow M/M UNO x Tail



| P/Number | Thread | Hose |
|------------|--------|-------|
| * C60-0905 | 9/16 | 5/16 |
| * C60-0906 | 9/16 | 3/8 |
| * C60-0908 | 9/16 | 1/2 |
| C60-1208 | 3/4 | 1/2 |
| * C60-1210 | 3/4 | 5/8 |
| C60-1212 | 3/4 | 3/4 |
| C60-1412 | 7/8 | 3/4 |
| * C60-1416 | 7/8 | 1 |
| C60-1420 | 7/8 | 1-1/4 |
| * C60-1710 | 1-1/16 | 5/8 |
| C60-1712 | 1-1/16 | 3/4 |
| C60-1716 | 1-1/16 | 1 |
| C60-1720 | 1-1/16 | 1-1/4 |
| * C60-1724 | 1-1/16 | 1-1/2 |
| C60-2112 | 1-5/16 | 3/4 |
| C60-2116 | 1-5/16 | 1 |
| C60-2120 | 1-5/16 | 1-1/4 |
| C60-2124 | 1-5/16 | 1-1/2 |
| C60-2620 | 1-5/8 | 1-1/4 |
| C60-2624F | 1-5/8 | 1-1/2 |
| C60-3024F | 1-7/8 | 1-1/2 |

Clamp-on Hosetail 90° Elbow M/M BSPT x Tail

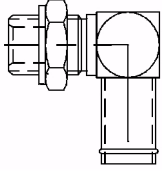


| P/Number | Thread | Hose |
|-------------|--------|-------|
| CB60-0204 | 1/8 | 1/4 |
| * CB60-0404 | 1/4 | 1/4 |
| * CB60-0405 | 1/4 | 5/16 |
| CB60-0406 | 1/4 | 3/8 |
| * CB60-0606 | 3/8 | 3/8 |
| * CB60-0608 | 3/8 | 1/2 |
| * CB60-0610 | 3/8 | 5/8 |
| CB60-0612 | 3/8 | 3/4 |
| CB60-0806 | 1/2 | 3/8 |
| CB60-0808 | 1/2 | 1/2 |
| * CB60-0810 | 1/2 | 5/8 |
| CB60-0812 | 1/2 | 3/4 |
| * CB60-1208 | 3/4 | 1/2 |
| CB60-1212 | 3/4 | 3/4 |
| CB60-1216 | 3/4 | 1 |
| CB60-1220 | 3/4 | 1-1/4 |
| CB60-1612 | 1 | 3/4 |
| CB60-1616 | 1 | 1 |
| CB60-1620 | 1 | 1-1/4 |
| CB60-1624F | 1 | 1-1/2 |
| * CB60-2012 | 1-1/4 | 3/4 |
| CB60-2016F | 1-1/4 | 1 |
| CB60-2020F | 1-1/4 | 1-1/4 |
| CB60-2024F | 1-1/4 | 1-1/2 |
| CB60-2032 | 1-1/4 | 2 |
| CB60-2420 | 1-1/2 | 1-1/4 |
| CB60-2424F | 1-1/2 | 1-1/2 |
| CB60-2432 | 1-1/2 | 2 |
| CB60-3232 | 2 | 2 |

Section 2

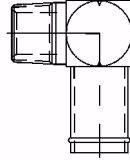
Clamp-On Suction Hose Tails

Clamp-on Hosetail 90° Elbow M/M BSPP x Tail



| P/Number | Thread | Hose |
|-------------|--------|-------|
| CP60-0608 | 3/8 | 1/2 |
| CP60-0612 | 3/8 | 3/4 |
| CP60-0812 | 1/2 | 3/4 |
| CP60-0816 | 1/2 | 1 |
| CP60-1212 | 3/4 | 3/4 |
| CP60-1216 | 3/4 | 1 |
| CP60-1220 | 3/4 | 1-1/4 |
| * CP60-1612 | 1 | 3/4 |
| CP60-1616 | 1 | 1 |
| CP60-1620 | 1 | 1-1/4 |
| CP60-1624F | 1 | 1-1/2 |
| CP60-1632 | 1 | 2 |
| CP60-2016F | 1-1/4 | 1 |
| CP60-2020F | 1-1/4 | 1-1/4 |
| CP60-2024F | 1-1/4 | 1-1/2 |
| CP60-2032 | 1-1/4 | 2 |
| CP60-2424 | 1-1/2 | 1-1/2 |
| CP60-2432 | 1-1/2 | 2 |

Clamp-on Hosetail 90° Elbow M/M NPTF x Tail



| P/Number | Thread | Hose |
|-------------|--------|-------|
| CN60-0404 | 1/4 | 1/4 |
| CN60-0406 | 1/4 | 3/8 |
| * CN60-0408 | 1/4 | 1/2 |
| CN60-0410 | 1/4 | 5/8 |
| CN60-0606 | 3/8 | 3/8 |
| CN60-0608 | 3/8 | 1/2 |
| * CN60-0610 | 3/8 | 5/8 |
| CN60-0612 | 3/8 | 3/4 |
| * CN60-0808 | 1/2 | 1/2 |
| CN60-0812 | 1/2 | 3/4 |
| * CN60-1212 | 3/4 | 3/4 |
| CN60-1216 | 3/4 | 1 |
| * CN60-1612 | 1 | 3/4 |
| CN60-1616 | 1 | 1 |
| * CN60-1620 | 1 | 1-1/4 |
| * CN60-1624 | 1 | 1-1/2 |
| * CN60-2016 | 1-1/4 | 1 |
| CN60-2020 | 1-1/4 | 1-1/4 |
| CN60-2024 | 1-1/4 | 1-1/2 |
| CN60-2424 | 1-1/2 | 1-1/2 |
| CN60-2432 | 1-1/2 | 2 |

Section 3

Permanent Crimp Couplings



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| SUPER-CRIMP (2-PIECE) COUPLINGS (S SERIES) | | |
| FNP | Ferrule to suit S Series | 3.6 |
| FN3P | Ferrule to suit S Series | 3.6 |
| FN4P | Ferrule to suit S Series | 3.6 |
| FSP | Ferrule to suit S Series | 3.6 |
| FNM2P | Ferrule to suit S Series | 3.6 |
| FNT | Ferrule to suit S Series | 3.6 |
| FNS | Ferrule to suit S Series | 3.6 |
| FSS | Ferrule to suit S Series | 3.6 |
| SMB | Straight Male BSPT | 3.6 |
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| SMBX90C | 90° Close Male BSPT Swivel | 3.7 |
| SFB | Straight Female BSPP Swivel | 3.7 |
| SFB45 | 45° Tube Style Female BSPP Swivel | 3.7 |
| SFB90 | 90° Tube Style Female BSPP Swivel | 3.7 |
| SFB90C | 90° Close Female BSPP Swivel | 3.7 |
| SFBZ | Straight Female Flat Face BSPP Swivel | 3.7 |
| SMP | Straight Male BSPP | 3.7 |
| SMJ | Straight Male JIC | 3.7 |
| SFJ | Straight Female JIC Swivel | 3.8 |
| SFJ45 | 45° Tube Style Female JIC Swivel | 3.8 |
| SFJ45C | 45° Close Female JIC Swivel | 3.8 |
| SFJ90 | 90° Tube Style Female JIC Swivel | 3.8 |
| SFJ90L | 90° Tube Style Female JIC Long Drop Swivel | 3.8 |
| SFJ90C | 90° Close Style Female JIC Swivel | 3.8 |
| SMORF | Straight Male ORFS | 3.8 |
| SFFO | Straight Female Flat Face O-Ring (ORFS) Swivel | 3.8 |
| SFFO45 | 45° Tube Style Female Flat Face O-Ring (ORFS) Swivel | 3.9 |
| SFFO90S | 90° Tube Style Female Flat Face O-Ring (ORFS) Short Drop Swivel | 3.9 |
| SFFO90L | 90° Tube Style Female Flat Face O-Ring (ORFS) Long Drop Swivel | 3.9 |
| SFNP | Straight Female BSPP Japanese JIS B8363 Swivel 30° Cone Seat | 3.9 |
| SFK | Straight Female Metric Japanese JIS B8363 Swivel 30° Cone Seat | 3.9 |
| SFK45 | 45° Female Metric Japanese JIS B8363 Swivel 30° Cone Seat | 3.9 |
| SFK90 | 90° Female Metric Japanese JIS B8363 Swivel 30° Cone Seat | 3.9 |
| SMN | Straight Male NPTF | 3.9 |
| SFN | Straight Female NPSM Swivel | 3.9 |
| SFNF | Straight Female NPTF Fixed | 3.10 |
| SHJ | Hose Joiner | 3.10 |
| SLS | Lifesaver Hose End | 3.10 |
| SMOX | Straight Male UNO Swivel | 3.10 |
| SMOX90C | 90° Male UNO Swivel | 3.10 |
| SFS | Straight Female SAE Swivel | 3.10 |
| SFS90 | 90° Female SAE Swivel | 3.10 |
| SMIX | Straight Male SAE Inverted Flare Swivel | 3.10 |
| SMIX45 | 45° Tube Style Male SAE Inverted Flare Swivel | 3.10 |
| SMIX90 | 90° Tube Style Male SAE Inverted Flare Swivel | 3.10 |
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| SFGAZ | Straight Female French Series | 3.12 |
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| SSS45 | 45° Male Staplelock System..... | 3.12 |
| SSS90 | 90° Male Staplelock System..... | 3.12 |
| SFL | Straight SAE O-Ring Flange Code 61 | 3.13 |
| SFLK | Straight Komatsu O-Ring Flange | 3.13 |
| SFL22 | 22.5° SAE O-Ring Flange Code 61 | 3.13 |
| SFL30 | 30° SAE O-Ring Flange Code 61 | 3.13 |
| SFL45 | 45° SAE O-Ring Flange Code 61 | 3.13 |
| SFLK45 | 45° Komatsu O-Ring Flange | 3.13 |
| SFL60 | 60° SAE O-Ring Flange Code 61 | 3.13 |
| SFL67 | 67° SAE O-Ring Flange Code 61 | 3.13 |
| SFL90 | 90° SAE O-Ring Flange Code 61 | 3.14 |
| SFLK90 | 90° Komatsu O-Ring Flange | 3.14 |
| SFL90L..... | 90° SAE O-Ring Flange Long Drop Code 61..... | 3.14 |
| SFL110 | 110° SAE O-Ring Flange Code 61 | 3.14 |
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| EFB..... | Straight Female BSPP Swivel | 3.15 |
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| EFJ45 | 45° Close Female JIC Swivel | 3.16 |
| EFJ90 | 90° Tube Style Female JIC Swivel..... | 3.16 |
| EFJ90L..... | 90° Tube Style Female JIC Swivel Long Drop | 3.16 |
| EFJ90C | 90° Close Style Female JIC Swivel | 3.16 |
| EFFO | Straight Female Flat Face O-Ring (ORFS) Swivel..... | 3.16 |
| EFFO45 | 45° Tube Style Female Flat Face O-Ring (ORFS) Swivel | 3.16 |
| EFFO90 | 90° Tube Style Female Flat Face O-Ring (ORFS) Swivel | 3.16 |

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| G-MPX | Straight Male NPTF Swivel..... | 3.17 |
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| | | |
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| G-MJ | Straight Male JIC..... | 3.17 |
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| G-MIX90 | 90° Tube Style Male SAE Swivel | 3.19 |
| | | |
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| G-DBJ | Straight Metric Banjo | 3.20 |
| | | |
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| G-FDLORX90 | 90° Tube Style Female DIN Swivel Light Series..... | 3.20 |
| | | |
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| | | |
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| | | |
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| | | |
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| MB..... | Male UNO | 3.23 |
| MP..... | Male Pipe NPTF 30° Cone Seat | 3.23 |
| MBSPP..... | Male British Standard Pipe Parallel | 3.23 |
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| FJX90..... | Female JIC 37° Flare Swivel 90° Bent Tube..... | 3.24 |
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| FFORX..... | Female Flat Face Swivel..... | 3.24 |
| FFORX45..... | Female Flat Face Swivel 45° Bent Tube | 3.24 |
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| FLH60..... | Code 62 O-Ring Flange Heavy 60° Bent Tube | 3.27 |
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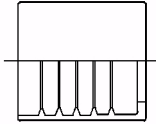
Permanent Crimp Couplings



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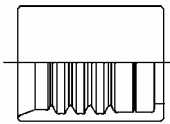
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| FLC67..... | Caterpillar Style O-Ring Flange 67.5° Bent Tube | 3.28 |
| FLC90..... | Caterpillar Style O-Ring Flange 90° Bent Tube | 3.28 |
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| GSM-FFORX45 | Female Flat Face Swivel 45° Bent Tube (4000psi limited) | 3.29 |
| GSM-FFORX90 | Female Flat Face Swivel 90° Bent Tube (4000psi limited) | 3.29 |
| GSM-FDHORX..... | Female DIN 24° Cone Swivel Heavy Series with O-Ring | 3.29 |
| GSM-FDHORX45.... | Female DIN 24° Cone Swivel Heavy Series with O-Ring 45° Bent Tube..... | 3.29 |
| GSM-FDHORX90.... | Female DIN 24° Cone Swivel Heavy Series with O-Ring 90° Bent Tube..... | 3.29 |
| GSM-FL | Code 61 O-Ring Flange | 3.30 |
| GSM-FL30 | Code 61 O-Ring Flange 30° Bent Tube..... | 3.30 |
| GSM-FL45 | Code 61 O-Ring Flange 45° Bent Tube..... | 3.30 |
| GSM-FL60 | Code 61 O-Ring Flange 60° Bent Tube..... | 3.30 |
| GSM-FL90 | Code 61 O-Ring Flange 90° Bent Tube..... | 3.30 |
| GSM-FLH..... | Code 62 O-Ring Flange Heavy..... | 3.30 |
| GSM-FLH22 | Code 62 O-Ring Flange Heavy 22.5° Bent Tube..... | 3.30 |
| GSM-FLH30 | Code 62 O-Ring Flange Heavy 30° Bent Tube..... | 3.30 |
| GSM-FLH45 | Code 62 O-Ring Flange Heavy 45° Bent Tube..... | 3.30 |
| GSM-FLH60 | Code 62 O-Ring Flange Heavy 60° Bent Tube..... | 3.30 |
| GSM-FLH90 | Code 62 O-Ring Flange Heavy 90° Bent Tube..... | 3.30 |
| GSM-FLC..... | Caterpillar Style O-Ring Flange | 3.31 |
| GSM-FLC22..... | Caterpillar Style O-Ring Flange 22.5° Bent Tube | 3.31 |
| GSM-FLC30..... | Caterpillar Style O-Ring Flange 30° Bent Tube | 3.31 |
| GSM-FLC45..... | Caterpillar Style O-Ring Flange 45° Bent Tube | 3.31 |
| GSM-FLC60..... | Caterpillar Style O-Ring Flange 60° Bent Tube | 3.31 |
| GSM-FLC90..... | Caterpillar Style O-Ring Flange 90° Bent Tube | 3.31 |
| VACU-CRIMP (1-PIECE) COUPLINGS (GL SERIES) | | |
| FL..... | Code 61 O-Ring Flange | 3.32 |
| FL22..... | Code 61 O-Ring Flange 22.5° Bent Tube..... | 3.32 |
| FL30..... | Code 61 O-Ring Flange 30° Bent Tube..... | 3.32 |
| FL45..... | Code 61 O-Ring Flange 45° Bent Tube..... | 3.32 |
| FL60..... | Code 61 O-Ring Flange 60° Bent Tube..... | 3.32 |
| FL67..... | Code 61 O-Ring Flange 67.5° Bent Tube..... | 3.32 |
| FL90..... | Code 61 O-Ring Flange 90° Bent Tube..... | 3.32 |

Super-Crimp S Series FNP Ferrule Type



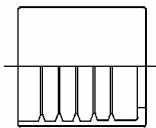
| P/Number | Hose |
|----------|-------|
| FNP-03 | 3/16 |
| FNP-04 | 1/4 |
| FNP-05 | 5/16 |
| FNP-06 | 3/8 |
| FNP-08 | 1/2 |
| FNP-10 | 5/8 |
| FNP-12 | 3/4 |
| FNP-16 | 1 |
| FNP-20 | 1-1/4 |
| FNP-24 | 1-1/2 |
| FNP-32 | 2 |

Super-Crimp S Series FN3P Ferrule Type



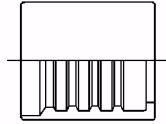
| P/Number | Hose |
|----------|------|
| FN3P-04 | 1/4 |
| FN3P-06 | 3/8 |
| FN3P-08 | 1/2 |

Super-Crimp S Series FN4P Ferrule Type



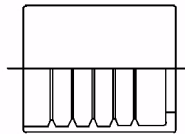
| P/Number | Hose |
|----------|------|
| FN4P-04 | 1/4 |
| FN4P-06 | 3/8 |

Super-Crimp S Series FSP Ferrule Type



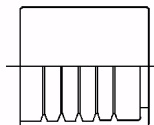
| P/Number | Hose |
|-----------|-------|
| FSP-204 | 1/4 |
| * FSP-205 | 5/16 |
| FSP-206A | 3/8 |
| FSP-206 | 3/8 |
| FSP-208 | 1/2 |
| FSP-210 | 5/8 |
| FSP-212 | 3/4 |
| FSP-216 | 1 |
| FSP-220 | 1-1/4 |
| FSP-412 | 3/4 |
| FSP-424 | 1-1/2 |
| FSP-432 | 2 |

Super-Crimp S Series FNM2P Ferrule Type



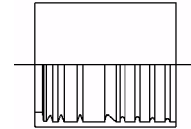
| P/Number | Hose |
|----------|------|
| FNM2P-06 | 3/8 |
| FNM2P-08 | 1/2 |
| FNM2P-10 | 5/8 |
| FNM2P-12 | 3/4 |

Super-Crimp S Series FNT Ferrule Type



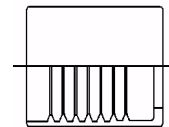
| P/Number | Hose |
|----------|------|
| FNT-04 | 1/4 |
| FNT-06 | 3/8 |
| FNT-08 | 1/2 |
| FNT-10 | 5/8 |
| FNT-12 | 3/4 |
| FNT-16 | 1 |

Super-Crimp Ferrule FNS Ferrule Type



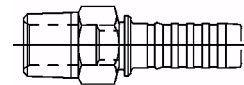
| P/Number | Hose |
|----------|-------|
| FNS-06 | 3/8 |
| FNS-08 | 1/2 |
| FNS-10 | 5/8 |
| FNS-12 | 3/4 |
| FNS-16 | 1 |
| FNS-20 | 1-1/4 |
| FNS-24 | 1-1/2 |
| FNS-32 | 2 |

Super-Crimp S Series FSS Ferrule Type



| P/Number | Hose |
|----------|-------|
| FSS-06 | 3/8 |
| FSS-08 | 1/2 |
| FSS-12 | 3/4 |
| FSS-16 | 1 |
| FSS-20 | 1-1/4 |
| FSS-24 | 1-1/2 |
| FSS-32 | 2 |

Straight Male BSPT

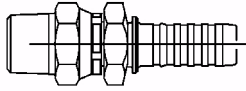


| P/Number | Thread | Hose |
|----------|--------|-------|
| SMB-0204 | 1/8 | 1/4 |
| SMB-0404 | 1/4 | 1/4 |
| SMB-0406 | 1/4 | 3/8 |
| SMB-0604 | 3/8 | 1/4 |
| SMB-0606 | 3/8 | 3/8 |
| SMB-0608 | 3/8 | 1/2 |
| SMB-0806 | 1/2 | 3/8 |
| SMB-0808 | 1/2 | 1/2 |
| SMB-1010 | 5/8 | 5/8 |
| SMB-1208 | 3/4 | 1/2 |
| SMB-1210 | 3/4 | 5/8 |
| SMB-1212 | 3/4 | 3/4 |
| SMB-1612 | 1 | 3/4 |
| SMB-1616 | 1 | 1 |
| SMB-2020 | 1-1/4 | 1-1/4 |
| SMB-2424 | 1-1/2 | 1-1/2 |
| SMB-3232 | 2 | 2 |

Section 3 Super-Crimp Couplings - Two Piece

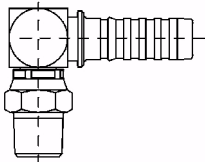


Straight Male BSPT Swivel



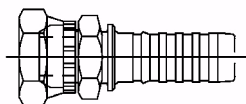
| P/Number | Thread | Hose |
|-----------|--------|------|
| SMBX-0404 | 1/4 | 1/4 |
| SMBX-0604 | 3/8 | 1/4 |
| SMBX-0606 | 3/8 | 3/8 |
| SMBX-0806 | 1/2 | 3/8 |
| SMBX-0808 | 1/2 | 1/2 |

90° Close Male BSPT Swivel



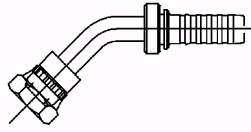
| P/Number | Thread | Hose |
|----------------|--------|------|
| * SMBX90C-0606 | 3/8 | 3/8 |
| SMBX90C-0806 | 1/2 | 3/8 |
| SMBX90C-0808 | 1/2 | 1/2 |

Straight Female BSPP Swivel



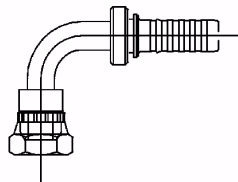
| P/Number | Thread | Hose |
|----------|--------|-------|
| SFB-0204 | 1/8 | 1/4 |
| SFB-0404 | 1/4 | 1/4 |
| SFB-0406 | 1/4 | 3/8 |
| SFB-0604 | 3/8 | 1/4 |
| SFB-0606 | 3/8 | 3/8 |
| SFB-0608 | 3/8 | 1/2 |
| SFB-0806 | 1/2 | 3/8 |
| SFB-0808 | 1/2 | 1/2 |
| SFB-1010 | 5/8 | 5/8 |
| SFB-1208 | 3/4 | 1/2 |
| SFB-1210 | 3/4 | 5/8 |
| SFB-1212 | 3/4 | 3/4 |
| SFB-1612 | 1 | 3/4 |
| SFB-1616 | 1 | 1 |
| SFB-1620 | 1 | 1-1/4 |
| SFB-2016 | 1-1/4 | 1 |
| SFB-2020 | 1-1/4 | 1-1/4 |
| SFB-2424 | 1-1/2 | 1-1/2 |
| SFB-3232 | 2 | 2 |

45° Tube Female BSPP Swivel



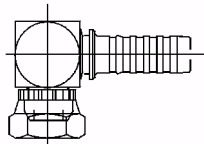
| P/Number | Thread | Hose |
|------------|--------|-------|
| SFB45-0404 | 1/4 | 1/4 |
| SFB45-0606 | 3/8 | 3/8 |
| SFB45-0806 | 1/2 | 3/8 |
| SFB45-0808 | 1/2 | 1/2 |
| SFB45-1010 | 5/8 | 5/8 |
| SFB45-1212 | 3/4 | 3/4 |
| SFB45-1616 | 1 | 1 |
| SFB45-2020 | 1-1/4 | 1-1/4 |
| SFB45-2424 | 1-1/2 | 1-1/2 |
| SFB45-3232 | 2 | 2 |

90° Tube Female BSPP Swivel



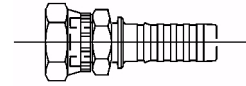
| P/Number | Thread | Hose |
|------------|--------|-------|
| SFB90-0404 | 1/4 | 1/4 |
| SFB90-0604 | 3/8 | 1/4 |
| SFB90-0606 | 3/8 | 3/8 |
| SFB90-0806 | 1/2 | 3/8 |
| SFB90-0808 | 1/2 | 1/2 |
| SFB90-1010 | 5/8 | 5/8 |
| SFB90-1212 | 3/4 | 3/4 |
| SFB90-1616 | 1 | 1 |
| SFB90-2020 | 1-1/4 | 1-1/4 |
| SFB90-2424 | 1-1/2 | 1-1/2 |
| SFB90-3232 | 2 | 2 |

90° Close Female BSPP Swivel



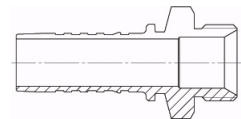
| P/Number | Thread | Hose |
|-------------|--------|------|
| SFB90C-0404 | 1/4 | 1/4 |
| SFB90C-0606 | 3/8 | 3/8 |
| SFB90C-0808 | 1/2 | 1/2 |
| SFB90C-1212 | 3/4 | 3/4 |
| SFB90C-1616 | 1 | 1 |

Straight Female BSPP Swivel Flat Face



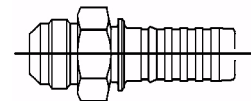
| P/Number | Thread | Hose |
|-----------|--------|------|
| SFBZ-0606 | 3/8 | 3/8 |
| SFBZ-0806 | 1/2 | 3/8 |
| SFBZ-0808 | 1/2 | 1/2 |
| SFBZ-1212 | 3/4 | 3/4 |

Straight Male BSPP



| P/Number | Thread | Hose |
|------------|--------|------|
| SMP-0404 | 1/4 | 1/4 |
| SMP-0604 | 3/8 | 1/4 |
| SMP-0606 | 3/8 | 3/8 |
| SMP-0806 | 3/4 | 3/8 |
| * SMP-0808 | 3/4 | 3/4 |

Straight Male JIC

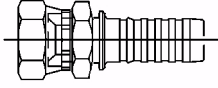


| P/Number | Thread | Hose |
|----------|--------|-------|
| SMJ-0704 | 7/16 | 1/4 |
| SMJ-0804 | 1/2 | 1/4 |
| SMJ-0904 | 9/16 | 1/4 |
| SMJ-0906 | 9/16 | 3/8 |
| SMJ-1204 | 3/4 | 1/4 |
| SMJ-1206 | 3/4 | 3/8 |
| SMJ-1208 | 3/4 | 1/2 |
| SMJ-1408 | 7/8 | 1/2 |
| SMJ-1410 | 7/8 | 5/8 |
| SMJ-1708 | 1-1/16 | 1/2 |
| SMJ-1710 | 1-1/16 | 5/8 |
| SMJ-1712 | 1-1/16 | 3/4 |
| SMJ-2112 | 1-5/16 | 3/4 |
| SMJ-2116 | 1-5/16 | 1 |
| SMJ-2616 | 1-5/8 | 1 |
| SMJ-2620 | 1-5/8 | 1-1/4 |
| SMJ-3024 | 1-7/8 | 1-1/2 |
| SMJ-4032 | 2-1/2 | 2 |

Section 3

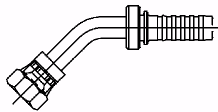
Super-Crimp Couplings - Two Piece

Straight Female JIC Swivel



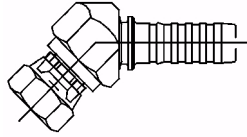
| P/Number | Thread | Hose |
|------------|--------|-------|
| PFJ-0703 | 7/16 | 3/16 |
| SFJ-0704 | 7/16 | 1/4 |
| SFJ-0804 | 1/2 | 1/4 |
| SFJ-0904 | 9/16 | 1/4 |
| PFJ-0905 | 9/16 | 5/16 |
| SFJ-0906 | 9/16 | 3/8 |
| SFJ-0908 | 9/16 | 1/2 |
| * SFJ-1204 | 3/4 | 1/4 |
| SFJ-1206 | 3/4 | 3/8 |
| SFJ-1208 | 3/4 | 1/2 |
| SFJ-1210 | 3/4 | 5/8 |
| SFJ-1406 | 7/8 | 3/8 |
| SFJ-1408 | 7/8 | 1/2 |
| SFJ-1410 | 7/8 | 5/8 |
| SFJ-1412 | 7/8 | 3/4 |
| SFJ-1708 | 1-1/16 | 1/2 |
| SFJ-1710 | 1-1/16 | 5/8 |
| SFJ-1712 | 1-1/16 | 3/4 |
| SFJ-1716 | 1-1/16 | 1 |
| SFJ-1912 | 1-3/16 | 3/4 |
| SFJ-2112 | 1-5/16 | 3/4 |
| SFJ-2116 | 1-5/16 | 1 |
| SFJ-2120 | 1-5/16 | 1-1/4 |
| SFJ-2616 | 1-5/8 | 1 |
| SFJ-2620 | 1-5/8 | 1-1/4 |
| SFJ-3024 | 1-7/8 | 1-1/2 |
| SFJ-4032 | 2-1/2 | 2 |

45° Tube Female JIC Swivel



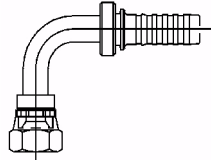
| P/Number | Thread | Hose |
|-------------|--------|-------|
| SFJ45-0704 | 7/16 | 1/4 |
| SFJ45-0804 | 1/2 | 1/4 |
| SFJ45-0904 | 9/16 | 1/4 |
| SFJ45-0906 | 9/16 | 3/8 |
| SFJ45-1206 | 3/4 | 3/8 |
| SFJ45-1208 | 3/4 | 1/2 |
| SFJ45-1408 | 7/8 | 1/2 |
| SFJ45-1410 | 7/8 | 5/8 |
| SFJ45-1412 | 7/8 | 3/4 |
| SFJ45-1710 | 1-1/16 | 5/8 |
| SFJ45-1712 | 1-1/16 | 3/4 |
| SFJ45-1912 | 1-3/16 | 3/4 |
| SFJ45-2112 | 1-5/16 | 3/4 |
| SFJ45M-2116 | 1-5/16 | 1 |
| SFJ45M-2620 | 1-5/8 | 1-1/4 |
| SFJ45M-3024 | 1-7/8 | 1-1/2 |
| SFJ45-4032 | 2-1/2 | 2 |

45° Close Female JIC Swivel



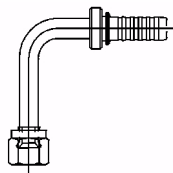
| P/Number | Thread | Hose |
|-------------|--------|------|
| SFJ45C-0704 | 7/16 | 1/4 |
| SFJ45C-0904 | 9/16 | 1/4 |
| SFJ45C-1408 | 7/8 | 1/2 |
| SFJ45C-1712 | 1-1/16 | 3/4 |

90° Tube Female JIC Swivel



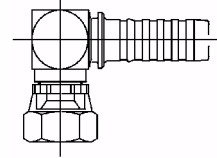
| P/Number | Thread | Hose |
|-------------|--------|-------|
| SFJ90-0704 | 7/16 | 1/4 |
| SFJ90-0804 | 1/2 | 1/4 |
| SFJ90-0904 | 9/16 | 1/4 |
| SFJ90-0906 | 9/16 | 3/8 |
| SFJ90-1206 | 3/4 | 3/8 |
| SFJ90-1208 | 3/4 | 1/2 |
| SFJ90-1406 | 7/8 | 3/8 |
| SFJ90-1408 | 7/8 | 1/2 |
| SFJ90-1410 | 7/8 | 5/8 |
| SFJ90-1412 | 7/8 | 3/4 |
| SFJ90-1708 | 1-1/16 | 1/2 |
| SFJ90-1710 | 1-1/16 | 5/8 |
| SFJ90-1712 | 1-1/16 | 3/4 |
| SFJ90-1912 | 1-3/16 | 3/4 |
| SFJ90-2112 | 1-5/16 | 3/4 |
| SFJ90S-2116 | 1-5/16 | 1 |
| SFJ90M-2116 | 1-5/16 | 1 |
| SFJ90-2120 | 1-5/16 | 1-1/4 |
| SFJ90M-2620 | 1-5/8 | 1-1/4 |
| SFJ90M-3024 | 1-7/8 | 1-1/2 |
| SFJ90M-4032 | 2-1/2 | 2 |

90° Tube Female JIC Long Swivel



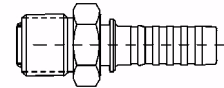
| P/Number | Thread | Hose |
|-----------------|--------|------|
| SFJ90L-0704 | 7/16 | 1/4 |
| SFJ90L-0904 | 9/16 | 1/4 |
| SFJ90L-0906 | 9/16 | 3/8 |
| SFJ90L-1206 | 3/4 | 3/8 |
| SFJ90L-1208 | 3/4 | 1/2 |
| SFJ90L-1408 | 7/8 | 1/2 |
| SFJ90L-1712 | 1-1/16 | 3/4 |
| SFJ90L-2116-110 | 1-5/16 | 1 |

90° Close Female JIC Swivel



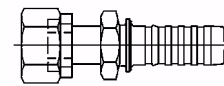
| P/Number | Thread | Hose |
|--------------|--------|------|
| SFJ90C-0704 | 7/16 | 1/4 |
| SFJ90C-0904 | 9/16 | 1/4 |
| SFJ90C-0906 | 9/16 | 3/8 |
| SFJ90C-1206 | 3/4 | 3/8 |
| SFJ90C-1208 | 3/4 | 1/2 |
| SFJ90C-1408 | 7/8 | 1/2 |
| SFJ90C-1712 | 1-1/16 | 3/4 |
| SFJ90C-2116F | 1-5/16 | 1 |

Straight Male Flat Faced O-Ring (ORFS)



| P/Number | Thread | Hose |
|------------|--------|------|
| SMORF-0904 | 9/16 | 1/4 |
| SMORF-1106 | 11/16 | 3/8 |
| SMORF-1306 | 13/16 | 3/8 |
| SMORF-1308 | 13/16 | 1/2 |
| SMORF-1608 | 1 | 1/2 |
| SMORF-1610 | 1 | 5/8 |
| SMORF-1910 | 1-3/16 | 5/8 |
| SMORF-1912 | 1-3/16 | 3/4 |
| SMORF-2312 | 1-7/16 | 3/4 |
| SMORF-2316 | 1-7/16 | 1 |

Straight Female Flat Faced O-Ring (ORFS) Swivel

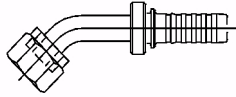


| P/Number | Thread | Hose |
|-----------|---------|-------|
| SFFO-0904 | 9/16 | 1/4 |
| SFFO-1104 | 11/16 | 1/4 |
| SFFO-1106 | 11/16 | 3/8 |
| SFFO-1306 | 13/16 | 3/8 |
| SFFO-1308 | 13/16 | 1/2 |
| SFFO-1608 | 1 | 1/2 |
| SFFO-1610 | 1 | 5/8 |
| SFFO-1910 | 1-3/16 | 5/8 |
| SFFO-1912 | 1-3/16 | 3/4 |
| SFFO-2312 | 1-7/16 | 3/4 |
| SFFO-2316 | 1-7/16 | 1 |
| SFFO-2720 | 1-11/16 | 1-1/4 |
| SFFO-3224 | 2 | 1-1/2 |

Section 3 Super-Crimp Couplings - Two Piece

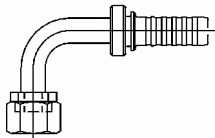


45° Tube Female Flat Faced O-Ring (ORFS) Swivel



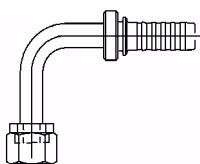
| P/Number | Thread | Hose |
|-------------|---------|-------|
| SFFO45-0904 | 9/16 | 1/4 |
| SFFO45-1104 | 11/16 | 1/4 |
| SFFO45-1106 | 11/16 | 3/8 |
| SFFO45-1306 | 13/16 | 3/8 |
| SFFO45-1308 | 13/16 | 1/2 |
| SFFO45-1608 | 1 | 1/2 |
| SFFO45-1610 | 1 | 5/8 |
| SFFO45-1910 | 1-3/16 | 5/8 |
| SFFO45-1912 | 1-3/16 | 3/4 |
| SFFO45-2316 | 1-7/16 | 1 |
| SFFO45-2720 | 1-11/16 | 1-1/4 |
| SFFO45-3224 | 2 | 1-1/2 |

90° Tube Female Flat Faced O-Ring (ORFS) Short Drop Swivel



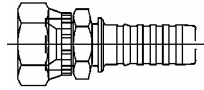
| P/Number | Thread | Hose |
|--------------|---------|-------|
| SFFO90S-0904 | 9/16 | 1/4 |
| SFFO90S-1104 | 11/16 | 1/4 |
| SFFO90S-1106 | 11/16 | 3/8 |
| SFFO90S-1306 | 13/16 | 3/8 |
| SFFO90S-1308 | 13/16 | 1/2 |
| SFFO90S-1608 | 1 | 1/2 |
| SFFO90S-1610 | 1 | 5/8 |
| SFFO90S-1910 | 1-3/16 | 5/8 |
| SFFO90S-1912 | 1-3/16 | 3/4 |
| SFFO90S-2312 | 1-7/16 | 3/4 |
| SFFO90S-2316 | 1-7/16 | 1 |
| SFFO90S-2720 | 1-11/16 | 1-1/4 |
| SFFO90S-3224 | 2 | 1-1/2 |

90° Tube Female Flat Faced O-Ring (ORFS) Long Drop Swivel



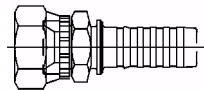
| P/Number | Thread | Hose |
|--------------|--------|------|
| SFFO90L-0904 | 9/16 | 1/4 |
| SFFO90L-1106 | 11/16 | 3/8 |
| SFFO90L-1308 | 13/16 | 1/2 |
| SFFO90L-1912 | 1-3/16 | 3/4 |
| SFFO90L-2316 | 1-7/16 | 1 |

Straight Female BSPP Japanese JIS B8363 30° Cone Swivel



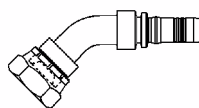
| P/Number | Thread | Hose |
|-----------|--------|-------|
| SFNP-0404 | 1/4 | 1/4 |
| SFNP-0606 | 3/8 | 3/8 |
| SFNP-0806 | 1/2 | 3/8 |
| SFNP-0808 | 1/2 | 1/2 |
| SFNP-1212 | 3/4 | 3/4 |
| SFNP-1616 | 1 | 1 |
| SFNP-2020 | 1-1/4 | 1-1/4 |

Straight Female Metric Japanese JIS B8363 30° Cone Swivel Komatsu



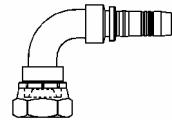
| P/Number | Thread | Hose |
|----------|-----------|-------|
| SFK-1404 | M14 x 1.5 | 1/4 |
| SFK-1806 | M18 x 1.5 | 3/8 |
| SFK-2006 | M20 x 1.5 | 3/8 |
| SFK-2208 | M22 x 1.5 | 1/2 |
| SFK-2410 | M24 x 1.5 | 5/8 |
| SFK-3012 | M30 x 1.5 | 3/4 |
| SFK-3316 | M33 x 1.5 | 1 |
| SFK-3620 | M36 x 1.5 | 1-1/4 |

45° Female Metric Japanese JIS B8363 30° Cone Swivel Komatsu



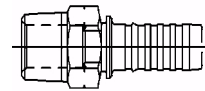
| P/Number | Thread | Hose |
|------------|-----------|------|
| SFK45-1404 | M14 x 1.5 | 1/4 |
| SFK45-1806 | M18 x 1.5 | 3/8 |
| SFK45-2208 | M22 x 1.5 | 1/2 |
| SFK45-2410 | M24 x 1.5 | 5/8 |
| SFK45-3012 | M30 x 1.5 | 3/4 |
| SFK45-3316 | M33 x 1.5 | 1 |

90° Female Metric Japanese JIS B8363 30° Cone Swivel Komatsu



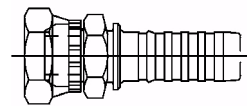
| P/Number | Thread | Hose |
|------------|-----------|------|
| SFK90-1404 | M14 x 1.5 | 1/4 |
| SFK90-1806 | M18 x 1.5 | 3/8 |
| SFK90-2208 | M22 x 1.5 | 1/2 |
| SFK90-2410 | M24 x 1.5 | 5/8 |
| SFK90-3012 | M30 x 1.5 | 3/4 |
| SFK90-3316 | M33 x 1.5 | 1 |

Straight Male NPTF



| P/Number | Thread | Hose |
|----------|--------|-------|
| SMN-0204 | 1/8 | 1/4 |
| SMN-0404 | 1/4 | 1/4 |
| SMN-0406 | 1/4 | 3/8 |
| SMN-0604 | 3/8 | 1/4 |
| SMN-0606 | 3/8 | 3/8 |
| SMN-0608 | 3/8 | 1/2 |
| SMN-0806 | 1/2 | 3/8 |
| SMN-0808 | 1/2 | 1/2 |
| SMN-1208 | 3/4 | 1/2 |
| SMN-1212 | 3/4 | 3/4 |
| SMN-1616 | 1 | 1 |
| SMN-2020 | 1-1/4 | 1-1/4 |
| SMN-2424 | 1-1/2 | 1-1/2 |
| SMN-3232 | 2 | 2 |

Straight Female NPSM Swivel

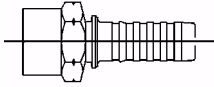


| P/Number | Thread | Hose |
|----------|--------|-------|
| SFN-2020 | 1-1/4 | 1-1/4 |
| SFN-2424 | 1-1/2 | 1-1/2 |

Section 3

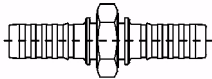
Super-Crimp Couplings - Two Piece

Fixed Female NPTF



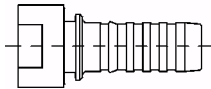
| P/Number | Thread | Hose |
|-------------|--------|------|
| SFNF-0404 | 1/4 | 1/4 |
| * SFNF-0606 | 3/8 | 3/8 |

Hose Joiner



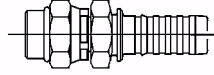
| P/Number | Hose |
|----------|------|
| PHJ-05 | 5/16 |
| SHJ-0404 | 1/4 |
| SHJ-0606 | 3/8 |
| SHJ-0808 | 1/2 |
| SHJ-1212 | 3/4 |

Lifesaver Hose Ends



| P/Number | Thread | Hose |
|------------|--------|-------|
| SLS-0404 | 1/4 | 1/4 |
| SLS-0604 | 3/8 | 1/4 |
| SLS-0606 | 3/8 | 3/8 |
| SLS-10M06Z | 5/8 | 3/8 |
| SLS-0806 | 1/2 | 3/8 |
| SLS-0808 | 1/2 | 1/2 |
| SLS-1008 | 5/8 | 1/2 |
| SLS-1010 | 5/8 | 5/8 |
| SLS-1012 | 5/8 | 3/4 |
| SLS-1212 | 3/4 | 3/4 |
| SLS-1612 | 1 | 3/4 |
| SLS-1616 | 1 | 1 |
| SLS-2020 | 1-1/4 | 1-1/4 |
| SLS-2424 | 1-1/2 | 1-1/2 |

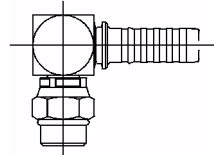
Straight Male Swivel UNO



| P/Number | Thread | Hose |
|-----------|--------|------|
| SMOX-0704 | 7/16 | 1/4 |
| SMOX-0806 | 1/2 | 3/8 |
| SMOX-0906 | 9/16 | 3/8 |
| SMOX-1204 | 3/4 | 1/4 |
| SMOX-1206 | 3/4 | 3/8 |
| SMOX-1208 | 3/4 | 1/2 |
| SMOX-1408 | 7/8 | 1/2 |

90 Duro O Ring supplied

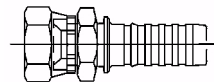
90° Close Male Swivel UNO



| P/Number | Thread | Hose |
|--------------|--------|------|
| SMOX90C-1206 | 3/4 | 3/8 |
| SMOX90C-1208 | 3/4 | 1/2 |
| SMOX90C-1408 | 7/8 | 1/2 |

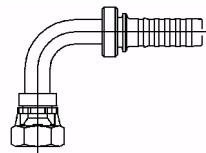
90 Duro O Ring supplied

Straight Female SAE Swivel



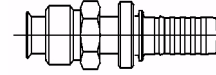
| P/Number | Thread | Hose |
|----------|--------|------|
| SFS-0804 | 1/2 | 1/4 |
| SFS-1006 | 5/8 | 3/8 |
| SFS-1206 | 3/4 | 3/8 |
| SFS-1710 | 1-1/16 | 5/8 |
| SFS-1712 | 1-1/16 | 3/4 |

90° Female SAE Swivel



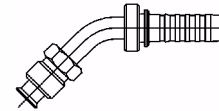
| P/Number | Thread | Hose |
|------------|--------|------|
| SFS90-1006 | 5/8 | 3/8 |
| SFS90-1206 | 3/4 | 3/8 |
| SFS90-1710 | 1-1/16 | 5/8 |
| SFS90-1712 | 1-1/16 | 3/4 |

Straight Male SAE Inverted Flare



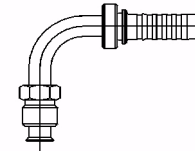
| P/Number | Thread | Hose |
|-----------|--------|------|
| SMIX-0704 | 7/16 | 1/4 |
| SMIX-0804 | 1/2 | 1/4 |
| SMIX-1006 | 5/8 | 3/8 |

45° Tube Male SAE Inverted Flare



| P/Number | Thread | Hose |
|-------------|--------|------|
| SMIX45-0704 | 7/16 | 1/4 |
| SMIX45-0804 | 1/2 | 1/4 |
| SMIX45-1006 | 5/8 | 3/8 |

90° Tube Male SAE Inverted Flare

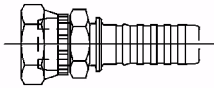


| P/Number | Thread | Hose |
|-------------|--------|------|
| SMIX90-0704 | 7/16 | 1/4 |
| SMIX90-0804 | 1/2 | 1/4 |
| SMIX90-1006 | 5/8 | 3/8 |

Section 3 Super-Crimp Couplings - Two Piece

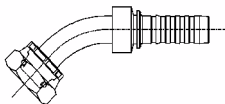


Straight Female Swivel DIN Heavy O-Ring



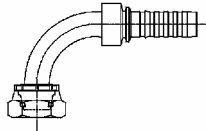
| P/Number | Thread | Hose |
|------------|-----------|-------|
| SFDKO-1404 | M14 x 1.5 | 1/4 |
| SFDKO-1604 | M16 x 1.5 | 1/4 |
| SFDKO-1804 | M18 x 1.5 | 1/4 |
| SFDKO-1806 | M18 x 1.5 | 3/8 |
| SFDKO-2006 | M20 x 1.5 | 3/8 |
| SFDKO-2206 | M22 x 1.5 | 3/8 |
| SFDKO-2208 | M22 x 1.5 | 1/2 |
| SFDKO-2408 | M24 x 1.5 | 1/2 |
| SFDKO-3010 | M30 x 2.0 | 5/8 |
| SFDKO-3012 | M30 x 2.0 | 3/4 |
| SFDKO-3612 | M36 x 2.0 | 3/4 |
| SFDKO-3616 | M36 x 2.0 | 1 |
| SFDKO-4216 | M42 x 2.0 | 1 |
| SFDKO-5220 | M52 x 2.0 | 1-1/4 |
| SFDKO-5224 | M52 x 2.0 | 1-1/2 |

45° Female Swivel DIN Heavy O-Ring



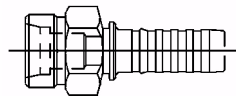
| P/Number | Thread | Hose |
|--------------|-----------|-------|
| SFDKO45-1404 | M14 x 1.5 | 1/4 |
| SFDKO45-1604 | M16 x 1.5 | 1/4 |
| SFDKO45-1804 | M18 x 1.5 | 1/4 |
| SFDKO45-1806 | M18 x 1.5 | 3/8 |
| SFDKO45-2006 | M20 x 1.5 | 3/8 |
| SFDKO45-2008 | M20 x 1.5 | 1/2 |
| SFDKO45-2408 | M24 x 1.5 | 1/2 |
| SFDKO45-3010 | M30 x 2.0 | 5/8 |
| SFDKO45-3012 | M30 x 2.0 | 3/4 |
| SFDKO45-3612 | M36 x 2.0 | 3/4 |
| SFDKO45-5220 | M52 x 2.0 | 1-1/4 |

90° Female Swivel DIN Heavy O-Ring



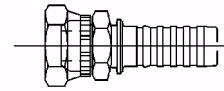
| P/Number | Thread | Hose |
|--------------|-----------|-------|
| SFDKO90-1404 | M14 x 1.5 | 1/4 |
| SFDKO90-1604 | M16 x 1.5 | 1/4 |
| SFDKO90-1804 | M18 x 1.5 | 1/4 |
| SFDKO90-1806 | M18 x 1.5 | 3/8 |
| SFDKO90-2006 | M20 x 1.5 | 3/8 |
| SFDKO90-2206 | M22 x 1.5 | 3/8 |
| SFDKO90-2208 | M22 x 1.5 | 1/2 |
| SFDKO90-2408 | M24 x 1.5 | 1/2 |
| SFDKO90-3010 | M30 x 2.0 | 5/8 |
| SFDKO90-3012 | M30 x 2.0 | 3/4 |
| SFDKO90-3612 | M36 x 2.0 | 3/4 |
| SFDKO90-5220 | M52 x 2.0 | 1-1/4 |

Straight Male DIN Heavy Series



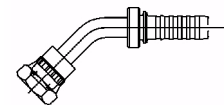
| P/Number | Thread | Hose |
|------------|-----------|-------|
| SMDKS-1404 | M14 x 1.5 | 1/4 |
| SMDKS-1604 | M16 x 1.5 | 1/4 |
| SMDKS-1804 | M18 x 1.5 | 1/4 |
| SMDKS-2006 | M20 x 1.5 | 3/8 |
| SMDKS-2206 | M22 x 1.5 | 3/8 |
| SMDKS-2408 | M24 x 1.5 | 1/2 |
| SMDKS-3010 | M30 x 2.0 | 5/8 |
| SMDKS-3012 | M30 x 2.0 | 3/4 |
| SMDKS-3612 | M36 x 2.0 | 3/4 |
| SMDKS-3616 | M36 x 2.0 | 1 |
| SMDKS-4216 | M42 x 2.0 | 1 |
| SMDKS-5220 | M52 x 2.0 | 1-1/4 |

Straight Female Swivel DIN Light Series Universal Cone Seat 24°/60° Cone



| P/Number | Thread | Hose |
|------------|-----------|-------|
| SFDKL-1204 | M12 x 1.5 | 1/4 |
| SFDKL-1404 | M14 x 1.5 | 1/4 |
| SFDKL-1604 | M16 x 1.5 | 1/4 |
| SFDKL-1606 | M16 x 1.5 | 3/8 |
| SFDKL-1608 | M16 x 1.5 | 1/2 |
| SFDKL-1806 | M18 x 1.5 | 3/8 |
| SFDKL-1808 | M18 x 1.5 | 1/2 |
| SFDKL-2206 | M22 x 1.5 | 3/8 |
| SFDKL-2208 | M22 x 1.5 | 1/2 |
| SFDKL-2210 | M22 x 1.5 | 5/8 |
| SFDKL-2608 | M26 x 1.5 | 1/2 |
| SFDKL-2610 | M26 x 1.5 | 5/8 |
| SFDKL-2612 | M26 x 1.5 | 3/4 |
| SFDKL-3012 | M30 x 2.0 | 3/4 |
| SFDKL-3616 | M36 x 2.0 | 1 |
| SFDKL-3620 | M36 x 2.0 | 1-1/4 |
| SFDKL-4520 | M45 x 2.0 | 1-1/4 |
| SFDKL-5224 | M52 x 2.0 | 1-1/2 |

45° Female Swivel DIN Light Series Universal Cone Seat 24°/60° Cone

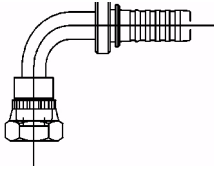


| P/Number | Thread | Hose |
|--------------|-----------|------|
| SFDKL45-1204 | M12 x 1.5 | 1/4 |
| SFDKL45-1404 | M14 x 1.5 | 1/4 |
| SFDKL45-1604 | M16 x 1.5 | 1/4 |
| SFDKL45-1606 | M16 x 1.5 | 3/8 |
| SFDKL45-1806 | M18 x 1.5 | 3/8 |
| SFDKL45-1808 | M18 x 1.5 | 1/2 |
| SFDKL45-2208 | M22 x 1.5 | 1/2 |
| SFDKL45-2608 | M26 x 1.5 | 1/2 |
| SFDKL45-2610 | M26 x 1.5 | 5/8 |
| SFDKL45-3012 | M30 x 2.0 | 3/4 |

Section 3

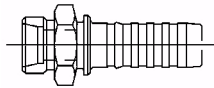
Super-Crimp Couplings - Two Piece

90° Female Swivel DIN Light Series Universal Cone Seat 24°/60° Cone



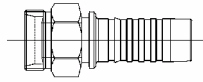
| P/Number | Thread | Hose |
|--------------|-----------|------|
| SFDKL90-1204 | M12 x 1.5 | 1/4 |
| SFDKL90-1404 | M14 x 1.5 | 1/4 |
| SFDKL90-1604 | M16 x 1.5 | 1/4 |
| SFDKL90-1606 | M16 x 1.5 | 3/8 |
| SFDKL90-1806 | M18 x 1.5 | 3/8 |
| SFDKL90-2208 | M22 x 1.5 | 1/2 |
| SFDKL90-2608 | M26 x 1.5 | 1/2 |
| SFDKL90-2610 | M26 x 1.5 | 5/8 |
| SFDKL90-3012 | M30 x 2.0 | 3/4 |
| SFDKL90-3616 | M36 x 2.0 | 1 |

Straight Male DIN Light Series



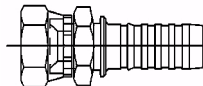
| P/Number | Thread | Hose |
|------------|-----------|------|
| SMDKL-1204 | M12 x 1.5 | 1/4 |
| SMDKL-1404 | M14 x 1.5 | 1/4 |
| SMDKL-1406 | M14 x 1.5 | 3/8 |
| SMDKL-1604 | M16 x 1.5 | 1/4 |
| SMDKL-1606 | M16 x 1.5 | 3/8 |
| SMDKL-1804 | M18 x 1.5 | 1/4 |
| SMDKL-1806 | M18 x 1.5 | 3/8 |
| SMDKL-1808 | M18 x 1.5 | 1/2 |
| SMDKL-2206 | M22 x 1.5 | 3/8 |
| SMDKL-2208 | M22 x 1.5 | 1/2 |
| SMDKL-2608 | M26 x 1.5 | 1/2 |
| SMDKL-2610 | M26 x 1.5 | 5/8 |
| SMDKL-3012 | M30 x 2.0 | 3/4 |
| SMDKL-3616 | M36 x 2.0 | 1 |

FRENCH GAZ Straight Male



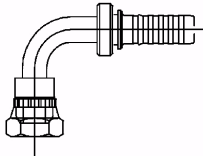
| P/Number | Thread | Hose |
|------------|--------|------|
| SMGAZ-3012 | M30 | 3/4 |
| SMGAZ-3612 | M36 | 3/4 |
| SMGAZ-3616 | M36 | 1 |
| SMGAZ-4516 | M45 | 1 |

FRENCH GAZ Straight Female



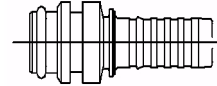
| P/Number | Thread | Hose |
|------------|--------|------|
| SFGAZ-3010 | M30 | 5/8 |
| SFGAZ-3012 | M30 | 3/4 |

FRENCH GAZ 90° Female



| P/Number | Thread | Hose |
|--------------|--------|------|
| SFGAZ90-3010 | M30 | 5/8 |

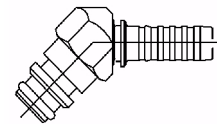
Straight Male Staplelock System



| P/Number | Staple | Hose |
|------------|--------|------|
| SSS-1004 | 3/8 | 1/4 |
| SSS-1006 | 3/8 | 3/8 |
| * SSS-1308 | 1/2 | 1/2 |

90 Duro O Ring &
Anti-extrusion Washer supplied

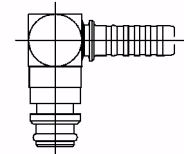
45° Male Staplelock System



| P/Number | Staple | Hose |
|------------|--------|------|
| SSS45-1006 | 3/8 | 3/8 |

90 Duro O Ring &
Anti-extrusion Washer supplied

90° Male Staplelock System



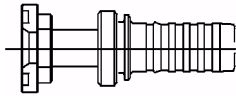
| P/Number | Staple | Hose |
|------------|--------|------|
| SSS90-1006 | 3/8 | 3/8 |

90 Duro O Ring &
Anti-extrusion Washer supplied

Section 3 Super-Crimp Couplings - Two Piece



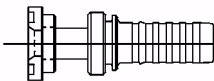
Straight SAE O-Ring Flange Code 61



| P/Number | Flange | Hose |
|----------|--------|-------|
| SFL-0808 | 1/2 | 1/2 |
| SFL-1208 | 3/4 | 1/2 |
| SFL-1212 | 3/4 | 3/4 |
| SFL-1612 | 1 | 3/4 |
| SFL-1616 | 1 | 1 |
| SFL-1620 | 1 | 1-1/4 |
| SFL-2012 | 1-1/4 | 3/4 |
| SFL-2016 | 1-1/4 | 1 |
| SFL-2020 | 1-1/4 | 1-1/4 |
| SFL-2416 | 1-1/2 | 1 |
| SFL-2420 | 1-1/2 | 1-1/4 |
| SFL-2424 | 1-1/2 | 1-1/2 |
| SFL-3224 | 2 | 1-1/2 |
| SFL-3232 | 2 | 2 |
| SFL-4032 | 2-1/2 | 2 |

90 Duro O Ring supplied

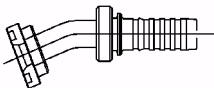
Straight Komatsu O-Ring Flange



| P/Number | Flange | Hose |
|-----------|--------|------|
| SFLK-1008 | 5/8 | 1/2 |
| SFLK-1010 | 5/8 | 5/8 |
| SFLK-1012 | 5/8 | 3/4 |

90 Duro O Ring supplied

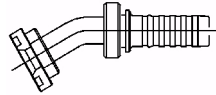
22-1/2° SAE O-Ring Flange Code 61



| P/Number | Flange | Hose |
|------------|--------|-------|
| SFL22-0808 | 1/2 | 1/2 |
| SFL22-1208 | 3/4 | 1/2 |
| SFL22-1212 | 3/4 | 3/4 |
| SFL22-1612 | 1 | 3/4 |
| SFL22-1616 | 1 | 1 |
| SFL22-2016 | 1-1/4 | 1 |
| SFL22-2020 | 1-1/4 | 1-1/4 |
| SFL22-2420 | 1-1/2 | 1-1/4 |
| SFL22-2424 | 1-1/2 | 1-1/2 |
| SFL22-3224 | 2 | 1-1/2 |
| SFL22-3232 | 2 | 2 |

90 Duro O Ring supplied

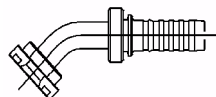
30° SAE Flange Code 61



| P/Number | Flange | Hose |
|--------------|--------|-------|
| * SFL30-0808 | 1/2 | 1/2 |
| SFL30-1208 | 3/4 | 1/2 |
| SFL30-1212 | 3/4 | 3/4 |
| SFL30-1612 | 1 | 3/4 |
| SFL30-1616 | 1 | 1 |
| SFL30S-2016 | 1-1/4 | 1 |
| SFL30S-2020 | 1-1/4 | 1-1/4 |
| SFL30-2420 | 1-1/2 | 1-1/4 |
| SFL30S-2424 | 1-1/2 | 1-1/2 |
| SFL30-3224 | 2 | 1-1/2 |
| SFL30M-3232 | 2 | 2 |

90 Duro O Ring supplied

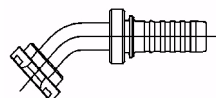
45° SAE Flange Code 61



| P/Number | Flange | Hose |
|-------------|--------|-------|
| SFL45-0808 | 1/2 | 1/2 |
| SFL45-1208 | 3/4 | 1/2 |
| SFL45-1212 | 3/4 | 3/4 |
| SFL45-1612 | 1 | 3/4 |
| SFL45S-1616 | 1 | 1 |
| SFL45S-2016 | 1-1/4 | 1 |
| SFL45S-2020 | 1-1/4 | 1-1/4 |
| SFL45-2420 | 1-1/2 | 1-1/4 |
| SFL45S-2424 | 1-1/2 | 1-1/2 |
| SFL45-3224 | 2 | 1-1/2 |
| SFL45S-3232 | 2 | 2 |
| SFL45-4032 | 2-1/2 | 2 |

90 Duro O Ring supplied

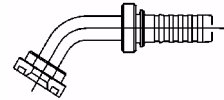
45° Komatsu O-Ring Flange



| P/Number | Flange | Hose |
|-------------|--------|------|
| SFLK45-1008 | 5/8 | 1/2 |
| SFLK45-1010 | 5/8 | 5/8 |
| SFLK45-1012 | 5/8 | 3/4 |

90 Duro O Ring supplied

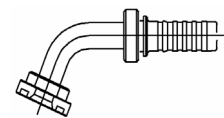
60° SAE O-Ring Flange Code 61



| P/Number | Flange | Hose |
|-------------|--------|-------|
| SFL60-0808 | 1/2 | 1/2 |
| SFL60-1208 | 3/4 | 1/2 |
| SFL60-1212 | 3/4 | 3/4 |
| SFL60-1612 | 1 | 3/4 |
| SFL60M-1616 | 1 | 1 |
| SFL60S-1616 | 1 | 1 |
| SFL60-2016 | 1-1/4 | 1 |
| SFL60S-2020 | 1-1/4 | 1-1/4 |
| SFL60-2420 | 1-1/2 | 1-1/4 |
| SFL60S-2424 | 1-1/2 | 1-1/2 |
| SFL60-3224 | 2 | 1-1/2 |
| SFL60S-3232 | 2 | 2 |

90 Duro O Ring supplied

67° SAE O-Ring Flange Code 61



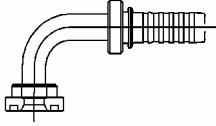
| P/Number | Flange | Hose |
|---------------|--------|-------|
| SFL67-0808 | 1/2 | 1/2 |
| SFL67-1208 | 3/4 | 1/2 |
| SFL67-1212 | 3/4 | 3/4 |
| SFL67-1612 | 1 | 3/4 |
| * SFL67S-1616 | 1 | 1 |
| SFL67S-2016 | 1-1/4 | 1 |
| SFL67S-2020 | 1-1/4 | 1-1/4 |
| SFL67-2420 | 1-1/2 | 1-1/4 |
| SFL67S-2424 | 1-1/2 | 1-1/2 |
| SFL67-3224 | 2 | 1-1/2 |
| SFL67S-3232 | 2 | 2 |

90 Duro O Ring supplied

Section 3

Super-Crimp Couplings - Two Piece

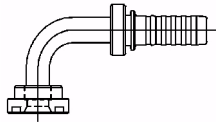
90° SAE Flange Code 61



| P/Number | Flange | Hose |
|-------------|--------|-------|
| SFL90-0808 | 1/2 | 1/2 |
| SFL90-1208 | 3/4 | 1/2 |
| SFL90-1212 | 3/4 | 3/4 |
| SFL90-1612 | 1 | 3/4 |
| SFL90M-1616 | 1 | 1 |
| SFL90-1620 | 1 | 1-1/4 |
| SFL90-2012 | 1-1/4 | 3/4 |
| SFL90S-2016 | 1-1/4 | 1 |
| SFL90S-2020 | 1-1/4 | 1-1/4 |
| SFL90-2024 | 1-1/4 | 1-1/2 |
| SFL90-2416 | 1-1/2 | 1 |
| SFL90S-2420 | 1-1/2 | 1-1/4 |
| SFL90S-2424 | 1-1/2 | 1-1/2 |
| SFL90-3224 | 2 | 1-1/2 |
| SFL90S-3232 | 2 | 2 |
| SFL90-4032 | 2-1/2 | 2 |

90 Duro O Ring supplied

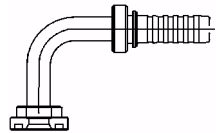
90° Komatsu O-Ring Flange



| P/Number | Flange | Hose |
|-------------|--------|------|
| SFLK90-1008 | 5/8 | 1/2 |
| SFLK90-1012 | 5/8 | 3/4 |

90 Duro O Ring supplied

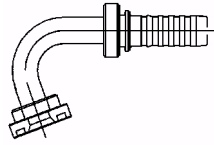
90° SAE Flange Long Drop Code 61



| P/Number | Flange | Hose |
|-----------------|--------|-------|
| SFL90L-1212/96 | 3/4 | 3/4 |
| SFL90L-1212/152 | 3/4 | 3/4 |
| SFL90L-1616/118 | 1 | 1 |
| SFL90L-2016/118 | 1-1/4 | 1 |
| SFL90L-2020/91 | 1-1/4 | 1-1/4 |
| SFL90L-2020/130 | 1-1/4 | 1-1/4 |
| SFL90L-2420/130 | 1-1/2 | 1-1/4 |
| SFL90L-2424/148 | 1-1/2 | 1-1/2 |
| SFL90L-2432/148 | 1-1/2 | 2 |
| SFL90L-2432/230 | 1-1/2 | 2 |
| SFL90L-3232/203 | 2 | 2 |

90 Duro O Ring supplied

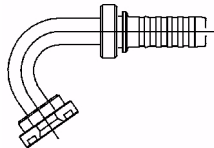
110° SAE Flange Code 61



| P/Number | Flange | Hose |
|-------------|--------|-------|
| SFL110-1212 | 3/4 | 3/4 |
| SFL110-1616 | 1 | 1 |
| SFL110-2016 | 1-1/4 | 1 |
| SFL110-2020 | 1-1/4 | 1-1/4 |
| SFL110-2420 | 1-1/2 | 1-1/4 |
| SFL110-2424 | 1-1/2 | 1-1/2 |
| SFL110-3232 | 2 | 2 |

90 Duro O Ring supplied

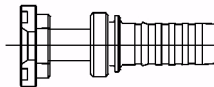
135° SAE Flange Code 61



| P/Number | Flange | Hose |
|-------------|--------|------|
| SFL135-1212 | 3/4 | 3/4 |
| SFL135-2424 | 2 | 2 |
| SFL135-3232 | 2 | 2 |

90 Duro O Ring supplied

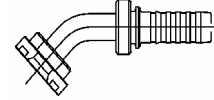
Straight SAE Flange Code 62



| P/Number | Flange | Hose |
|-----------|--------|-------|
| SFLH-0808 | 1/2 | 1/2 |
| SFLH-1212 | 3/4 | 3/4 |
| SFLH-1612 | 1 | 3/4 |
| SFLH-1616 | 1 | 1 |
| SFLH-2016 | 1-1/4 | 1 |
| SFLH-2020 | 1-1/4 | 1-1/4 |
| SFLH-2416 | 1-1/2 | 1 |
| SFLH-2420 | 1-1/2 | 1-1/4 |
| SFLH-2424 | 1-1/2 | 1-1/2 |
| SFLH-3224 | 2 | 1-1/2 |
| SFLH-3232 | 2 | 2 |

90 Duro O Ring supplied

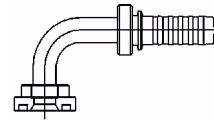
45° SAE Flange Code 62



| P/Number | Flange | Hose |
|--------------|--------|-------|
| SFLH45-0808 | 1/2 | 1/2 |
| SFLH45-1212 | 3/4 | 3/4 |
| SFLH45-1612 | 1 | 3/4 |
| SFLH45M-1616 | 1 | 1 |
| SFLH45S-2016 | 1-1/4 | 1 |
| SFLH45M-2020 | 1-1/4 | 1-1/4 |
| SFLH45M-2024 | 1-1/4 | 1-1/2 |
| SFLH45-2420 | 1-1/2 | 1-1/4 |
| SFLH45-2424 | 1-1/2 | 1-1/2 |
| SFLH45-3224 | 2 | 1-1/2 |
| SFLH45-3232 | 2 | 2 |

90 Duro O Ring supplied

90° SAE Flange Code 62



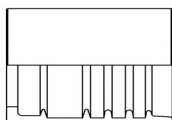
| P/Number | Flange | Hose |
|--------------|--------|-------|
| SFLH90-0808 | 1/2 | 1/2 |
| SFLH90-1212 | 3/4 | 3/4 |
| SFLH90-1216 | | |
| SFLH90-1612 | 1 | 3/4 |
| SFLH90M-1616 | 1 | 1 |
| SFLH90-1620 | 1 | 1-1/4 |
| SFLH90S-2016 | 1-1/4 | 1 |
| SFLH90M-2020 | 1-1/4 | 1-1/4 |
| SFLH90M-2024 | 1-1/4 | 1-1/2 |
| SFLH90-2420 | 1-1/2 | 1-1/4 |
| SFLH90-2424 | 1-1/2 | 1-1/2 |
| SFLH90-3224 | 2 | 1-1/2 |
| SFLH90-3232 | 2 | 2 |

90 Duro O Ring supplied

Section 3 Hammer- & Ezi-Crimp Couplings

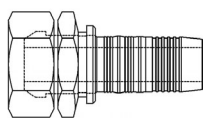


Hammer-Crimp Ferrule Non-Skive Suits EFG4K



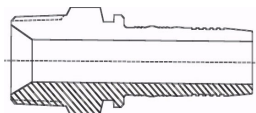
P/Number Hose
FNH-16 1

Straight Female BSPP Hammer Coupling



P/Number Thread Hose
HFB-1616 1 1

Straight Male BSPT Hammer Coupling



P/Number Thread Hose
HMB-1616 1 1

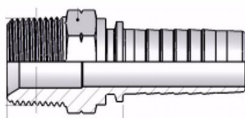
The HAMMER COUPLING is especially designed to withstand very heavy and continuous pressure spikes such as those experienced in hammer systems

Mine Jacking Hose Ferrule Non-Skive Suits STFS00HP-04



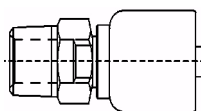
P/Number Hose
S00HP-04 1/4

Straight Male NPT Coupling Suits STFS00HP-04



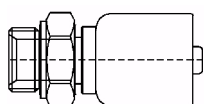
P/Number Thread Hose
S0370T04-06 3/8 1/4

Straight Male BSPT



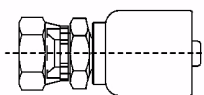
P/Number Thread Hose
EMB-0204 1/8 1/4
EMB-0404 1/4 1/4
EMB-0406 1/4 3/8
EMB-0604 3/8 1/4
EMB-0606 3/8 3/8
EMB-0806 1/2 3/8
EMB-0808 1/2 1/2

Straight Male BSPP Encapsulated Seal Included in the price



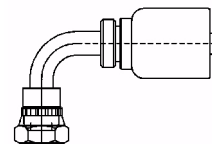
P/Number Thread Hose
EMR-0604 3/8 1/4
EMR-0606 3/8 3/8
EMR-0806 1/2 3/8
EMR-0808 1/2 1/2

Straight Female BSPP Swivel



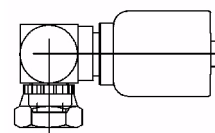
P/Number Thread Hose
EFB-0204H 1/8 1/4
EFB-0404H 1/4 1/4
EFB-0604H 3/8 1/4
EFB-0606H 3/8 3/8
EFB-0806H 1/2 3/8
EFB-0808 1/2 1/2
EFB-0808H 1/2 1/2
EFB-1008 5/8 1/2
EFB-1212H 3/4 3/4

90° Tube Female BSPP Swivel



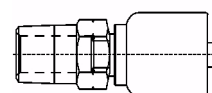
P/Number Thread Hose
EFB90-0404 1/4 1/4
EFB90-0606 3/8 3/8
EFB90-0808 1/2 1/2
EFB90-1212 3/4 3/4

90° Close Female BSPP Swivel



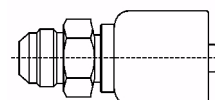
P/Number Thread Hose
EFB90C-0404 1/4 1/4
EFB90C-0604 3/8 1/4
EFB90C-0606 3/8 3/8
EFB90C-0808 1/2 1/2
EFB90C-1212 3/4 3/4

Straight Male NPT Suit Porta-Power Hoses



P/Number Thread Hose
EMNL-0604 3/8 1/4

Straight Male JIC

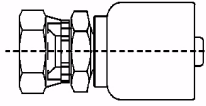


P/Number Thread Hose
EMJ-0704 7/16 1/4
EMJ-0904 9/16 1/4
EMJ-0906 9/16 3/8
EMJ-1204 3/4 1/4
EMJ-1206 3/4 3/8
EMJ-1208 3/4 1/2
EMJ-1408 7/8 1/2
EMJ-1708 1-1/16 1/2

Section 3

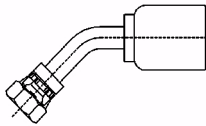
Ezi-Crimp Couplings - One Piece

Straight Female JIC Swivel



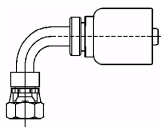
| P/Number | Thread | Hose |
|-----------|--------|------|
| EFJ-0704H | 7/16 | 1/4 |
| EFJ-0804H | 1/2 | 1/4 |
| EFJ-0904H | 9/16 | 1/4 |
| EFJ-0906H | 9/16 | 3/8 |
| EFJ-0908H | 9/16 | 1/2 |
| EFJ-1206H | 3/4 | 3/8 |
| EFJ-1208H | 3/4 | 1/2 |
| EFJ-1406H | 7/8 | 3/8 |
| EFJ-1408H | 7/8 | 1/2 |
| EFJ-1412H | 7/8 | 3/4 |
| EFJ-1708H | 1-1/16 | 1/2 |
| EFJ-1712H | 1-1/16 | 3/4 |
| EFJ-2112H | 1-5/16 | 3/4 |

45° Tube Female JIC Swivel



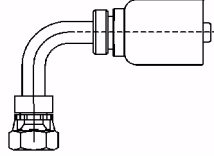
| P/Number | Thread | Hose |
|------------|--------|------|
| EFJ45-0704 | 7/16 | 1/4 |
| EFJ45-0904 | 9/16 | 1/4 |
| EFJ45-0906 | 9/16 | 3/8 |
| EFJ45-1206 | 3/4 | 3/8 |
| EFJ45-1208 | 3/4 | 1/2 |
| EFJ45-1408 | 7/8 | 1/2 |
| EFJ45-1712 | 1-1/16 | 3/4 |

90° Tube Female JIC Swivel



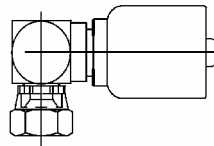
| P/Number | Thread | Hose |
|------------|--------|------|
| EFJ90-0704 | 7/16 | 1/4 |
| EFJ90-0804 | 1/2 | 1/4 |
| EFJ90-0904 | 9/16 | 1/4 |
| EFJ90-0906 | 9/16 | 3/8 |
| EFJ90-1206 | 3/4 | 3/8 |
| EFJ90-1208 | 3/4 | 1/2 |
| EFJ90-1406 | 7/8 | 3/8 |
| EFJ90-1408 | 7/8 | 1/2 |
| EFJ90-1712 | 1-1/16 | 3/4 |
| EFJ90-2112 | 1-5/16 | 3/4 |

90° Tube Female JIC Long Drop Swivel



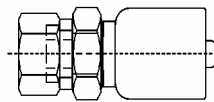
| P/Number | Thread | Hose |
|--------------|--------|------|
| EFJ90L-0704 | 7/16 | 1/4 |
| EFJ90L-0904 | 9/16 | 1/4 |
| EFJ90L-1206 | 3/4 | 3/8 |
| EFJ90L-1208 | 3/4 | 1/2 |
| EFJ90L-1408 | 7/8 | 1/2 |
| EFJ90L-1408Z | 7/8 | 1/2 |

90° Close Female JIC Swivel



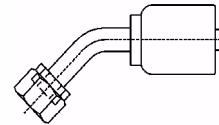
| P/Number | Thread | Hose |
|-------------|--------|------|
| EFJ90C-0704 | 7/16 | 1/4 |
| EFJ90C-0904 | 9/16 | 1/4 |
| EFJ90C-0906 | 9/16 | 3/8 |
| EFJ90C-1206 | 3/4 | 3/8 |
| EFJ90C-1208 | 3/4 | 1/2 |
| EFJ90C-1408 | 7/8 | 1/2 |
| EFJ90C-1712 | 1-1/16 | 3/4 |

Straight Female Flat Faced O-Ring (ORFS) Swivel



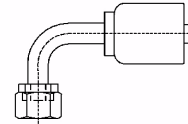
| P/Number | Thread | Hose |
|-----------|--------|------|
| EFFO-0904 | 9/16 | 1/4 |
| EFFO-1104 | 11/16 | 1/4 |
| EFFO-1106 | 11/16 | 3/8 |
| EFFO-1308 | 13/16 | 1/2 |

45° Tube Female Flat Faced O-Ring (ORFS) Swivel



| P/Number | Thread | Hose |
|-------------|--------|------|
| EFFO45-0904 | 9/16 | 1/4 |

90° Tube Female Flat Faced O-Ring (ORFS) Swivel

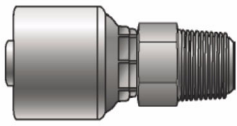


| P/Number | Thread | Hose |
|--------------|--------|------|
| EFFO90S-0904 | 9/16 | 1/4 |
| EFFO90S-1104 | 11/16 | 1/4 |
| EFFO90S-1106 | 11/16 | 3/8 |
| EFFO90S-1308 | 13/16 | 1/2 |

Section 3 MegaCrimp Couplings - One Piece

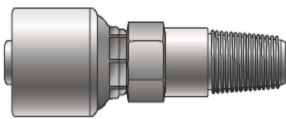


Straight Male NPT



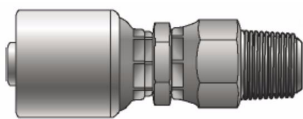
| P/Number | Thread | Hose |
|----------|--------|-------|
| 4G-2MP | 1/8 | 1/4 |
| 4G-4MP | 1/4 | 1/4 |
| 4G-6MP | 3/8 | 1/4 |
| 6G-4MP | 1/4 | 3/8 |
| 6G-6MP | 3/8 | 3/8 |
| 6G-8MP | 1/2 | 3/8 |
| 8G-6MP | 3/8 | 1/2 |
| 8G-8MP | 1/2 | 1/2 |
| 8G-12MP | 3/4 | 1/2 |
| 10G-8MP | 1/2 | 5/8 |
| 10G-12MP | 3/4 | 5/8 |
| 12G-8MP | 1/2 | 3/4 |
| 12G-12MP | 3/4 | 3/4 |
| 12G-16MP | 1 | 3/4 |
| 16G-12MP | 3/4 | 1 |
| 16G-16MP | 1 | 1 |
| 20G-20MP | 1-1/4 | 1-1/4 |

Straight Male NPT Long



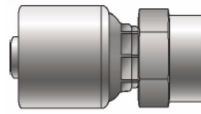
| P/Number | Thread | Hose |
|----------|--------|------|
| 4G-4MPLN | 1/4 | 1/4 |
| 4G-6MPLN | 3/8 | 1/4 |
| 6G-4MPLN | 1/4 | 3/8 |
| 6G-6MPLN | 3/8 | 3/8 |

Straight Male NPT Swivel



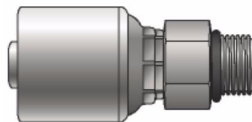
| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-4MPX | 1/4 | 1/4 |
| 6G-6MPX | 3/8 | 3/8 |
| 6G-8MPX | 1/2 | 3/8 |
| 8G-6MPX | 3/8 | 1/2 |
| 8G-8MPX | 1/2 | 1/2 |
| 10G-12MPX | 3/4 | 5/8 |
| 12G-8MPX | 1/2 | 3/4 |
| 12G-12MPX | 3/4 | 3/4 |
| 16G-16MPX | 1 | 1 |

Straight Female NPT



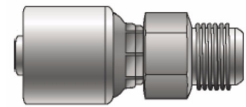
| P/Number | Thread | Hose |
|----------|--------|------|
| 4G-2FP | 1/8 | 1/4 |
| 4G-4FP | 1/4 | 1/4 |
| 4G-6FP | 3/8 | 1/4 |
| 6G-4FP | 1/4 | 3/8 |
| 6G-6FP | 3/8 | 3/8 |
| 6G-8FP | 1/2 | 3/8 |
| 8G-6FP | 3/8 | 1/2 |
| 8G-8FP | 1/2 | 1/2 |
| 12G-12FP | 3/4 | 3/4 |

Straight Male UNO



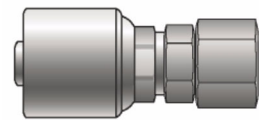
| P/Number | Thread | Hose |
|----------|--------|-------|
| 4G-4MB | 7/16 | 1/4 |
| 4G-5MB | 1/2 | 1/4 |
| 4G-6MB | 9/16 | 1/4 |
| 6G-6MB | 9/16 | 3/8 |
| 6G-8MB | 3/4 | 3/8 |
| 6G-10MB | 7/8 | 3/8 |
| 6G-12MB | 1-1/16 | 3/8 |
| 8G-8MB | 3/4 | 1/2 |
| 8G-10MB | 7/8 | 1/2 |
| 8G-12MB | 1-1/16 | 1/2 |
| 10G-8MB | 3/4 | 5/8 |
| 10G-10MB | 7/8 | 5/8 |
| 10G-12MB | 1-1/16 | 5/8 |
| 12G-12MB | 1-1/16 | 3/4 |
| 12G-14MB | 1-3/16 | 3/4 |
| 12G-16MB | 1-5/16 | 3/4 |
| 16G-14MB | 1-3/16 | 1 |
| 16G-16MB | 1-5/16 | 1 |
| 20G-20MB | 1-5/8 | 1-1/4 |

Straight Male JIC



| P/Number | Thread | Hose |
|----------|--------|-------|
| 4G-4MJ | 7/16 | 1/4 |
| 4G-6MJ | 9/16 | 1/4 |
| 4G-8MJ | 3/4 | 1/4 |
| 6G-6MJ | 9/16 | 3/8 |
| 6G-8MJ | 3/4 | 3/8 |
| 6G-10MJ | 7/8 | 3/8 |
| 8G-8MJ | 3/4 | 1/2 |
| 8G-10MJ | 7/8 | 1/2 |
| 8G-12MJ | 1-1/16 | 1/2 |
| 10G-10MJ | 7/8 | 5/8 |
| 10G-12MJ | 1-1/16 | 5/8 |
| 12G-12MJ | 1-1/16 | 3/4 |
| 12G-14MJ | 1-3/16 | 3/4 |
| 12G-16MJ | 1-5/16 | 3/4 |
| 16G-16MJ | 1-5/16 | 1 |
| 16G-20MJ | 1-5/8 | 1 |
| 20G-20MJ | 1-5/8 | 1-1/4 |

Straight Female JIC Swivel

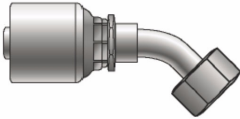


| P/Number | Thread | Hose |
|-----------|--------|-------|
| 4G-4FJX | 7/16 | 1/4 |
| 4G-6FJX | 9/16 | 1/4 |
| 6G-4FJX | 7/16 | 3/8 |
| 6G-6FJX | 9/16 | 3/8 |
| 6G-8FJX | 3/4 | 3/8 |
| 6G-10FJX | 7/8 | 3/8 |
| 8G-6FJX | 9/16 | 1/2 |
| 8G-8FJX | 3/4 | 1/2 |
| 8G-10FJX | 7/8 | 1/2 |
| 8G-12FJX | 1-1/16 | 1/2 |
| 10G-8FJX | 3/4 | 5/8 |
| 10G-10FJX | 7/8 | 5/8 |
| 10G-12FJX | 1-1/16 | 5/8 |
| 10G-14FJX | 1-3/16 | 5/8 |
| 12G-10FJX | 7/8 | 3/4 |
| 12G-12FJX | 1-1/16 | 3/4 |
| 12G-14FJX | 1-3/16 | 3/4 |
| 12G-16FJX | 1-5/16 | 3/4 |
| 16G-12FJX | 1-1/16 | 1 |
| 16G-16FJX | 1-5/16 | 1 |
| 16G-20FJX | 1-5/8 | 1 |
| 20G-20FJX | 1-5/8 | 1-1/4 |



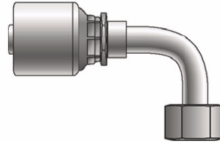
Section 3 MegaCrimp Couplings - One Piece

45° Tube Female JIC Swivel



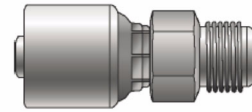
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4G-4FJX45S | 7/16 | 1/4 |
| 4G-6FJX45S | 9/16 | 1/4 |
| 6G-6FJX45 | 9/16 | 3/8 |
| 6G-6FJX45S | 9/16 | 3/8 |
| 6G-8FJX45S | 3/4 | 3/8 |
| 8G-8FJX45S | 3/4 | 1/2 |
| 8G-10FJX45S | 7/8 | 1/2 |
| 10G-10FJX45S | 7/8 | 5/8 |
| 10G-12FJX45S | 1-1/16 | 5/8 |
| 12G-10FJX45S | 7/8 | 3/4 |
| 12G-12FJX45S | 1-1/16 | 3/4 |
| 12G-16FJX45S | 1-5/16 | 3/4 |
| 16G-16FJX45S | 1-5/16 | 1 |
| 20G-20FJX45-035 | 1-5/8 | 1-1/4 |

90° Tube Female JIC Swivel



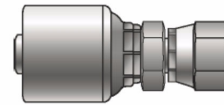
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4G-4FJX90L | 7/16 | 1/4 |
| 4G-4FJX90M | 7/16 | 1/4 |
| 4G-4FJX90S | 7/16 | 1/4 |
| 4G-6FJX90L | 9/16 | 1/4 |
| 4G-6FJX90M | 9/16 | 1/4 |
| 4G-6FJX90S | 9/16 | 1/4 |
| 6G-6FJX90L | 9/16 | 3/8 |
| 6G-6FJX90M | 9/16 | 3/8 |
| 6G-6FJX90S | 9/16 | 3/8 |
| 6G-8FJX90L | 3/4 | 3/8 |
| 6G-8FJX90M | 3/4 | 3/8 |
| 8G-8FJX90S | 3/4 | 1/2 |
| 8G-8FJX90M | 3/4 | 1/2 |
| 8G-8FJX90L | 3/4 | 1/2 |
| 8G-10FJX90L | 7/8 | 1/2 |
| 8G-10FJX90M | 7/8 | 1/2 |
| 8G-10FHX90S | 7/8 | 1/2 |
| 8G-12FJX90S | 1-1/16 | 1/2 |
| 10G-10FJX90-036 | 7/8 | 5/8 |
| 10G-10FJX90L | 7/8 | 5/8 |
| 10G-10FJX90M | 7/8 | 5/8 |
| 10G-12FJX90L | 1-1/16 | 5/8 |
| 10G-12FJX90S | 1-1/16 | 5/8 |
| 12G-10FJX90M | 7/8 | 3/4 |
| 12G-12FJX90L | 1-1/16 | 3/4 |
| 12G-12FJX90M | 1-1/16 | 3/4 |
| 12G-12FJX90S | 1-1/16 | 3/4 |
| 12G-14FJX90L | 1-3/16 | 3/4 |
| 12G-14FJX90S | 1-3/16 | 3/4 |
| 12G-16FJX90S | 1-5/16 | 3/4 |
| 16G-16FJX90L | 1-5/16 | 1 |
| 16G-16FJX90M | 1-5/16 | 1 |
| 16G-16FJX90S | 1-5/16 | 1 |
| 16G-20FJX90S | 1-5/8 | 1 |
| 20G-20FJX90M | 1-5/8 | 1-1/4 |

Straight Male SAE



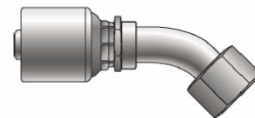
| P/Number | Thread | Hose |
|----------|--------|------|
| 4G-4MS | 7/16 | 1/4 |
| 6G-6MS | 5/8 | 3/8 |
| 8G-8MS | 3/4 | 1/2 |
| 8G-10MS | 7/8 | 1/2 |
| 12G-12MS | 1-1/16 | 3/4 |

Straight Female SAE Swivel



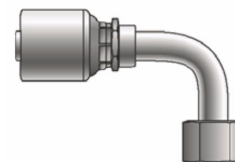
| P/Number | Thread | Hose |
|----------|--------|------|
| 4G-4FSX | 7/16 | 1/4 |
| 4G-6FSX | 5/8 | 1/4 |
| 6G-6FSX | 5/8 | 3/8 |
| 6G-8FSX | 3/4 | 3/8 |
| 8G-8FSX | 3/4 | 1/2 |

45° Tube Female SAE Swivel



| P/Number | Thread | Hose |
|-----------|--------|------|
| 6G-6FSX45 | 5/8 | 3/8 |
| 8G-8FSX45 | 3/4 | 1/2 |

90° Tube Female SAE Swivel

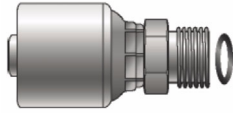


| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-4FSX90 | 7/16 | 1/4 |
| 6G-6FSX90 | 5/8 | 3/8 |
| 6G-8FSX90 | 3/4 | 3/8 |
| 8G-8FSX90 | 3/4 | 1/2 |

Section 3 MegaCrimp Couplings - One Piece

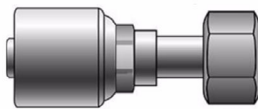


Straight Male Flat Faced O-Ring (ORFS)



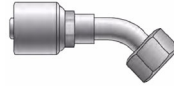
| P/Number | Thread | Hose |
|-------------|---------|-------|
| 4G-4MFFOR | 9/16 | 1/4 |
| 4G-6MFFOR | 11/16 | 1/4 |
| 6G-6MFFOR | 11/16 | 3/8 |
| 6G-8MFFOR | 13/16 | 3/8 |
| 6G-10MFFOR | 1 | 3/8 |
| 8G-8MFFOR | 13/16 | 1/2 |
| 8G-10MFFOR | 1 | 1/2 |
| 10G-10MFFOR | 1 | 5/8 |
| 10G-12MFFOR | 1-3/16 | 5/8 |
| 12G-12MFFOR | 1-3/16 | 3/4 |
| 12G-16MFFOR | 1-7/16 | 3/4 |
| 16G-16MFFOR | 1-7/16 | 1 |
| 16G-20MFFOR | 1-11/16 | 1 |
| 20G-20MFFOR | 1-11/16 | 1-1/4 |

Straight Female Flat Faced O-Ring (ORFS) Swivel



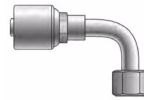
| P/Number | Thread | Hose |
|-------------|---------|-------|
| 4G-4FFORX | 9/16 | 1/4 |
| 4G-6FFORX | 11/16 | 1/4 |
| 6G-6FFORX | 11/16 | 3/8 |
| 6G-8FFORX | 13/16 | 3/8 |
| 8G-6FFORX | 11/16 | 1/2 |
| 8G-8FFORX | 13/16 | 1/2 |
| 8G-10FFORX | 1 | 1/2 |
| 8G-12FFORX | 1-3/16 | 1/2 |
| 10G-10FFORX | 1 | 5/8 |
| 10G-12FFORX | 1-3/16 | 5/8 |
| 12G-10FFORX | 1 | 3/4 |
| 12G-12FFORX | 1-3/16 | 3/4 |
| 12G-16FFORX | 1-7/16 | 3/4 |
| 16G-12FFORX | 1-3/16 | 1 |
| 16G-16FFORX | 1-7/16 | 1 |
| 16G-20FFORX | 1-11/16 | 1 |
| 20G-20FFORX | 1-11/16 | 1-1/4 |

45° Tube Female Flat Faced O-Ring (ORFS) Swivel



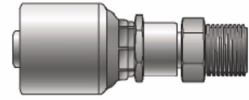
| P/Number | Thread | Hose |
|----------------|---------|-------|
| 4G-4FFORX45S | 9/16 | 1/4 |
| 4G-6FFORX45S | 11/16 | 1/4 |
| 6G-6FFORX45S | 11/16 | 3/8 |
| 6G-8FFORX45S | 13/16 | 3/8 |
| 8G-8FFORX45S | 13/16 | 1/2 |
| 8G-10FFORX45S | 1 | 1/2 |
| 8G-12FFORX45S | 1-3/16 | 1/2 |
| 10G-10FFORX45S | 1 | 5/8 |
| 10G-12FFORX45S | 1-3/16 | 5/8 |
| 12G-10FFORX45S | 1 | 3/4 |
| 12G-12FFORX45S | 1-3/16 | 3/4 |
| 12G-16FFORX45S | 1-7/16 | 3/4 |
| 16G-16FFORX45S | 1-7/16 | 1 |
| 20G-20FFORX45S | 1-11/16 | 1-1/4 |

90° Tube Female Flat Faced O-Ring (ORFS) Swivel



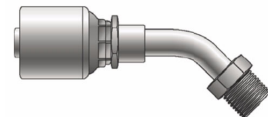
| P/Number | Thread | Hose |
|----------------|---------|-------|
| 4G-4FFORX90L | 9/16 | 1/4 |
| 4G-4FFORX90M | 9/16 | 1/4 |
| 4G-4FFORX90S | 9/16 | 1/4 |
| 4G-6FFORX90L | 11/16 | 1/4 |
| 4G-6FFORX90M | 11/16 | 1/4 |
| 4G-6FFORX90S | 11/16 | 1/4 |
| 6G-4FFORX90S | 9/16 | 3/8 |
| 6G-6FFORX90L | 11/16 | 3/8 |
| 6G-6FFORX90M | 11/16 | 3/8 |
| 6G-6FFORX90S | 11/16 | 3/8 |
| 6G-8FFORX90L | 13/16 | 3/8 |
| 6G-8FFORX90M | 13/16 | 3/8 |
| 6G-8FFORX90S | 13/16 | 3/8 |
| 8G-6FFORX90S | 11/16 | 1/2 |
| 8G-8FFORX90L | 13/16 | 1/2 |
| 8G-8FFORX90M | 13/16 | 1/2 |
| 8G-8FFORX90S | 13/16 | 1/2 |
| 8G-10FFORX90L | 1 | 1/2 |
| 8G-10FFORX90M | 1 | 1/2 |
| 8G-10FFORX90S | 1 | 1/2 |
| 8G-12FFORX90S | 1-3/16 | 1/2 |
| 10G-10FFORX90L | 1 | 5/8 |
| 10G-10FFORX90M | 1 | 5/8 |
| 10G-10FFORX90S | 1 | 5/8 |
| 10G-12FFORX90S | 1-3/16 | 5/8 |
| 12G-10FFORX90S | 1 | 3/4 |
| 12G-12FFORX90L | 1-3/16 | 3/4 |
| 12G-12FFORX90M | 1-3/16 | 3/4 |
| 12G-12FFORX90S | 1-3/16 | 3/4 |
| 12G-16FFORX90S | 1-7/16 | 3/4 |
| 16G-16FFORX90L | 1-7/16 | 1 |
| 16G-16FFORX90M | 1-7/16 | 1 |
| 16G-16FFORX90S | 1-7/16 | 1 |
| 20G-20FFORX90M | 1-11/16 | 1-1/4 |
| 20G-20FFORX90S | 1-11/16 | 1-1/4 |

Straight Male SAE Swivel



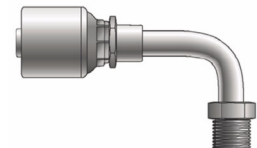
| P/Number | Thread | Hose |
|----------|--------|------|
| 4G-4MIX | 7/16 | 1/4 |
| 4G-5MIX | 1/2 | 1/4 |
| 6G-5MIX | 1/2 | 3/8 |
| 6G-6MIX | 5/8 | 3/8 |
| 6G-7MIX | 11/16 | 3/8 |
| 8G-8MIX | 3/4 | 1/2 |

45° Tube Male SAE Swivel



| P/Number | Thread | Hose |
|-----------|--------|------|
| 6G-4MIX45 | 7/16 | 3/8 |
| 6G-5MIX45 | 1/2 | 3/8 |
| 6G-6MIX45 | 5/8 | 3/8 |
| 6G-7MIX45 | 11/16 | 3/8 |

90° Tube Male SAE Swivel



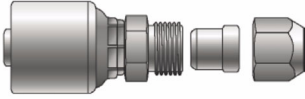
| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-4MIX90 | 7/16 | 1/4 |
| 4G-5MIX90 | 1/2 | 1/4 |
| 6G-4MIX90 | 7/16 | 3/8 |
| 6G-5MIX90 | 1/2 | 3/8 |
| 6G-6MIX90 | 5/8 | 3/8 |
| 6G-7MIX90 | 11/16 | 3/8 |
| 8G-8MIX90 | 3/4 | 1/2 |



Section 3

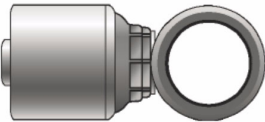
MegaCrimp Couplings - One Piece

Straight Male Flareless Assembly



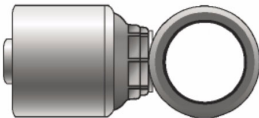
| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-4MFA | 7/16 | 1/4 |
| 4G-5MFA | 1/2 | 1/4 |
| 6G-4MFA | 7/16 | 3/8 |
| 6G-5MFA | 1/2 | 3/8 |
| 6G-6MFA | 9/16 | 3/8 |
| 6G-8MFA | 3/4 | 3/8 |
| 8G-8MFA | 3/4 | 1/2 |
| 8G-10MFA | 7/8 | 1/2 |
| 12G-12MFA | 1-1/16 | 3/4 |
| 16G-16MFA | 1-5/16 | 1 |

Straight BSP Banjo



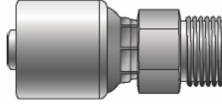
| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-4BSPBJ | 1/4 | 1/4 |
| 6G-6BSPBJ | 3/8 | 3/8 |
| 8G-8BSPBJ | 1/2 | 1/2 |

Straight Metric Banjo



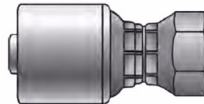
| P/Number | Thread | Hose |
|-----------|--------|------|
| 4G-10DBJ | 10mm | 1/4 |
| 4G-12DBJ | 12mm | 1/4 |
| 4G-14DBJ | 14mm | 1/4 |
| 6G-14DBJ | 14mm | 3/8 |
| 6G-16DBJ | 16mm | 3/8 |
| 8G-22DBJ | 22mm | 1/2 |
| 10G-22DBJ | 22mm | 5/8 |

Straight Male DIN Light Series



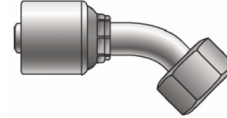
| P/Number | Thread | Hose |
|-----------|-----------|-------|
| 4G-6MDL | M12 x 1.5 | 1/4 |
| 4G-8MDL | M14 x 1.5 | 1/4 |
| 4G-10MDL | M16 x 1.5 | 1/4 |
| 5G-8MDL | M14 x 1.5 | 5/16 |
| 5G-10MDL | M16 x 1.5 | 5/16 |
| 5G-12MDL | M18 x 1.5 | 5/16 |
| 6G-10MDL | M16 x 1.5 | 3/8 |
| 6G-12MDL | M18 x 1.5 | 3/8 |
| 6G-15MDL | M22 x 1.5 | 3/8 |
| 8G-12MDL | M18 x 1.5 | 1/2 |
| 8G-15MDL | M22 x 1.5 | 1/2 |
| 8G-18MDL | M26 x 1.5 | 1/2 |
| 10G-18MDL | M26 x 1.5 | 5/8 |
| 12G-18MDL | M26 x 1.5 | 3/4 |
| 12G-22MDL | M30 x 2.0 | 3/4 |
| 16G-28MDL | M36 x 2.0 | 1 |
| 20G-35MDL | M45 x 2/0 | 1-1/4 |

Straight Female DIN Swivel Light Series



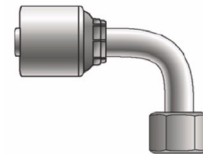
| P/Number | Thread | Hose |
|--------------|-----------|-------|
| 4G-6FDLORX | M12 x 1.5 | 1/4 |
| 4G-8FDLORX | M14 x 1.5 | 1/4 |
| 4G-10FDLORX | M16 x 1.5 | 1/4 |
| 4G-12FDLORX | M18 x 1.5 | 1/4 |
| 5G-10FDLORX | M16 x 1.5 | 5/16 |
| 5G-12FDLORX | M18 x 1.5 | 5/16 |
| 6G-10FDLORX | M16 x 1.5 | 3/8 |
| 6G-12FDLORX | M18 x 1.5 | 3/8 |
| 6G-14FDLORX | M20 x 1.5 | 3/8 |
| 6G-15FDLORX | M22 x 1/5 | 3/8 |
| 8G-12FDLORX | M18 x 1.5 | 1/2 |
| 8G-15FDLORX | M22 x 1.5 | 1/2 |
| 8G-18FDLORX | M26 x 1.5 | 1/2 |
| 10G-18FDLORX | M26 x 1.5 | 5/8 |
| 12G-18FDLORX | M26 x 1.5 | 3/4 |
| 12G-22FDLORX | M30 x 2.0 | 3/4 |
| 16G-28FDLORX | M36 x 2.0 | 1 |
| 20G-35FDLORX | M45 x 2.0 | 1-1/4 |

45° Tube Female DIN Swivel Light Series



| P/Number | Thread | Hose |
|----------------|-----------|-------|
| 4G-6FDLORX45 | M12 x 1.5 | 1/4 |
| 4G-8FDLORX45 | M14 x 1.5 | 1/4 |
| 4G-10FDLORX45 | M16 x 1.5 | 1/4 |
| 4G-12FDLORX45 | M18 x 1.5 | 1/4 |
| 5G-10FDLORX45 | M16 x 1.5 | 5/16 |
| 5G-12FDLORX45 | M18 x 1.5 | 5/16 |
| 6G-10FDLORX45 | M16 x 1.5 | 3/8 |
| 6G-12FDLORX45 | M18 x 1.5 | 3/8 |
| 6G-15FDLORX45 | M22 x 1.5 | 3/8 |
| 8G-12FDLORX45 | M18 x 1.5 | 1/2 |
| 8G-15FDLORX45 | M22 x 1.5 | 1/2 |
| 8G-18FDLORX45 | M26 x 1.5 | 1/2 |
| 10G-18FDLORX45 | M26 x 1.5 | 5/8 |
| 12G-22FDLORX45 | M30 x 2.0 | 3/4 |
| 16G-28FDLORX45 | M36 x 2.0 | 1 |
| 20G-35FDLORX45 | M45 x 2.0 | 1-1/4 |

90° Tube Female DIN Swivel Light Series

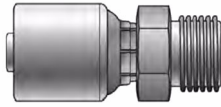


| P/Number | Thread | Hose |
|----------------|-----------|-------|
| 4G-6FDLORX90 | M12 x 1.5 | 1/4 |
| 4G-8FDLORX90 | M14 x 1.5 | 1/4 |
| 4G-10FDLORX90 | M16 x 1.5 | 1/4 |
| 4G-12FDLORX90 | M18 x 1.5 | 1/4 |
| 5G-10FDLORX90 | M16 x 1.5 | 5/16 |
| 5G-12FDLORX90 | M18 x 1.5 | 5/16 |
| 6G-10FDLORX90 | M16 x 1.5 | 3/8 |
| 6G-12FDLORX90 | M18 x 1.5 | 3/8 |
| 6G-15FDLORX90 | M22 x 1.5 | 3/8 |
| 8G-12FDLORX90 | M18 x 1.5 | 1/2 |
| 8G-15FDLORX90 | M22 x 1.5 | 1/2 |
| 8G-18FDLORX90 | M26 x 1.5 | 1/2 |
| 10G-18FDLORX90 | M26 x 1.5 | 5/8 |
| 12G-18FDLORX90 | M26 x 1.5 | 3/4 |
| 12G-22FDLORX90 | M30 x 2.0 | 3/4 |
| 16G-28FDLORX90 | M36 x 2.0 | 1 |
| 20G-35FDLORX90 | M45 x 2.0 | 1-1/4 |

Section 3 MegaCrimp Couplings - One Piece

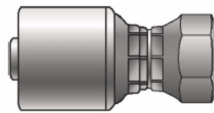


Straight Male DIN Heavy Series



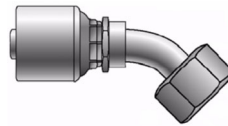
| P/Number | Thread | Hose |
|-----------|-----------|-------|
| 4G-8MDH | M16 x 1.5 | 1/4 |
| 4G-10MDH | M18 x 1.5 | 1/4 |
| 5G-12MDH | M20 x 1.5 | 5/16 |
| 6G-10MDH | M18 x 1.5 | 3/8 |
| 6G-12MDH | M20 x 1.5 | 3/8 |
| 6G-14MDH | M22 x 1.5 | 3/8 |
| 8G-16MDH | M24 x 1.5 | 1/2 |
| 10G-20MDH | M30 x 2.0 | 5/8 |
| 12G-20MDH | M30 x 2.0 | 3/4 |
| 12G-25MDH | M36 x 2.0 | 3/4 |
| 16G-30MDH | M42 x 2.0 | 1 |
| 20G-38MDH | M52 x 2.0 | 1-1/4 |

Straight Female DIN Swivel Heavy Series O-Ring



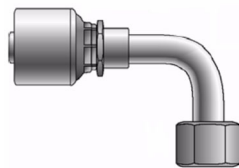
| P/Number | Thread | Hose |
|--------------|-----------|-------|
| 4G-8FDHORX | M16 x 1.5 | 1/4 |
| 4G-10FDHORX | M18 x 1.5 | 1/4 |
| 4G-12FDHORX | M20 x 1.5 | 1/4 |
| 5G-12FDHORX | M20 x 1.5 | 5/16 |
| 6G-10FDHORX | M18 x 1.5 | 3/8 |
| 6G-12FDHORX | M20 x 1.5 | 3/8 |
| 6G-14FDHORX | M22 x 1.5 | 3/8 |
| 8G-12FDHORX | M20 x 1.5 | 1/2 |
| 8G-14FDHORX | M22 x 1.5 | 1/2 |
| 8G-16FDHORX | M24 x 1.5 | 1/2 |
| 8G-20FDHORX | M30 x 2.0 | 1/2 |
| 10G-16FDHORX | M24 x 1.5 | 5/8 |
| 10G-20FDHORX | M30 x 2.0 | 5/8 |
| 12G-20FDHORX | M30 x 2.0 | 3/4 |
| 16G-25FDHORX | M36 x 2.0 | 1 |
| 16G-30FDHORX | M42 x 2.0 | 1 |
| 20G-38FDHORX | M52 x 2.0 | 1-1/4 |

45° Tube Female DIN Swivel Heavy Series O-Ring



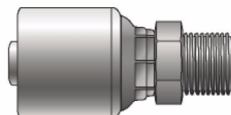
| P/Number | Thread | Hose |
|----------------|-----------|------|
| 4G-8FDHORX45 | M16 x 1.5 | 1/4 |
| 4G-10FDHORX45 | M18 x 1.5 | 1/4 |
| 4G-12FDHORX45 | M20 x 1.5 | 1/4 |
| 5G-12FDHORX45 | M20 x 1.5 | 5/16 |
| 6G-10FDHORX45 | M18 x 1.5 | 3/8 |
| 6G-12FDHORX45 | M20 x 1.5 | 3/8 |
| 6G-14FDHORX45 | M22 x 1.5 | 3/8 |
| 8G-14FDHORX45 | M22 x 1.5 | 1/2 |
| 8G-16FDHORX45 | M24 x 1.5 | 1/2 |
| 10G-20FDHORX45 | M30 x 2.0 | 5/8 |
| 16G-30FDHORX45 | M42 x 2.0 | 1 |

90° Tube Female DIN Swivel Heavy Series O-Ring



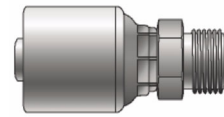
| P/Number | Thread | Hose |
|----------------|-----------|------|
| 4G-8FDHORX90 | M16 x 1.5 | 1/4 |
| 4G-10FDHORX90 | M18 x 1.5 | 1/4 |
| 4G-12FDHORX90 | M20 x 1.5 | 1/4 |
| 5G-12FDHORX90 | M20 x 1.5 | 5/16 |
| 6G-10FDHORX90 | M18 x 1.5 | 3/8 |
| 6G-12FDHORX90 | M20 x 1.5 | 3/8 |
| 6G-14FDHORX90 | M22 x 1.5 | 3/8 |
| 8G-16FDHORX90 | M24 x 1.5 | 1/2 |
| 10G-20FDHORX90 | M30 x 2.0 | 5/8 |
| 12G-20FDHORX90 | M30 x 2.0 | 3/4 |
| 16G-25FDHORX90 | M36 x 2.0 | 1 |
| 16G-30FDHORX90 | M42 x 2.0 | 1 |

Straight Male BSPT



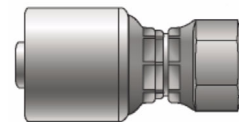
| P/Number | Thread | Hose |
|---------------|--------|------|
| 4G-4MBSPTSP | 1/4 | 1/4 |
| 4G-6MBSPTSP | 3/8 | 1/4 |
| 6G-6MBSPTSP | 3/8 | 3/8 |
| 8G-6MBSPT | 3/8 | 1/2 |
| 8G-8MBSPTSP | 1/2 | 1/2 |
| 10G-10MBSPT | 5/8 | 5/8 |
| 12G-12MBSPTSP | 3/4 | 3/4 |
| 16G-16MBSPTSP | 1 | 1 |

Straight Male BSPP



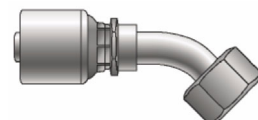
| P/Number | Thread | Hose |
|-------------|--------|-------|
| 4G-4MBSPP | 1/4 | 1/4 |
| 4G-6MBSPP | 3/8 | 1/4 |
| 6G-6MBSPP | 3/8 | 3/8 |
| 6G-8MBSPP | 1/2 | 3/8 |
| 8G-8MBSPP | 1/2 | 1/2 |
| 10G-10MBSPP | 5/8 | 5/8 |
| 10G-12MBSPP | 3/4 | 5/8 |
| 12G-12MBSPP | 3/4 | 3/4 |
| 16G-16MBSPP | 1 | 1 |
| 20G-20MBSPP | 1-1/4 | 1-1/4 |

Straight Female BSPP Swivel



| P/Number | Thread | Hose |
|---------------|--------|-------|
| 4G-2FBSPPX | 1/8 | 1/4 |
| 4G-4FBSPORX | 1/4 | 1/4 |
| 4G-6FBSPORX | 3/8 | 1/4 |
| 6G-6FBSPORX | 3/8 | 3/8 |
| 6G-8FBSPORX | 1/2 | 3/8 |
| 8G-6FBSPORX | 3/8 | 1/2 |
| 8G-8FBSPORX | 1/2 | 1/2 |
| 8G-10FBSPORX | 5/8 | 1/2 |
| 8G-12FBSPORX | 3/4 | 1/2 |
| 10G-10FBSPORX | 5/8 | 5/8 |
| 10G-12FBSPORX | 3/4 | 5/8 |
| 12G-12FBSPORX | 3/4 | 3/4 |
| 12G-16FBSPORX | 1 | 3/4 |
| 16G-16FBSPORX | 1 | 1 |
| 20G-20FBSPORX | 1-1/4 | 1-1/4 |

45° Tube Female BSPP Swivel



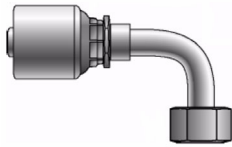
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4G-4FBSPORX45 | 1/4 | 1/4 |
| 6G-6FBSPORX45 | 3/8 | 3/8 |
| 6G-8FBSPORX45 | 1/2 | 3/8 |
| 8G-8FBSPORX45 | 1/2 | 1/2 |
| 8G-10FBSPORX45 | 5/8 | 1/2 |
| 10G-10FBSPORX45 | 5/8 | 5/8 |
| 10G-12FBSPORX45 | 3/4 | 5/8 |
| 12G-12FBSPORX45 | 3/4 | 3/4 |
| 16G-16FBSPORX45 | 1 | 1 |
| 20G-20FBSPORX45 | 1-1/4 | 1-1/4 |



Section 3

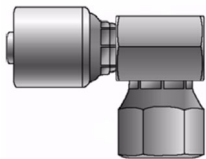
MegaCrimp Couplings - One Piece

90° Tube Female BSPP Swivel



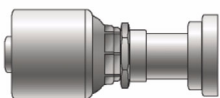
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 4G-4FBSPORX90 | 1/4 | 1/4 |
| 4G-6FBSPORX90M | 3/8 | 1/4 |
| 6G-6FBSPORX90 | 3/8 | 3/8 |
| 6G-8FBSPORX90 | 1/2 | 3/8 |
| 8G-8FBSPORX90 | 1/2 | 1/2 |
| 8G-10FBSPORX90 | 5/8 | 1/2 |
| 10G-10FBSPORX90 | 5/8 | 5/8 |
| 10G-12FBSPORX90 | 3/4 | 5/8 |
| 12G-12FBSPORX90 | 3/4 | 3/4 |
| 12G-16FBSPORX90 | 1 | 3/4 |
| 16G-16FBSPORX90 | 1 | 1 |
| 20G-20FBSPORX90 | 1-1/4 | 1-1/4 |

90° Compact Female BSPP Swivel



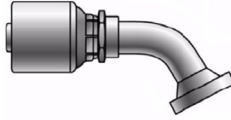
| P/Number | Thread | Hose |
|-------------------|--------|------|
| 4G-4FBSPORX90BL | 1/4 | 1/4 |
| 6G-6FBSPORX90BL | 3/8 | 3/8 |
| 6G-8FBSPORX90BL | 1/2 | 3/8 |
| 8G-8FBSPORX90BL | 1/2 | 1/2 |
| 8G-10FBSPORX90BL | 5/8 | 1/2 |
| 10G-10FBSPORX90BL | 5/8 | 5/8 |
| 12G-12FBSPORX90BL | 3/4 | 3/4 |
| 16G-16FBSPORX90BL | 1 | 1 |

Straight SAE O-Ring Flange Code 61



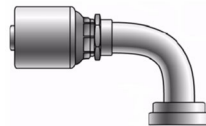
| P/Number | Flange | Hose |
|----------|--------|-------|
| 8G-8FL | 1/2 | 1/2 |
| 8G-12FL | 3/4 | 1/2 |
| 12G-12FL | 3/4 | 3/4 |
| 12G-16FL | 1 | 3/4 |
| 16G-16FL | 1 | 1 |
| 16G-20FL | 1-1/4 | 1 |
| 20G-20FL | 1-1/4 | 1-1/4 |
| 20G-24FL | 1-1/2 | 1-1/4 |

45° Tube SAE O-Ring Flange Code 61



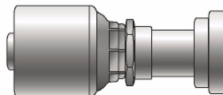
| P/Number | Flange | Hose |
|-------------|--------|-------|
| 12G-12FL45M | 3/4 | 3/4 |
| 12G-16FL45S | 1 | 3/4 |
| 16G-16FL45S | 1 | 1 |
| 16G-20FL45S | 1-1/4 | 1 |
| 20G-20FL45S | 1-1/4 | 1-1/4 |

90° Tube SAE O-Ring Flange Code 61



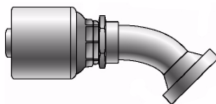
| P/Number | Flange | Hose |
|-------------|--------|-------|
| 8G-8FL90M | 1/2 | 1/2 |
| 8G-12FL90M | 3/4 | 1/2 |
| 12G-12FL90M | 3/4 | 3/4 |
| 12G-16FL90S | 1 | 3/4 |
| 16G-16FL90S | 1 | 1 |
| 16G-20FL90S | 1-1/4 | 1 |
| 20G-20FL90S | 1-1/4 | 1-1/4 |

Straight Komatsu O-Ring Flange



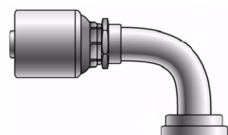
| P/Number | Flange | Hose |
|-----------|--------|------|
| 8G-10FLK | 5/8 | 1/2 |
| 10G-10FLK | 5/8 | 5/8 |

45° Tube Komatsu O-Ring Flange



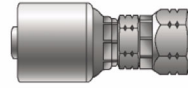
| P/Number | Flange | Hose |
|-------------|--------|------|
| 10G-10FLK45 | 5/8 | 5/8 |

90° Tube Komatsu O-Ring Flange



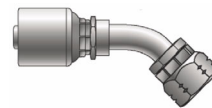
| P/Number | Flange | Hose |
|-------------|--------|------|
| 10G-10FLK90 | 5/8 | 5/8 |

Straight Female Komatsu Metric Swivel



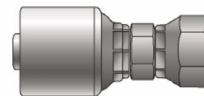
| P/Number | Thread | Hose |
|-----------|-----------|------|
| 4G-4FKX | M14 x 1.5 | 1/4 |
| 6G-6FKX | M18 x 1.5 | 3/8 |
| 8G-8FKX | M22 x 1.5 | 1/2 |
| 10G-10FKX | M24 x 1.5 | 5/8 |
| 12G-12FKX | M30 x 1.5 | 3/4 |
| 16G-16FKX | M33 x 1.5 | 1 |

45° Tube Female Komatsu Metric Swivel



| P/Number | Thread | Hose |
|-----------|-----------|------|
| 8G-8FKX45 | M22 x 1.5 | 1/2 |

Straight Female JIS (BSPP) Swivel



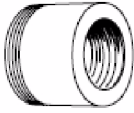
| P/Number | Thread | Hose |
|-------------|--------|------|
| 4G-4FJISX | 1/4 | 1/4 |
| 6G-6FJISX | 3/8 | 3/8 |
| 8G-8FJISX | 1/2 | 1/2 |
| 12G-12FJISX | 3/4 | 3/4 |

Section 3

Global-Crimp GS & GSP Couplings - Two Piece

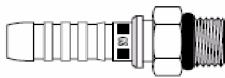


Global-Crimp GS & GSP Series GS1F & GSP1F Ferrule Types



| P/Number | Hose Type | Hose Size |
|-----------|-----------|-----------|
| 6GS1F-1 | Braided | 3/8 |
| 6GS1F-2 | Braided | 3/8 |
| 6GS1F-4 | 4 Spiral | 3/8 |
| 8GS1F-2 | Braided | 1/2 |
| 8GS1F-4 | 4 Spiral | 1/2 |
| 10GS1F-2 | Braided | 5/8 |
| 10GS1F-4 | 4 Spiral | 5/8 |
| 12GS1F-2 | Braided | 3/4 |
| 12GS1F-4 | 4 Spiral | 3/4 |
| 16GS1F-2 | Braided | 1 |
| 16GS1F-4 | 4 Spiral | 1 |
| 20GS1F-2 | Braided | 1-1/4 |
| 20GS1F-4 | 4 Spiral | 1-1/4 |
| 20GS1F-6 | 6 Spiral | 1-1/4 |
| 24GSP1F-4 | 4 Spiral | 1-1/2 |
| 32GSP1F-4 | 4 Spiral | 2 |

Male UNO



| P/Number | Thread | Hose |
|-----------|--------|------|
| 6GS-6MB | 9/16 | 3/8 |
| 12GS-12MB | 1-1/16 | 3/4 |
| 12GS-16MB | 1-5/16 | 3/4 |
| 16GS-16MB | 1-5/16 | 1 |

Male Pipe NPTF 30° Cone Seat



| P/Number | Thread | Hose |
|------------|--------|-------|
| 6GS-6MP | 3/8 | 3/8 |
| 6GS-8MP | 1/2 | 3/8 |
| 8GS-8MP | 1/2 | 1/2 |
| 8GS-12MP | 3/4 | 1/2 |
| 10GS-8MP | 1/2 | 5/8 |
| 10GS-12MP | 3/4 | 5/8 |
| 12GS-12MP | 3/4 | 3/4 |
| 12GS-16MP | 1 | 3/4 |
| 16GS-12MP | 3/4 | 1 |
| 16GS-16MP | 1 | 1 |
| 16GS-20MP | 1-1/4 | 1 |
| 20GS-20MP | 1-1/4 | 1-1/4 |
| 24GSP-24MP | 1-1/2 | 1-1/2 |
| 32GSP-32MP | 2 | 2 |

Male British Standard Pipe Parallel



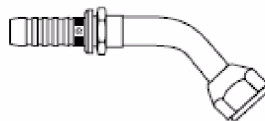
| P/Number | Thread | Hose |
|--------------|--------|-------|
| 6GS-6MBSPP | 3/8 | 3/8 |
| 8GS-8MBSPP | 1/2 | 1/2 |
| 10GS-10MBSPP | 5/8 | 5/8 |
| 10GS-12MBSPP | 3/4 | 5/8 |
| 12GS-12MBSPP | 3/4 | 3/4 |
| 16GS-16MBSPP | 1 | 1 |
| 20GS-20MBSPP | 1-1/4 | 1-1/4 |

Female British Standard Pipe Parallel O-Ring Swivel



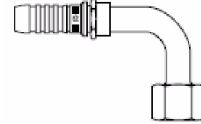
| P/Number | Thread | Hose |
|-----------------|--------|-------|
| 6GS-6FBSPORX | 3/8 | 3/8 |
| 6GS-8FBSPORX | 1/2 | 3/8 |
| 8GS-8FBSPORX | 1/2 | 1/2 |
| 10GS-10FBSPORX | 5/8 | 5/8 |
| 10GS-12FBSPORX | 3/4 | 5/8 |
| 12GS-12FBSPORX | 3/4 | 3/4 |
| 16GS-16FBSPORX | 1 | 1 |
| 16GS-20FBSPORX | 1-1/4 | 1 |
| 20GS-20FBSPORX | 1-1/4 | 1-1/4 |
| 24GSP-24FBSPORX | 1-1/2 | 1-1/2 |
| 32GSP-32FBSPORX | 2 | 2 |

Female British Standard Pipe Parallel O-Ring Swivel 45° Bent Tube



| P/Number | Thread | Hose |
|-------------------|--------|-------|
| 8GS-8FBSPORX45M | 1/2 | 1/2 |
| 10GS-10FBSPORX45 | 5/8 | 5/8 |
| 10GS-12FBSPORX45 | 3/4 | 5/8 |
| 12GS-12FBSPORX45M | 3/4 | 3/4 |
| 16GS-16FBSPORX45M | 1 | 1 |
| 20GS-20FBSPORX45M | 1-1/4 | 1-1/4 |
| 24GSP-24FBSPORX45 | 1-1/2 | 1-1/2 |
| 32GSP-32FBSPORX45 | 2 | 2 |

Female British Standard Pipe Parallel O-Ring Swivel 90° Bent Tube



| P/Number | Thread | Hose |
|-------------------|--------|-------|
| 6GS-6FBSPORX90 | 3/8 | 3/8 |
| 8GS-8FBSPORX90M | 1/2 | 1/2 |
| 10GS-10FBSPORX90 | 5/8 | 5/8 |
| 10GS-12FBSPORX90 | 3/4 | 5/8 |
| 12GS-12FBSPORX90M | 3/4 | 3/4 |
| 16GS-16FBSPORX90 | 1 | 1 |
| 20GS-20FBSPORX90M | 1-1/4 | 1-1/4 |
| 24GSP-24FBSPORX90 | 1-1/2 | 1-1/2 |
| 32GSP-32FBSPORX90 | 2 | 2 |

Female British Standard Pipe Parallel (No O-Ring) Swivel Heavy Series



| P/Number | Thread | Hose |
|-------------------|--------|-------|
| 16GS-16FBSPPX-RB | 1 | 1 |
| 20GS-20FBSPPX-RB | 1-1/4 | 1-1/4 |
| 24GSP-24FBSPPX-RB | 1-1/2 | 1-1/2 |

Male JIC 37° Flare



| P/Number | Thread | Hose |
|------------|--------|-------|
| 6GS-6MJ | 9/16 | 3/8 |
| 6GS-8MJ | 3/4 | 3/8 |
| 6GS-10MJ | 7/8 | 3/8 |
| 8GS-8MJ | 3/4 | 1/2 |
| 8GS-10MJ | 7/8 | 1/2 |
| 10GS-10MJ | 7/8 | 5/8 |
| 10GS-12MJ | 1-1/16 | 5/8 |
| 12GS-12MJ | 1-1/16 | 3/4 |
| 12GS-14MJ | 1-3/16 | 3/4 |
| 12GS-16MJ | 1-5/16 | 3/4 |
| 16GS-16MJ | 1-5/16 | 1 |
| 16GS-20MJ | 1-5/8 | 1 |
| 20GS-20MJ | 1-5/8 | 1-1/4 |
| 24GSP-20MJ | 1-5/8 | 1-1/2 |
| 24GSP-24MJ | 1-7/8 | 1-1/2 |
| 32GSP-32MJ | 2-1/2 | 2 |



Section 3

Global-Crimp GS & GSP Couplings - Two Piece

Female JIC 37° Flare Swivel



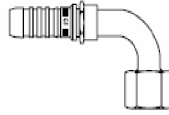
| P/Number | Thread | Hose |
|--------------|--------|-------|
| 6GS-6FJX | 9/16 | 3/8 |
| 6GS-8FJX | 3/4 | 3/8 |
| 8GS-8FJX | 3/4 | 1/2 |
| 8GS-10FJX | 7/8 | 1/2 |
| 8GS-12FJX | 1-1/16 | 1/2 |
| 10GS-10FJXMM | 7/8 | 5/8 |
| 10GS-12FJX | 1-1/16 | 5/8 |
| 12GS-10FJX | 7/8 | 3/4 |
| 12GS-12FJX | 1-1/16 | 3/4 |
| 12GS-14FJX | 1-3/16 | 3/4 |
| 12GS-16FJX | 1-5/16 | 3/4 |
| 16GS-12FJX | 1-1/16 | 1 |
| 16GS-14FJX | 1-3/16 | 1 |
| 16GS-16FJX | 1-5/16 | 1 |
| 16GS-20FJX | 1-5/8 | 1 |
| 20GS-16FJX | 1-5/16 | 1-1/4 |
| 20GS-20FJX | 1-5/8 | 1-1/4 |
| 20GS-24FJX | 1-7/8 | 1-1/4 |
| 24GSP-24FJX | 1-7/8 | 1-1/2 |
| 24GSP-32FJX | 2-1/2 | 1-1/2 |
| 32GSP-32FJX | 2-1/2 | 2 |

Female JIC 37° Flare Swivel 45° Bent Tube



| P/Number | Thread | Hose |
|--------------------|--------|-------|
| 6GS-6FJX45S | 9/16 | 3/8 |
| 6GS-8FJX45S | 3/4 | 3/8 |
| 8GS-8FJX45S | 3/4 | 1/2 |
| 8GS-10FJX45S | 7/8 | 1/2 |
| 10GS-10FJXMM45-018 | 7/8 | 5/8 |
| 10GS-12FJX45S | 1-1/16 | 5/8 |
| 12GS-12FJX45S | 1-1/16 | 3/4 |
| 12GS-16FJX45S | 1-5/16 | 3/4 |
| 16GS-16FJX45S | 1-5/16 | 1 |
| 16GS-20FJX45S | 1-5/8 | 1 |
| 20GS-20FJX45-038 | 1-5/8 | 1-1/4 |
| 24GSP-24FJX45-050 | 1-7/8 | 1-1/2 |

Female JIC 37° Flare Swivel 90° Bent Tube



| P/Number | Thread | Hose |
|--------------------|--------|-------|
| 6GS-6FJX90S | 9/16 | 3/8 |
| 6GS-6FJX90L | 9/16 | 3/8 |
| 6GS-8FJX90M | 3/4 | 3/8 |
| 8GS-8FJX90S | 3/4 | 1/2 |
| 8GS-8FJX90M | 3/4 | 1/2 |
| 8GS-8FJX90L | 3/4 | 1/2 |
| 8GS-10FJX90S | 7/8 | 1/2 |
| 8GS-10FJX90M | 7/8 | 1/2 |
| 8GS-10FJX90L | 7/8 | 1/2 |
| 8GS-12FJX90S | 1-1/16 | 1/2 |
| 10GS-10FJXMM90-036 | 7/8 | 5/8 |
| 10GS-12FJX90M | 1-1/16 | 5/8 |
| 12GS-12FJX90S | 1-1/16 | 3/4 |
| 12GS-12FJX90M | 1-1/16 | 3/4 |
| 12GS-12FJX90L | 1-1/16 | 3/4 |
| 12GS-14FJX90-060 | 1-3/16 | 3/4 |
| 12GS-16FJX90S | 1-5/16 | 3/4 |
| 12GS-16FJX90M | 1-5/16 | 3/4 |
| 16GS-16FJX90S | 1-5/16 | 1 |
| 16GS-16FJX90M | 1-5/16 | 1 |
| 16GS-16FJX90L | 1-5/16 | 1 |
| 16GS-20FJX90L | 1-5/8 | 1 |
| 20GS-20FJX90S | 1-5/8 | 1-1/4 |
| 20GS-20FJX90M | 1-5/8 | 1-1/4 |
| 20GS-20FJX90L | 1-5/8 | 1-1/4 |
| 24GSP-24FJX90-118 | 1-7/8 | 1-1/2 |
| 24GSP-24FJX90-089 | 1-7/8 | 1-1/2 |
| 32GSP-32FJX90M | 2-1/2 | 2 |

Male Flat Face O-Ring



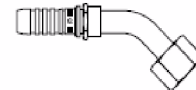
| P/Number | Thread | Hose |
|--------------|---------|-------|
| 6GS-6MFFOR | 11/16 | 3/8 |
| 8GS-8MFFOR | 13/16 | 1/2 |
| 8GS-10MFFOR | 1 | 1/2 |
| 12GS-12MFFOR | 1-3/16 | 3/4 |
| 12GS-16MFFOR | 1-7/16 | 3/4 |
| 16GS-16MFFOR | 1-7/16 | 1 |
| 16GS-20MFFOR | 1-11/16 | 1 |
| 20GS-20MFFOR | 1-11/16 | 1-1/4 |

Female Flat Face Swivel



| P/Number | Thread | Hose |
|---------------|---------|-------|
| 6GS-6FFORX | 11/16 | 3/8 |
| 6GS-8FFORX | 13/16 | 3/8 |
| 8GS-8FFORX | 13/16 | 1/2 |
| 8GS-10FFORX | 1 | 1/2 |
| 8GS-12FFORX | 1-3/16 | 1/2 |
| 10GS-10FFORX | 1 | 5/8 |
| 10GS-12FFORX | 1-3/16 | 5/8 |
| 12GS-10FFORX | 1 | 3/4 |
| 12GS-12FFORX | 1-3/16 | 3/4 |
| 12GS-16FFORX | 1-7/16 | 3/4 |
| 16GS-12FFORX | 1-3/16 | 1 |
| 16GS-16FFORX | 1-7/16 | 1 |
| 16GS-20FFORX | 1-11/16 | 1 |
| 20GS-20FFORX | 1-11/16 | 1-1/4 |
| 24GSP-24FFORX | 2 | 1-1/2 |

Female Flat Face Swivel 45° Bent Tube



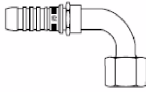
| P/Number | Thread | Hose |
|---------------------|---------|-------|
| 6GS-6FFORX45S | 11/16 | 3/8 |
| 6GS-8FFORX45S | 13/16 | 3/8 |
| 8GS-8FFORX45S | 13/16 | 1/2 |
| 8GS-10FFORX45S | 1 | 1/2 |
| 10GS-10FFORX45S | 1 | 5/8 |
| 12GS-12FFORX45S | 1-3/16 | 3/4 |
| 12GS-16FFORX45S | 1-7/16 | 3/4 |
| 16GS-16FFORX45S | 1-7/16 | 1 |
| 16GS-20FFORX45S | 1-11/16 | 1 |
| 20GS-20FFORX45-032 | 1-11/16 | 1-1/4 |
| 24GSP-24FFORX45-036 | 2 | 1-1/2 |

Section 3

Global-Crimp GS & GSP Couplings - Two Piece



Female Flat Face Swivel 90° Bent Tube



| P/Number | Thread | Hose |
|------------------|---------|-------|
| 6GS-6FFORX90S | 11/16 | 3/8 |
| 6GS-6FFORX90L | 11/16 | 3/8 |
| 6GS-8FFORX90M | 13/16 | 3/8 |
| 8GS-8FFORX90S | 13/16 | 1/2 |
| 8GS-8FFORX90M | 13/16 | 1/2 |
| 8GS-8FFORX90-083 | 13/16 | 1/2 |
| 8GS-10FFORX90M | 1 | 1/2 |
| 10GS-10FFORX90M | 1 | 5/8 |
| 10GS-10FFORX90L | 1 | 5/8 |
| 12GS-10FFORX90S | 1 | 3/4 |
| 12GS-12FFORX90S | 1-3/16 | 3/4 |
| 12GS-12FFORX90M | 1-3/16 | 3/4 |
| 12GS-12FFORX90L | 1-3/16 | 3/4 |
| 12GS-16FFORX90S | 1-7/16 | 3/4 |
| 12GS-16FFORX90L | 1-7/16 | 3/4 |
| 16GS-16FFORX90S | 1-7/16 | 1 |
| 16GS-16FFORX90M | 1-7/16 | 1 |
| 16GS-16FFORX90L | 1-7/16 | 1 |
| 16GS-20FFORX90S | 1-11/16 | 1 |
| 16GS-20FFORX90M | 1-11/16 | 1 |
| 20GS-20FFORX90S | 1-11/16 | 1-1/4 |
| 20GS-20FFORX90M | 1-11/16 | 1-1/4 |
| 20GS-20FFORX90L | 1-11/16 | 1-1/4 |
| 24GSP-24FFORX90M | 2 | 1-1/2 |
| 24GSP-24FFORX90L | 2 | 1-1/2 |

Male 24° Cone - Light Series



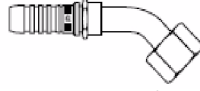
| P/Number | Thread | Hose |
|------------|-----------|------|
| 6GS-12MDL | M18 x 1.5 | 3/8 |
| 8GS-15MDL | M22 x 1.5 | 1/2 |
| 12GS-22MDL | M30 x 2.0 | 3/4 |
| 16GS-28MDL | M36 x 2.0 | 1 |

Female DIN 24° Cone Swivel Light Series With O-Ring



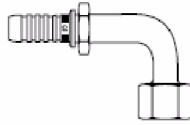
| P/Number | Thread | Hose |
|----------------|-----------|-------|
| 6GS-12FDLORX | M18 x 1.5 | 3/8 |
| 8GS-15FDLORX | M22 x 1.5 | 1/2 |
| 10GS-18FDLORX | M26 x 1.5 | 5/8 |
| 12GS-22FDLORX | M30 x 2.0 | 3/4 |
| 12GS-28FDLORX | M36 x 2.0 | 3/4 |
| 16GS-28FDLORX | M36 x 2.0 | 1 |
| 20GS-35FDLORX | M45 x 2.0 | 1-1/4 |
| 24GSP-42FDLORX | M52 x 2.0 | 1-1/2 |

Female DIN 24° Cone Swivel Light Series With O-Ring 45° Bent Tube



| P/Number | Thread | Hose |
|-----------------|-----------|------|
| 8GS-15FDLORX45 | M22 x 1.5 | 1/2 |
| 12GS-22FDLORX45 | M30 x 2.0 | 3/4 |
| 16GS-28FDLORX45 | M36 x 2.0 | 1 |

Female DIN 24° Cone Swivel Light Series With O-Ring 90° Bent Tube



| P/Number | Thread | Hose |
|------------------|--------|-------|
| 6GS-12FDLORX90 | M18 | 3/8 |
| 8GS-15FDLORX90 | M22 | 1/2 |
| 10GS-18FDLORX90 | M26 | 5/8 |
| 12GS-22FDLORX90M | M30 | 3/4 |
| 16GS-28FDLORX90M | M36 | 1 |
| 24GSP-42FDLORX90 | M52 | 1-1/2 |

Male 24° Cone - Heavy Series



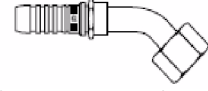
| P/Number | Thread | Hose |
|------------|-----------|-------|
| 6GS-12MDH | M20 x 1.5 | 3/8 |
| 6GS-14MDH | M22 x 1.5 | 3/8 |
| 8GS-16MDH | M24 x 1.5 | 1/2 |
| 10GS-20MDH | M30 x 2.0 | 5/8 |
| 12GS-20MDH | M30 x 2.0 | 3/4 |
| 12GS-25MDH | M36 x 2.0 | 3/4 |
| 12GS-30MDH | M42 x 2.0 | 3/4 |
| 16GS-25MDH | M36 x 2.0 | 1 |
| 16GS-30MDH | M42 x 2.0 | 1 |
| 20GS-38MDH | M52 x .20 | 1-1/4 |

Female DIN 24° Cone Swivel Heavy Series With O-Ring



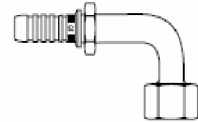
| P/Number | Thread | Hose |
|----------------|-----------|-------|
| 6GS-12FDHORX | M20 x 1.5 | 3/8 |
| 6GS-14FDHORX | M22 x 1.5 | 3/8 |
| 8GS-12FDHORX | M20 x 1.5 | 1/2 |
| 8GS-14FDHORX | M22 x 1.5 | 1/2 |
| 8GS-16FDHORX | M24 x 1.5 | 1/2 |
| 8GS-20FDHORX | M30 x 2.0 | 1/2 |
| 10GS-20FDHORX | M30 x 2.0 | 5/8 |
| 10GS-25FDHORX | M36 x 2.0 | 5/8 |
| 12GS-20FDHORX | M30 x 2.0 | 3/4 |
| 12GS-25FDHORX | M36 x 2.0 | 3/4 |
| 16GS-25FDHORX | M36 x 2.0 | 1 |
| 16GS-30FDHORX | M42 x 2.0 | 1 |
| 20GS-38FDHORX | M52 x 2.0 | 1-1/4 |
| 24GSP-38FDHORX | M52 x 2.0 | 1-1/2 |

Female DIN 24° Cone Swivel Heavy Series With O-Ring 45° Bent Tube



| P/Number | Thread | Hose |
|------------------|-----------|-------|
| 6GS-12FDHORX45 | M20 x 1.5 | 3/8 |
| 6GS-14FDHORX45 | M22 x 1.5 | 3/8 |
| 8GS-16FDHORX45 | M24 x 1.5 | 1/2 |
| 10GS-20FDHORX45 | M30 x 2.0 | 5/8 |
| 12GS-20FDHORX45 | M30 x 2.0 | 3/4 |
| 12GS-25FDHORX45M | M36 x 2.0 | 3/4 |
| 16GS-25FDHORX45M | M36 x 2.0 | 1 |
| 16GS-30FDHORX45 | M42 x 2.0 | 1 |
| 20GS-38FDHORX45M | M52 x 2.0 | 1-1/4 |

Female DIN 24° Cone Swivel Heavy Series With O-Ring 90° Bent Tube



| P/Number | Thread | Hose |
|------------------|--------|-------|
| 6GS-12FDHORX90 | M20 | 3/8 |
| 6GS-14FDHORX90 | M22 | 3/8 |
| 8GS-16FDHORX90M | M24 | 1/2 |
| 10GS-20FDHORX90 | M30 | 5/8 |
| 12GS-20FDHORX90 | M30 | 3/4 |
| 12GS-25FDHORX90M | M36 | 3/4 |
| 16GS-25FDHORX90 | M36 | 1 |
| 16GS-30FDHORX90M | M42 | 1 |
| 20GS-38FDHORX90M | M52 | 1-1/4 |



Section 3

Global-Crimp GS & GSP Couplings - Two Piece

Code 61 O-Ring Flange



| P/Number | Flange | Hose |
|------------|--------|-------|
| 6GS-8FL | 1/2 | 3/8 |
| 8GS-8FL | 1/2 | 1/2 |
| 8GS-12FL | 3/4 | 1/2 |
| 8GS-10FLK | 5/8 | 1/2 |
| 10GS-10FLK | 5/8 | 5/8 |
| 10GS-12FL | 3/4 | 5/8 |
| 12GS-8FL | 1/2 | 3/4 |
| 12GS-10FLK | 5/8 | 3/4 |
| 12GS-12FL | 3/4 | 3/4 |
| 12GS-16FL | 1 | 3/4 |
| 12GS-20FL | 1-1/4 | 3/4 |
| 16GS-12FL | 3/4 | 1 |
| 16GS-16FL | 1 | 1 |
| 16GS-20FL | 1-1/4 | 1 |
| 16GS-24FL | 1-1/2 | 1 |
| 20GS-16FL | 1 | 1-1/4 |
| 20GS-20FL | 1-1/4 | 1-1/4 |
| 20GS-24FL | 1-1/2 | 1-1/4 |
| 24GSP-20FL | 1-1/4 | 1-1/2 |
| 24GSP-24FL | 1-1/2 | 1-1/2 |
| 24GSP-32FL | 2 | 1-1/2 |
| 32GSP-24FL | 1-1/2 | 2 |
| 32GSP-32FL | 2 | 2 |
| 32GSP-40FL | 2-1/2 | 2 |

Code 61 O-Ring Flange 22.5° Bent Tube



| P/Number | Flange | Hose |
|---------------|--------|-------|
| 8GS-8FL22M | 1/2 | 1/2 |
| 12GS-12FL22M | 3/4 | 3/4 |
| 12GS-16FL22M | 1 | 3/4 |
| 16GS-16FL22M | 1 | 1 |
| 16GS-20FL22M | 1-1/4 | 1 |
| 20GS-20FL22M | 1-1/4 | 1-1/4 |
| 20GS-24FL22M | 1-1/2 | 1-1/4 |
| 24GSP-24FL22M | 1-1/2 | 1-1/2 |
| 24GSP-32FL22M | 2 | 1-1/2 |
| 32GSP-32FL22M | 2 | 2 |

Code 61 O-Ring Flange 30° Bent Tube



| P/Number | Flange | Hose |
|---------------|--------|-------|
| 8GS-12FL30M | 3/4 | 1/2 |
| 12GS-12FL30M | 3/4 | 3/4 |
| 12GS-16FL30M | 1 | 3/4 |
| 16GS-16FL30M | 1 | 1 |
| 16GS-20FL30M | 1-1/4 | 1 |
| 20GS-20FL30M | 1-1/4 | 1-1/4 |
| 20GS-24FL30M | 1-1/2 | 1-1/4 |
| 24GSP-24FL30S | 1-1/2 | 1-1/2 |
| 24GSP-32FL30M | 2 | 1-1/2 |
| 32GSP-32FL30M | 2 | 2 |

Code 61 O-Ring Flange 45° Bent Tube



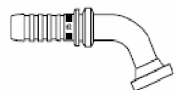
| P/Number | Flange | Hose |
|------------------|--------|-------|
| 6GS-8FL45M | 1/2 | 3/8 |
| 8GS-8FL45M | 1/2 | 1/2 |
| 8GS-12FL45M | 3/4 | 1/2 |
| 10GS-10FLK45-026 | 5/8 | 5/8 |
| 10GS-12FL45M | 3/4 | 5/8 |
| 12GS-12FL45M | 3/4 | 3/4 |
| 12GS-16FL45S | 1 | 3/4 |
| 16GS-16FL45M | 1 | 1 |
| 16GS-20FL45M | 1-1/4 | 1 |
| 20GS-16FL45M | 1 | 1-1/4 |
| 20GS-20FL45S | 1-1/4 | 1-1/4 |
| 20GS-24FL45S | 1-1/2 | 1-1/4 |
| 24GSP-24FL45S | 1-1/2 | 1-1/2 |
| 24GSP-32FL45S | 2 | 1-1/2 |
| 32GSP-24FL45S | 1-1/2 | 2 |
| 32GSP-32FL45-066 | 2 | 2 |

Code 61 O-Ring Flange 60° Bent Tube



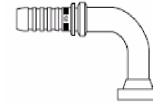
| P/Number | Flange | Hose |
|---------------|--------|-------|
| 8GS-8FL60M | 1/2 | 1/2 |
| 12GS-12FL60M | 3/4 | 3/4 |
| 12GS-16FL60M | 1 | 3/4 |
| 16GS-16FL60M | 1 | 1 |
| 16GS-20FL60M | 1-1/4 | 1 |
| 20GS-20FL60M | 1-1/4 | 1-1/4 |
| 20GS-24FL60M | 1-1/2 | 1-1/4 |
| 24GSP-24FL60S | 1-1/2 | 1-1/2 |
| 24GSP-32FL60S | 2 | 1-1/2 |
| 32GSP-32FL60S | 2 | 2 |

Code 61 O-Ring Flange 67.5° Bent Tube



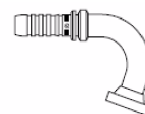
| P/Number | Flange | Hose |
|---------------|--------|-------|
| 12GS-12FL67M | 3/4 | 3/4 |
| 12GS-16FL67M | 1 | 3/4 |
| 16GS-16FL67M | 1 | 1 |
| 16GS-20FL67M | 1-1/4 | 1 |
| 20GS-20FL67M | 1-1/4 | 1-1/4 |
| 24GSP-24FL67S | 1-1/2 | 1-1/2 |
| 24GSP-32FL67S | 2 | 1-1/2 |
| 32GSP-32FL67S | 2 | 2 |

Code 61 O-Ring Flange 90° Bent Tube



| P/Number | Flange | Hose |
|------------------|--------|-------|
| 6GS-8FL90M | 1/2 | 3/8 |
| 8GS-8FL90M | 1/2 | 1/2 |
| 8GS-8FL90L | 1/2 | 1/2 |
| 8GS-12FL90M | 3/4 | 1/2 |
| 10GS-10FLK90-055 | 5/8 | 5/8 |
| 10GS-12FL90M | 3/4 | 5/8 |
| 12GS-8FL90-050 | 1/2 | 3/4 |
| 12GS-10FLK90-055 | 5/8 | 3/4 |
| 12GS-12FL90M | 3/4 | 3/4 |
| 12GS-12FL90-100 | 3/4 | 3/4 |
| 12GS-12FL90-125 | 3/4 | 3/4 |
| 12GS-16FL90S | 1 | 3/4 |
| 12GS-16FL90M | 1 | 3/4 |
| 12GS-16FL90-080 | 1 | 3/4 |
| 12GS-16FL90-178 | 1 | 3/4 |
| 12GS-20FL90-054 | 1-1/4 | 3/4 |
| 12GS-20FL90-125 | 1-1/4 | 3/4 |
| 16GS-12FL90 | 3/4 | 1 |
| 16GS-16FL90S | 1 | 1 |
| 16GS-16FL90M | 1 | 1 |
| 16GS-16FL90-120 | 1 | 1 |
| 16GS-16FL90-210 | 1 | 1 |
| 16GS-20FL90S | 1-1/4 | 1 |
| 16GS-20FL90M | 1-1/4 | 1 |
| 16GS-20FL90-120 | 1-1/4 | 1 |
| 16GS-24FL90S | 1-1/2 | 1 |
| 16GS-24FL90-060 | 1-1/2 | 1 |
| 20GS-16FL90M | 1 | 1-1/4 |
| 20GS-20FL90S | 1-1/4 | 1-1/4 |
| 20GS-20FL90M | 1-1/4 | 1-1/4 |
| 20GS-20FL90-168 | 1-1/4 | 1-1/4 |
| 20GS-24FL90S | 1-1/2 | 1-1/4 |
| 20GS-24FL90-118 | 1-1/2 | 1-1/4 |
| 24GSP-20FL90S | 1-1/4 | 1-1/2 |
| 24GSP-24FL90S | 1-1/2 | 1-1/2 |
| 24GSP-24FL90M | 1-1/2 | 1-1/2 |
| 24GSP-24FL90-148 | 1-1/2 | 1-1/2 |
| 24GSP-32FL90-080 | 2 | 1-1/2 |
| 24GSP-32FL90-170 | 2 | 1-1/2 |
| 32GSP-24FL90S | 1-1/2 | 2 |
| 32GSP-32FL90-114 | 2 | 2 |
| 32GSP-32FL90-165 | 2 | 2 |
| 32GSP-32FL90-200 | 2 | 2 |
| 32GSP-40FL90-110 | 2-1/2 | 2 |

Code 61 O-Ring Flange 110° Bent Tube



| P/Number | Flange | Hose |
|-------------------|--------|-------|
| 12GS-12FL110-064 | 3/4 | 3/4 |
| 16GS-16FL110-073 | 1 | 1 |
| 20GS-20FL110-080 | 1-1/4 | 1-1/4 |
| 20GS-24FL110-080 | 1-1/2 | 1-1/4 |
| 24GSP-24FL110-094 | 1-1/2 | 1-1/2 |
| 32GSP-32FL110-140 | 2 | 2 |

Section 3

Global-Crimp GS & GSP Couplings - Two Piece



Code 62 O-Ring Flange Heavy



| P/Number | Flange | Hose |
|-------------|--------|-------|
| 8GS-8FLH | 1/2 | 1/2 |
| 8GS-12FLH | 3/4 | 1/2 |
| 10GS-8FLH | 1/2 | 5/8 |
| 12GS-12FLH | 3/4 | 3/4 |
| 12GS-16FLH | 1 | 3/4 |
| 16GS-12FLH | 3/4 | 1 |
| 16GS-16FLH | 1 | 1 |
| 16GS-20FLH | 1-1/4 | 1 |
| 20GS-16FLH | 1 | 1-1/4 |
| 20GS-20FLH | 1-1/4 | 1-1/4 |
| 20GS-24FLH | 1-1/2 | 1-1/4 |
| 24GSP-24FLH | 1-1/2 | 1-1/2 |
| 24GSP-32FLH | 2 | 1-1/2 |
| 32GSP-32FLH | 2 | 2 |

Code 62 O-Ring Flange Heavy 22.5° Bent Tube



| P/Number | Flange | Hose |
|---------------|--------|-------|
| 16GS-16FLH22M | 1 | 1 |
| 20GS-20FLH22M | 1-1/4 | 1-1/4 |
| 20GS-24FLH22M | 1-1/2 | 1-1/4 |

Code 62 O-Ring Flange Heavy 30° Bent Tube



| P/number | Flange | Hose |
|---------------|--------|-------|
| 12GS-12FLH30M | 3/4 | 3/4 |
| 16GS-16FLH30M | 1 | 1 |
| 16GS-20FLH30M | 1-1/4 | 1 |
| 20GS-20FLH30M | 1-1/4 | 1-1/4 |
| 20GS-24FLH30M | 1-1/2 | 1-1/4 |

Code 62 O-Ring Flange Heavy 45° Bent Tube



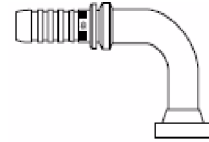
| P/number | Flange | Hose |
|-------------------|--------|-------|
| 8GS-8FLH45M | 1/2 | 1/2 |
| 8GS-12FLH45M | 3/4 | 1/2 |
| 10GS-8FLH45M | 1/2 | 5/8 |
| 10GS-12FLH45M | 3/4 | 5/8 |
| 12GS-12FLH45M | 3/4 | 3/4 |
| 12GS-16FLH45M | 1 | 3/4 |
| 16GS-12FLH45M | 3/4 | 1 |
| 16GS-16FLH45M | 1 | 1 |
| 16GS-20FLH45M | 1-1/4 | 1 |
| 20GS-16FLH45M | 1 | 1-1/4 |
| 20GS-20FLH45M | 1-1/4 | 1-1/4 |
| 20GS-24FLH45M | 1-1/2 | 1-1/4 |
| 24GSP-24FLH45M | 1-1/2 | 1-1/2 |
| 24GSP-32FLH45S | 2 | 1-1/2 |
| 32GSP-32FLH45-066 | 2 | 2 |

Code 62 O-Ring Flange Heavy 60° Bent Tube



| P/Number | Flange | Hose |
|---------------|--------|-------|
| 12GS-12FLH60M | 3/4 | 3/4 |
| 12GS-16FLH60M | 1 | 3/4 |
| 16GS-16FLH60M | 1 | 1 |
| 20GS-20FLH60M | 1-1/4 | 1-1/4 |
| 20GS-24FLH60M | 1-1/2 | 1-1/4 |

Code 62 O-Ring Flange Heavy 90° Bent Tube



| P/Number | Flange | Hose |
|-------------------|--------|-------|
| 8GS-8FLH90M | 1/2 | 1/2 |
| 8GS-8FLH90-080 | 1/2 | 1/2 |
| 8GS-12FLH90M | 3/4 | 1/2 |
| 10GS-8FLH90M | 1/2 | 5/8 |
| 10GS-12FLH90M | 3/4 | 5/8 |
| 12GS-12FLH90M | 3/4 | 3/4 |
| 12GS-16FLH90M | 1 | 3/4 |
| 16GS-12FLH90M | 3/4 | 1 |
| 16GS-16FLH90S | 1 | 1 |
| 16GS-16FLH90M | 1 | 1 |
| 16GS-16FLH90-120 | 1 | 1 |
| 16GS-20FLH90S | 1-1/4 | 1 |
| 16GS-20FLH90M | 1-1/4 | 1 |
| 16GS-24FLH90S | 1-1/2 | 1 |
| 20GS-16FLH90S | 1 | 1-1/4 |
| 20GS-16FLH90M | 1 | 1-1/4 |
| 20GS-16FLH90-100 | 1 | 1-1/4 |
| 20GS-20FLH90-076 | 1-1/4 | 1-1/4 |
| 20GS-20FLH90M | 1-1/4 | 1-1/4 |
| 20GS-20FLH90-120 | 1-1/4 | 1-1/4 |
| 20GS-24FLH90S | 1-1/2 | 1-1/4 |
| 24GSP-24FLH90-094 | 1-1/2 | 1-1/2 |
| 24GSP-32FLH90S | 2 | 1-1/2 |
| 32GSP-32FLH90M | 2 | 2 |



Section 3

Global-Crimp GS & GSP Couplings - Two Piece

Caterpillar Style O-Ring Flange



| P/Number | Flange | Hose |
|------------|--------|-------|
| 12GS-12FLC | 3/4 | 3/4 |
| 12GS-16FLC | 1 | 3/4 |
| 16GS-16FLC | 1 | 1 |
| 16GS-20FLC | 1-1/4 | 1 |
| 20GS-20FLC | 1-1/4 | 1-1/4 |
| 20GS-24FLC | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 22.5° Bent Tube



| P/Number | Flange | Hose |
|------------------|--------|-------|
| 12GS-12FLC22-016 | 3/4 | 3/4 |
| 16GS-16FLC22-017 | 1 | 1 |
| 16GS-20FLC22-017 | 1-1/4 | 1 |
| 20GS-20FLC22-017 | 1-1/4 | 1-1/4 |
| 20GS-24FLC22-017 | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 30° Bent Tube



| P/Number | Flange | Hose |
|------------------|--------|-------|
| 12GS-12FLC30-022 | 3/4 | 3/4 |
| 12GS-16FLC30-022 | 1 | 3/4 |
| 16GS-16FLC30-023 | 1 | 1 |
| 16GS-20FLC30-023 | 1-1/4 | 1 |
| 20GS-20FLC30-024 | 1-1/4 | 1-1/4 |
| 20GS-24FLC30-024 | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 45° Bent Tube



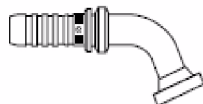
| P/Number | Flange | Hose |
|------------------|--------|-------|
| 12GS-12FLC45-035 | 3/4 | 3/4 |
| 12GS-16FLC45-035 | 1 | 3/4 |
| 16GS-16FLC45-037 | 1 | 1 |
| 16GS-20FLC45-037 | 1-1/4 | 1 |
| 20GS-20FLC45-037 | 1-1/4 | 1-1/4 |
| 20GS-24FLC45-037 | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 60° Bent Tube



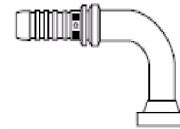
| P/Number | Flange | Hose |
|------------------|--------|-------|
| 12GS-16FLC60-048 | 1 | 3/4 |
| 16GS-16FLC60-050 | 1 | 1 |
| 16GS-20FLC60-050 | 1-1/4 | 1 |
| 20GS-20FLC60-052 | 1-1/4 | 1-1/4 |
| 20GS-24FLC60-052 | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 67.5° Bent Tube



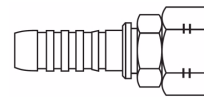
| P/Number | Flange | Hose |
|------------------|--------|-------|
| 16GS-16FLC67-057 | 1 | 1 |
| 16GS-20FLC67-057 | 1-1/4 | 1 |
| 20GS-20FLC67-059 | 1-1/4 | 1-1/4 |
| 20GS-24FLC67-059 | 1-1/2 | 1-1/4 |

Caterpillar Style O-Ring Flange 90° Bent Tube



| P/Number | Flange | Hose |
|------------------|--------|-------|
| 12GS-12FLC90-068 | 3/4 | 3/4 |
| 12GS-12FLC90-128 | 3/4 | 3/4 |
| 12GS-16FLC90-068 | 1 | 3/4 |
| 16GS-16FLC90-074 | 1 | 1 |
| 16GS-16FLC90-132 | 1 | 1 |
| 16GS-20FLC90-074 | 1-1/4 | 1 |
| 20GS-20FLC90-077 | 1-1/4 | 1-1/4 |
| 20GS-24FLC90-077 | 1-1/2 | 1-1/4 |

Female Komatsu Style Japanese Metric Swivel



| P/Number | Thread | Hose |
|-------------|---------|-------|
| 8GS-8FKX | M22x1.5 | 1/2 |
| 10GS-10FKX | M24x1.5 | 5/8 |
| 12GS-12FKX | M30x1.5 | 3/4 |
| 16GS-16FKX | M33x1.5 | 1 |
| 20GS-20FKX | M36x1.5 | 1-1/4 |
| 24GSP-24FKX | M42x1.5 | 1-1/2 |

Section 3

Global-Crimp GSM Couplings - One Piece



Male Pipe NPTF 30° Cone Seat



P/Number Thread Hose
24GSM-24MP 1-1/2 1-1/2

Male JIC 37° Flare



P/Number Thread Hose
24GSM-24MJ 1-7/8 1-1/2

Female JIC 37° Flare Swivel



P/Number Thread Hose
24GSM-24FJX 1-7/8 1-1/2
32GSM-32FJX 2-1/2 2

Female JIC 37° Flare Swivel 45° Bent Tube



P/Number Thread Hose
24GSM-24FJX45-034 1-7/8 1-1/2

Female JIC 37° Flare Swivel 90° Bent Tube



P/Number Thread Hose
24GSM-24FJX90M 1-7/8 1-1/2

Female BSPP O-Ring Swivel



P/Number Thread Hose
24GSM-24FBSPORX 1-1/2 1-1/2
32GSM-32FBSPORX 2 2

Female BSPP O-Ring Swivel 45° Bent Tube



P/Number Thread Hose
24GSM-24FBSPORX45 .. 1-1/2 1-1/2
32GSM-32FBSPORX45 .. 2 2

Female BSPP O-Ring Swivel 90° Bent Tube



P/Number Thread Hose
24GSM-24FBSPORX90 .. 1-1/2 1-1/2

Female Flat Face Swivel (4000 psi limited)



P/Number Thread Hose
24GSM4K-24FFORX ... 2 1-1/2

Female Flat Face Swivel 45° Bent Tube (4000 psi limited)



P/Number Thread ..Hose
24GSM4K-24FFORX45-038 ... 2 1-1/2

Female Flat Face Swivel 90° Bent Tube (4000 psi limited)



P/Number Thread...Hose
24GSM4K-24FFORX90M 2 1-1/2

Female DIN 24° Cone Swivel Heavy Series with O-Ring



P/Number ThreadHose
24GSM-38FDHORX 52mm 1-1/2

Female DIN 24° Cone Swivel Heavy Series with O-Ring 45° Bent Tube



P/Number ThreadHose
24GSM-38FDHORX45 ..52mm 1-1/2

Female DIN 24° Cone Swivel Heavy Series with O-Ring 90° Bent Tube



P/Number ThreadHose
24GSM-38FDHORX9052mm 1-1/2



Section 3

Global-Crimp GSM Couplings - One Piece

Code 61 O-Ring Flange



| | | |
|-----------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-24FL..... | 1-1/2..... | 1-1/2 |
| 24GSM-32FL..... | 2..... | 1-1/2 |
| 32GSM-32FL..... | 2..... | 2 |

Code 61 O-Ring Flange 30° Bent Tube



| | | |
|---------------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-24FL30M | 1-1/2..... | 1-1/2 |

Code 61 O-Ring Flange 45° Bent Tube



| | | |
|---------------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-24FL45M | 1-1/2..... | 1-1/2 |
| 24GSM-32FL45S..... | 2..... | 1-1/2 |
| 32GSM-32FL45M | 2..... | 2 |

Code 61 O-Ring Flange 60° Bent Tube



| | | |
|---------------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-24FL60M | 1-1/2..... | 1-1/2 |

Code 61 O-Ring Flange 90° Bent Tube



| | | |
|------------------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-24FL90S | 1-1/2..... | 1-1/2 |
| 32GSM-32FL90-130 | 2..... | 2 |

Code 62 O-Ring Flange Heavy



| | | |
|----------------------|--------------|------------|
| P/Number | Flange | Hose |
| 24GSM-20FLH | 1-1/4..... | 1-1/2 |
| 24GSM-24FLH | 1-1/2..... | 1-1/2 |
| 24GSM-32FLH | 2..... | 1-1/2 |
| 32GSM-32FLH | 2..... | 2 |
| 32GSM-32FLHCFM | 2..... | 2 |

Code 62 O-Ring Flange Heavy 22° Bent Tube



| | | |
|----------------------|-------------|------------|
| P/number | Flange..... | Hose |
| 24GSM-24FLH22M | 1-1/2 | 1-1/2 |

Code 62 O-Ring Flange Heavy 30° Bent Tube



| | | |
|------------------------|-------------|------------|
| P/number | Flange.... | Hose |
| 24GSM-24FLH30..... | 1-1/2 | 1-1/2 |
| 32GSM-32FLH30-040..... | 2 | 2 |

Code 62 O-Ring Flange Heavy 45° Bent Tube



| | | |
|----------------------------|-------------|------------|
| P/number | Flange..... | Hose |
| 24GSM-24FLH45M | 1-1/2 | 1-1/2 |
| 24GSM-32FLH45M | 2 | 1-1/2 |
| 32GSM-32FLH45-063 | 2 | 2 |
| 32GSM-32FLHCFM45-063 | 2 | 2 |

Code 62 O-Ring Flange Heavy 60° Bent Tube



| | | |
|----------------------|-------------|------------|
| P/Number..... | Flange..... | Hose |
| 24GSM-24FLH60M | 1-1/2 | 1-1/2 |
| 32GSM-32FLH60M | 2 | 2 |

Code 62 O-Ring Flange Heavy 90° Bent Tube



| | | |
|----------------------------|-------------|------------|
| P/Number..... | Flange | Hose |
| 24GSM-24FLH90-094 | 1-1/2 | 1-1/2 |
| 24GSM-24FLH90-150 | 1-1/2 | 1-1/2 |
| 24GSM-32FLH90S..... | 2 | 1-1/2 |
| 32GSM-32FLH90M | 2 | 2 |
| 32GSM-32FLH90-159 | 2 | 2 |
| 32GSM-32FLHCFM90-120 | 2 | 2 |

Section 3

Global-Crimp GSM Couplings - One Piece



Caterpillar Style O-Ring Flange



P/Number Flange Hose
 24GSM-24FLC 1-1/2 1-1/2
 24GSM-32FLC 2 1-1/2
 32GSM-32FLC 2 2

Caterpillar Style O-Ring Flange 22.5° Bent Tube



P/Number Flange Hose
 24GSM-24FLC22-017 1-1/2 1-1/2

Caterpillar Style O-Ring Flange 30° Bent Tube



P/Number Flange Hose
 24GSM-24FLC30-023 1-1/2 1-1/2

Caterpillar Style O-Ring Flange 45° Bent Tube



P/Number Flange Hose
 24GSM-24FLC45-039 1-1/2 1-1/2

Caterpillar Style O-Ring Flange 60° Bent Tube



P/Number Flange Hose
 24GSM-24FLC60-055 1-1/2 1-1/2

Caterpillar Style O-Ring Flange 90° Bent Tube



P/Number Flange Hose
 24GSM-24FLC90-087 1-1/2 1-1/2



Section 3

Vacu-Crimp GL Couplings - One Piece

Code 61 O-Ring Flange



| P/Number..... | Flange..... | Hose |
|----------------|-------------|-------|
| 40GL-40FL..... | 2-1/2..... | 2-1/2 |
| 40GL-48FL..... | 3..... | 2-1/2 |
| 40GL-56FL..... | 3-1/2..... | 2-1/2 |
| 48GL-48FL..... | 3..... | 3 |
| 56GL-56FL..... | 3-1/2..... | 3-1/2 |
| 64GL-64FL..... | 4..... | 4 |

Code 61 O-Ring Flange 22.5° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL22..... | 2-1/2..... | 2-1/2 |
| 40GL-48FL22..... | 3..... | 2-1/2 |
| 48GL-48FL22..... | 3..... | 3 |

Code 61 O-Ring Flange 30° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL30..... | 2-1/2..... | 2-1/2 |
| 40GL-48FL30..... | 3..... | 2-1/2 |
| 48GL-48FL30..... | 3..... | 3 |

Code 61 O-Ring Flange 45° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL45..... | 2-1/2..... | 2-1/2 |
| 40GL-48FL45..... | 3..... | 2-1/2 |
| 48GL-48FL45..... | 3..... | 3 |
| 48GL-56FL45..... | 3-1/2..... | 3 |
| 56GL-56FL45..... | 3-1/2..... | 3-1/2 |
| 56GL-64FL45..... | 4..... | 3-1/2 |

Code 61 O-Ring Flange 60° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL60..... | 2-1/2..... | 2-1/2 |
| 48GL-48FL60..... | 3..... | 3 |

Code 61 O-Ring Flange 67.5° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL67..... | 2-1/2..... | 2-1/2 |
| 48GL-48FL67..... | 3..... | 3 |
| 64GL-64FL67..... | 4..... | 4 |

Code 61 O-Ring Flange 90° Bent Tube



| P/Number..... | Flange..... | Hose |
|------------------|-------------|-------|
| 40GL-40FL90..... | 2-1/2..... | 2-1/2 |
| 40GL-48FL90..... | 3..... | 2-1/2 |
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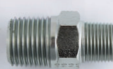






















































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|----------------|---|--|---|--|--|---|--|---|
| Nipples | J.I.C C1  P4.13 | BSP.T/BSP.T CB1  P4.13 | METRIC LIGHT CM1L  P4.13 | METRIC HEAVY CM1S  P4.13 | NPT.F/NPT.F CN1  P4.14 | BSP.P/ BSP.P CP1  P4.14 | | |
| | BSP.P/BSP.T CPB1  P4.14 | J.I.S.-G/J.I.S.-G CPJ1  P4.14 | BSP.P/NPT.F CPN1  P4.14 | BSP.P/BSP.P CR1  P4.13 | UNO/UNO CU1  P4.14 | O.R.F.S./O.R.F.S. F1  P4.13 | J.I.C./J.I.C. C2  P4.15 | |
| | S.A.E./S.A.E. CA2  P4.15 | BSP.T/J.I.C CB2  P4.15 | BSP.T/S.A.E. CBA2  P4.15 | BSP.T/J.I.S.-G CBJ2  P4.16 | DIN/J.I.C. CM2  P4.16 | METRIC LIGHT X JIC CM2L  P4.17 | METRIC HEAVY X JIC CM2S  P4.17 | |
| | METRIC LIGHT x BSP.T CMB2L  P4.17 | METRIC HEAVY x BSP.T CMB2S  P4.17 | METRIC LIGHT x BSP.P CMP2L  P4.17 | METRIC HEAVY x BSP.P CMP2S  P4.17 | METRIC LIGHT X BSP.P CMR2L (Encap. Seal)  P4.17 | METRIC HEAVY X BSP.P CMR2S (Encap. Seal)  P4.18 | NPT.F./J.I.C CN2  P4.18 | |
| | BSP.P/J.I.C CP2  P4.16 | BSP.P/J.I.C. CR2  P4.16 | O.R.F.S./O.R.F.S. F2  P4.15 | BSP.P/O.R.F.S. FP2  P4.18 | BSP.P ENCAP SEAL x ORFS FR2  P4.18 | S.A.E. 'O' RING/J.I.C. C3  P4.19 | S.A.E. 'O' RING/BSP.T CB3  P4.19 | |
| | METRIC LIGHT x SAE 'O' RING CM3L  P4.19 | S.A.E. 'O' RING/NPT.F CN3  P4.20 | S.A.E. 'O' RING/O.R.F.S F3  P4.19 | S.A.E. 'O' RING/J.I.C. C4  P4.20 | METRIC LIGHT CM6L  P4.19 | METRIC HEAVY CM6S  P4.19 | BSP.P/BSP.P CP6  P4.20 | |
| | O.R.F.S./J.I.C. F7  P4.20 | | | | | | | |
| Sockets | S.A.E./S.A.E. 'O' RING C9  P4.20 | BSP.T/BSP.T CB9  P4.20 | NPT.F/NPT.F CN9  P4.20 | BSP.P/BSP.P CP9  P4.20 | | | | |
| | Half Sockets | S.A.E. 'O' RING C14  P4.21 | BSP.T CB14  P4.21 | NPT.F CN14  P4.21 | BSP.P CP14  P4.21 | | | |
| | | Fixed Adaptors | BSP.T/BSP.T CB18  P4.21 | NPT.F/NPT.F CN18  P4.21 | BSP.T/J.I.C. CB20  P4.21 | NPT.F/J.I.C. CN20  P4.21 | BSP.P/J.I.C. CP20  P4.21 | S.A.E. 'O' RING/BSP.T CB21  P4.22 |

Section 4 Adaptors



*Manufactured To Order (minimum qty's may apply)














































| | | | | | | | |
|--|---|---|--|---|---|---|---|
| Fixed Adaptors Cont... | S.A.E. 'O' RING/NPT.F CN21 P4.22 | J.I.C./J.I.C. C22 P4.22 | S.A.E. 'O' RING/BSPT CB22 P4.22 | S.A.E. 'O' RING/NPT.F CN22 P4.22 | | | |
| | BSP.T/BSP.P CB24 P4.22 | METRIC LIGHT CM24L P4.22 | METRIC HEAVY CM24S P4.22 | NPT.F/NPS.M CN24 P4.23 | BSP.P/BSP.P CP24 P4.22 | BSP.P/BSP.P CP24G P4.22 | |
| | BSP.P/BSP.P CR24 P4.22 | BSP.T/BSP.P CB25 P4.23 | NPT.F/NPT.M CN25 P4.23 | UNO/J.I.C. C26 P4.23 | UNO/BSP.P CB26 P4.23 | UNO/NPS.M CN26 P4.23 | BSP.T/J.I.C. CB27 P4.23 |
| | NPT.F/J.I.C. CN27 P4.24 | BSP.P/J.I.C. CP27 P4.23 | J.I.C./J.I.C. C27G P4.23 | BSP.P/J.I.C. CR27 P4.24 | BSPP x METRIC LIGHT CRM27L P4.23 | BSPP x METRIC HEAVY CRM27S P4.24 | O.R.F.S/O.R.F.S F27G P4.24 |
| BSP.P/J.I.C. CP28 P4.24 | ORFS/J.I.C. F28 P4.24 | J.I.C./ORFS F29 P4.24 | | | | | |
| 45° Unions | J.I.C./J.I.C. C30 P4.24 | BSP.T/BSP.P CB30 P4.24 | NPT.F/NPT.M CN30 P4.24 | S.A.E. 'O' RING/J.I.C. C31 P4.25 | S.A.E. 'O' RING/NPS.M CN31 P4.25 | | |
| | BSP.T/BSP.T CB36 P4.25 | NPT.F/NPT.F CN36 P4.25 | BSP.T/BSP.T CB37 P4.25 | NPT.F/NPT.F CN37 P4.25 | BSPT/J.I.C. CB38 P4.25 | BSP.T/J.I.S. CBJ38 P4.25 | |
| | NPT.F/J.I.C. CN38 P4.26 | BSP.P/J.I.C. CP38 P4.25 | BSP.T/BSPT CB39 P4.26 | S.A.E. 'O' RING/J.I.C. C40 P4.26 | J.I.C./J.I.C. C42 P4.26 | | |
| 90° Unions | J.I.C./J.I.C. C46 P4.26 | BSP.T/BSP.P CB46 P4.26 | NPT.F/NPT.M CN46 P4.27 | BSP.P/BSP.P CP46 P4.27 | O.R.F.S./O.R.F.S. F46 P4.27 | S.A.E. 'O' RING/J.I.C. C47 P4.27 | |
| | S.A.E. 'O' RING/BSP.P CB47 P4.27 | S.A.E. 'O' RING/NPS.M CN47 P4.27 | BSP.T/J.I.C. CB48 P4.27 | | | | |
| | | | | | | | |

| | | | | | | |
|---|--|--|---|--|---|---|
| 90° Elbows | BSP.T/BSP.T CB53  P4.28 | METRIC LIGHT CM53L  P4.28 | METRIC HEAVY CM53S  P4.28 | NPT.F/NPT.F CN53  P4.28 | BSP.P/BSP.T CPB53  P4.28 | BSP.P X BSP.T CPB53  P4.28 |
| BSP.T/BSP.T CB54  P4.29 | NPT.F/NPT.F CN54  P4.29 | BSP.T/BSP.T CB55  P4.29 | NPT.F/NPT.F CN55  P4.29 | BSP.T/J.I.C. CB56  P4.29 | BSP.T/J.I.S.-G CBJ56  P4.30 | METRIC/J.I.C. CM56  P4.30 |
| NPT.F/J.I.C. CN56  P4.30 | BSP.P/J.I.C. CP56  P4.30 | BSP.P/O.R.F.S. FP56  P4.30 | BSP.T/J.I.C. CB57  P4.30 | BSP.T/J.I.C. CB57  P4.30 | NPT.F/J.I.C. CN57  P4.31 | J.I.C./J.I.C. C58  P4.31 |
| BSP.T/J.I.C. CB58  P4.31 | NPT.F/J.I.C. CN58  P4.31 | S.A.E. 'O' RING/J.I.C. C59  P4.31 | S.A.E. 'O' RING/BSP.T CB59  P4.32 | S.A.E. 'O' RING/J.I.C. CE59  P4.32 | S.A.E. 'O' RING/J.I.C. CE59  P4.32 | S.A.E. 'O' RING/NPT.F CN59  P4.32 |
| S.A.E. 'O' RING/J.I.C. CS59  P4.32 | S.A.E. 'O' RING/O.R.F.S. F59  P4.32 | J.I.C./J.I.C. C61  P4.32 | S.A.E. 'O' RING/S.A.E. CA61  P4.32 | | | |
| Tees & Crosses | BSP.T/BSP.T/BSP.P CB61  P4.33 | BSP.T/BSP.T/BSP.T CB62  P4.33 | METRIC LIGHT CM62L  P4.33 | METRIC HEAVY CM62S  P4.33 | NPT.F/NPT.F/NPT.F CN62  P4.33 | J.I.C./J.I.C./J.I.C. C63  P4.33 |
| BSP.T/BSP.T/BSP.T CB63  P4.34 | NPT.F/NPT.F/NPT.F CN63  P4.34 | O.R.F.S./O.R.F.S./O.R.F.S. F63  P4.33 | J.I.C./J.I.C./J.I.C. C64  P4.34 | METRIC LIGHT CM64L  P4.34 | METRIC HEAVY CM64S  P4.34 | BSP.T/BSP.T/BSP.T CB64  P4.34 |
| NPT.F/NPT.F/NPT.F CN64  P4.34 | O.R.F.S./O.R.F.S./O.R.F.S. F64  P4.34 | J.I.C./J.I.C./J.I.C. C65  P4.34 | METRIC LIGHT CM65L  P4.35 | METRIC HEAVY CM65S  P4.35 | J.I.C./J.I.C./BSP.T CB65  P4.35 | J.I.C./J.I.C./NPT.F CN65  P4.35 |
| J.I.C./J.I.C./BSP.P CP65  P4.35 | BSP.P/BSP.P/BSP.T CB566  P4.35 | NPT.F/NPT.F/NPT.F CN66  P4.35 | J.I.C./BSP.T/J.I.C. CB67  P4.35 | J.I.C./NPT.F/J.I.C. CN67  P4.36 | J.I.C./BSP.P/J.I.C. CP67  P4.35 | J.I.C./J.I.C./S.A.E. 'O' RING C68  P4.36 |
| S.A.E. 'O' RING/J.I.C./J.I.C. C69  P4.36 | BSP.P/BSP.T/BSP.T CB69  P4.36 | J.I.C./J.I.C./J.I.C. C70  P4.36 | J.I.C./J.I.C./J.I.C. C71  P4.36 | J.I.C. C72  P4.37 | BSP.T CB72  P4.37 | NPT.F CN72  P4.37 |



Section 4 Adaptors



*Manufactured To Order (minimum qty's may apply)

| | | | | | | |
|---|---|---|---|--|---|---|
| Reducing Bushes | BSP.T/BSP.T CB73  P4.37 | BSP.P/BSP.P CP73 (A)  P4.37 | BSP.P/BSP.P CP73 (B)  P4.37 | NPT.F/NPT.F CN73  P4.38 | BSP.P/BSP.P CR73  P4.37 | S.A.E./S.A.E. 'O' RING C74  P4.38 |
| | S.A.E. 'O' RING/BSP.T CB74  P4.38 | S.A.E. 'O' RING/NPT.F CN74 (A)  P4.38 | S.A.E. 'O' RING/NPT.F CN74 (B)  P4.38 | | | |
| Plugs & Cap Nuts | S.A.E. 'O' RING C77  P4.38 | J.I.C C77S  P4.39 | BSP.T CB77  P4.39 | METRIC CM77  P4.39 | METRIC LIGHT CM77L  P4.39 | METRIC HEAVY CM77S  P4.39 |
| | NPT.F CN77  P4.39 | BSP.P CP77  P4.39 | BSP.P CR77  P4.35 | J.I.C CR77S  P4.39 | J.I.C C78  P4.40 | O.R.F.S. F78  P4.40 |
| BSP.P CBS79  P4.40 | METRIC LIGHT CM79L  P4.40 | METRIC HEAVY CM79S  P4.40 | O.R.F.S. F79  P4.40 | METRIC/KOMATSU CK79  P4.40 | | |
| Bulkhead Nuts | J.I.C C80  P4.40 | O.R.F.S. F80  P4.41 | | | | |
| | J.I.C C83  P4.41 | METRIC LIGHT CM83L-N  P4.41 | METRIC LIGHT CM83L-R  P4.41 | METRIC HEAVY CM83S-N  P4.41 | METRIC HEAVY CM83S-R  P4.41 | O.R.F.S. F83  P4.42 |
| J.I.C/J.I.C. C84 (A)  P4.42 | J.I.C/J.I.C. C84 (B)  P4.42 | O.R.F.S./O.R.F.S. F84  P4.42 | | | | |
| Tubeweld Fittings | J.I.C/TUBE C86  P4.43 | BSP.T/TUBE CB86  P4.43 | NPT.F/TUBE CN86  P4.43 | J.I.C/TUBE C87  P4.43 | BSP.P/TUBE CB87  P4.44 | J.I.C/TUBE C88  P4.44 |
| | S.A.E. Flanges - Tubeweld  P4.44 | CODE 62 C92H  P4.44 | | | | |

For stainless steel quote standard part number and add suffix "SS". Enquire for price and availability. **4.11**

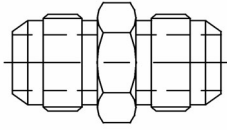
| | | | | | | |
|--|---|---|--|--|--|---|
| J.I.C. Tube Assemblies | J.I.C./J.I.C. C93  P4.44 | J.I.C./J.I.C. C93H  P4.44 | J.I.C./J.I.C. C94  P4.44 | J.I.C./J.I.C. C94H  P4.45 | J.I.C./J.I.C. C95  P4.45 | |
| J.I.C. to S.A.E. Flange Tube Assemblies | CODE 61 C96  P4.45 | CODE 62 C96H  P4.45 | CODE 61 C97  P4.45 | CODE 62 C97H  P4.45 | CODE 61 C98  P4.46 | CODE 62 C98H  P4.46 |
| 'O' Rings & Seals | S.A.E. 'O' RING THREAD R01  P4.47 | S.A.E. FLANGE R02  P4.47 | BSP.P THREAD R03  P4.47 | BSP.P SEAL R04  P4.47 | BSP.P SEAL R04B  P4.47 | METRIC SEAL R04M  P4.47 |
| O.R.F.S. THREAD R06  P4.47 | METRIC. FDKO R08  P4.48 | BSP.P RETAINING RING R13  P4.48 | SEAL RING DKR  P4.48 | | | |

Section 4 Adaptors



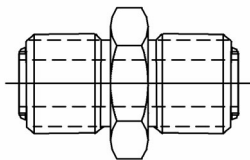
*Manufactured To Order (minimum qty's may apply)

Nipple M/M JIC x JIC



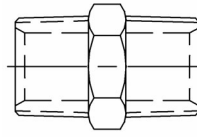
| P/Number..... | Thread |
|---------------|-----------------|
| C1-0707 | 7/16 x 7/16 |
| C1-0808 | 1/2 x 1/2 |
| C1-0907 | 9/16 x 7/16 |
| C1-0909 | 9/16 x 9/16 |
| C1-1207 | 3/4 x 7/16 |
| C1-1209 | 3/4 x 9/16 |
| C1-1212 | 3/4 x 3/4 |
| C1-1412 | 7/8 x 3/4 |
| C1-1414 | 7/8 x 7/8 |
| C1-1709 | 1-1/16 x 9/16 |
| C1-1712 | 1-1/16 x 3/4 |
| C1-1714 | 1-1/16 x 7/8 |
| C1-1717 | 1-1/16 x 1-1/16 |
| C1-1917 | 1-3/16 x 1-1/16 |
| C1-2114 | 1-5/16 x 7/8 |
| C1-2117 | 1-5/16 x 1-1/16 |
| C1-2119 | 1-5/16 x 1-3/16 |
| C1-2121 | 1-5/16 x 1-5/16 |
| C1-2621 | 1-5/8 x 1-5/16 |
| C1-2626 | 1-5/8 x 1-5/8 |
| C1-3026 | 1-7/8 x 1-5/8 |
| C1-3030 | 1-7/8 x 1-7/8 |
| C1-4040 | 2-1/2 x 2-1/2 |

Nipple M/M ORFS x ORFS



| P/Number..... | Thread |
|---------------|-----------------|
| F1-0909 | 9/16 x 9/16 |
| F1-1111 | 11/16 x 11/16 |
| F1-1313 | 13/16 x 13/16 |
| F1-1616 | 1 x 1 |
| F1-1916 | 1-3/16 x 1 |
| F1-1919 | 1-3/16 x 1-3/16 |
| F1-2323 | 1-7/16 x 1-7/16 |

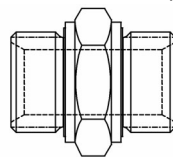
Nipple M/M BSPT x BSPT



| P/Number | Thread |
|----------------|---------------|
| CB1-0202 | 1/8 x 1/8 |
| CB1-0402 | 1/4 x 1/8 |
| CB1-0404 | 1/4 x 1/4 |
| CB1-0604 | 3/8 x 1/4 |
| CB1-0606 | 3/8 x 3/8 |
| CB1-0804 | 1/2 x 1/4 |
| CB1-0806 | 1/2 x 3/8 |
| CB1-0808 | 1/2 x 1/2 |
| CB1-1008 | 5/8 x 1/2 |
| CB1-1010 | 5/8 x 5/8 |
| CB1-1204 | 3/4 x 1/4 |
| CB1-1206 | 3/4 x 3/8 |
| CB1-1208 | 3/4 x 1/2 |
| CB1-1212 | 3/4 x 3/4 |
| CB1-1606 | 1 x 3/8 |
| CB1-1608 | 1 x 1/2 |
| CB1-1612 | 1 x 3/4 |
| CB1-1616 | 1 x 1 |
| CB1-2012 | 1-1/4 x 3/4 |
| CB1-2016 | 1-1/4 x 1 |
| CB1-2020 | 1-1/4 x 1-1/4 |
| * CB1-2412 | 1-1/2 x 3/4 |
| CB1-2416 | 1-1/2 x 1 |
| CB1-2420 | 1-1/2 x 1-1/4 |
| CB1-2424 | 1-1/2 x 1-1/2 |
| * CB1-3220 | 2 x 1-1/4 |
| CB1-3224 | 2 x 1-1/2 |
| CB1-3232 | 2 x 2 |
| CB1-4040 | 2-1/2 x 2-1/2 |

Nipple M/M BSPP x BSPP Encapsulated Seal

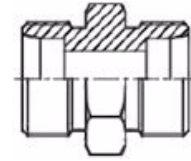
Included in the supply.



| P/Number | Thread |
|----------------|---------------|
| CR1-0202 | 1/8 x 1/8 |
| CR1-0404 | 1/4 x 1/4 |
| CR1-0604 | 3/8 x 1/4 |
| CR1-0606 | 3/8 x 3/8 |
| CR1-0806 | 1/2 x 3/8 |
| CR1-0808 | 1/2 x 1/2 |
| CR1-1208 | 3/4 x 1/2 |
| CR1-1212 | 3/4 x 3/4 |
| CR1-1612 | 1 x 3/4 |
| CR1-1616 | 1 x 1 |
| CR1-2016 | 1-1/4 x 1 |
| CR1-2020 | 1-1/4 x 1-1/4 |
| CR1-2424 | 1-1/2 x 1-1/2 |

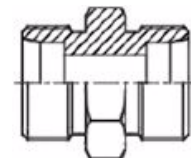
NB: Same sized thread on both only has the encapsulated seal on one side. Jump sizes are supplied with seals on each end.

Nipple M/M Metric Light



| P/Number.... | Tube OD | Thread |
|--------------|---------|-----------------|
| CM1L-1212 | 6L | 12x1.5 |
| CM1L-1412 | 8-6L | 14x1.5 x 12x1.5 |
| CM1L-1414 | 8L | 14x1.5 |
| CM1L-1612 | 10-6L | 16x1.5 x 12x1.5 |
| CM1L-1614 | 10-8L | 16x1.5 x 14x1.5 |
| CM1L-1616 | 10L | 16x1.5 |
| CM1L-1812 | 12-6L | 18x1.5 x 12x1.5 |
| CM1L-1814 | 12-8L | 18x1.5 x 14x1.5 |
| CM1L-1816 | 12-10L | 18x1.5 x 16x1.5 |
| CM1L-1818 | 12L | 18x1.5 |
| CM1L-2216 | 15-10L | 22x1.5 x 16x1.5 |
| CM1L-2218 | 15-12L | 22x1.5 x 18x1.5 |
| CM1L-2222 | 15L | 22x1.5 |
| CM1L-2618 | 18-12L | 26x1.5 x 18x1.5 |
| CM1L-2622 | 18-15L | 26x1.5 x 22x1.5 |
| CM1L-2626 | 18L | 26x1.5 |
| CM1L-3022 | 22-15L | 30x2 x 22x1.5 |
| CM1L-3026 | 22-18L | 30x2 x 26x1.5 |
| CM1L-3030 | 22L | 30x2 |
| CM1L-3630 | 28-22L | 36x2 x 30x2 |
| CM1L-3636 | 28L | 36x2 |

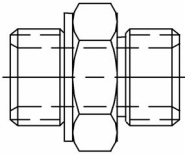
Nipple M/M Metric Heavy



| P/Number.... | Tube OD | Thread |
|--------------|---------|-----------------|
| CM1S-1414 | 6S | 14x1.5 |
| CM1S-1614 | 8-6S | 16x1.5 x 14x1.5 |
| CM1S-1616 | 8S | 16x1.5 |
| CM1S-1814 | 10-6S | 18x1.5 x 14x1.5 |
| CM1S-1816 | 10-8S | 18x1.5 x 16x1.5 |
| CM1S-1818 | 10S | 18x1.5 |
| CM1S-2014 | 12-6S | 20x1.5 x 14x1.5 |
| CM1S-2016 | 12-8S | 20x1.5 x 16x1.5 |
| CM1S-2018 | 12-10S | 20x1.5 x 18x1.5 |
| CM1S-2020 | 12S | 20x1.5 |
| CM1S-2218 | 14-10S | 22x1.5 x 18x1.5 |
| CM1S-2220 | 14-12S | 22x1.5 x 20x1.5 |
| CM1S-2222 | 14S | 22x1.5 |
| CM1S-2420 | 16-12S | 24x1.5 x 20x1.5 |
| CM1S-2422 | 16-14S | 24x1.5 x 22x1.5 |
| CM1S-2424 | 16S | 24x1.5 |
| CM1S-3018 | 20-10S | 30x2 x 18x1.5 |
| CM1S-3020 | 20-12S | 30x2 x 20x1.5 |
| CM1S-3024 | 20-16S | 30x2 x 20x1.5 |
| CM1S-3030 | 20S | 30x2 |
| CM1S-3624 | 25-16S | 36x2 x 24x1.5 |
| CM1S-3630 | 25-20S | 36x2 x 30x2 |
| CM1S-3636 | 25S | 36x2 |

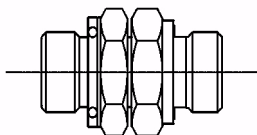
Nipple M/M BSPP x BSPP

Included in the supply is one 'O' Ring and Retainer Washer. Jump Threads are supplied with 'O' Ring & Retainer on large Thread only.



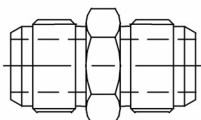
| P/Number | Thread |
|----------|---------------|
| CP1-0202 | 1/8 x 1/8 |
| CP1-0404 | 1/4 x 1/4 |
| CP1-0604 | 3/8 x 1/4 |
| CP1-0606 | 3/8 x 3/8 |
| CP1-0806 | 1/2 x 3/8 |
| CP1-0808 | 1/2 x 1/2 |
| CP1-1208 | 3/4 x 1/2 |
| CP1-1212 | 3/4 x 3/4 |
| CP1-1608 | 1 x 1/2 |
| CP1-1612 | 1 x 3/4 |
| CP1-1616 | 1 x 1 |
| CP1-2016 | 1-1/4 x 1 |
| CP1-2020 | 1-1/4 x 1-1/4 |
| CP1-2420 | 1-1/2 x 1-1/4 |
| CP1-2424 | 1-1/2 x 1-1/2 |
| CP1-3232 | 2 x 2 |

Nipple M/M BSPP x BSPP Adjustable Encapsulated Seal



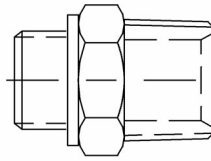
| P/Number | Thread |
|-------------|-----------|
| CR1-0606Z | 3/8 x 3/8 |
| * CR1-0808Z | 1/2 x 1/2 |

Nipple M/M JIS x JIS (BSPP x BSPP)



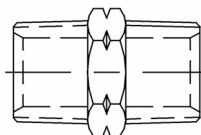
| P/Number | Thread |
|-----------|-----------|
| CPJ1-0404 | 1/4 x 1/4 |
| CPJ1-0606 | 3/8 x 3/8 |
| CPJ1-0808 | 1/2 x 1/2 |
| CPJ1-1212 | 3/4 x 3/4 |
| CPJ1-1616 | 1 x 1 |

Nipple M/M BSPP x BSPT



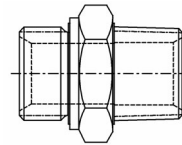
| P/Number | Thread |
|-------------|---------------|
| CPB1-0204 | 1/8 x 1/4 |
| CPB1-0404 | 1/4 x 1/4 |
| CPB1-0406 | 1/4 x 3/8 |
| CPB1-0604 | 3/8 x 1/4 |
| CPB1-0606 | 3/8 x 3/8 |
| CPB1-0608 | 3/8 x 1/2 |
| CPB1-0804 | 1/2 x 1/4 |
| CPB1-0806 | 1/2 x 3/8 |
| CPB1-0808 | 1/2 x 1/2 |
| CPB1-0812 | 1/2 x 3/4 |
| CPB1-1208 | 3/4 x 1/2 |
| CPB1-1212 | 3/4 x 3/4 |
| CPB1-1216 | 3/4 x 1 |
| CPB1-1608 | 1 x 1/2 |
| CPB1-1612 | 1 x 3/4 |
| CPB1-1616 | 1 x 1 |
| CPB1-2016 | 1-1/4 x 1 |
| CPB1-2020 | 1-1/4 x 1-1/4 |
| CPB1-2420 | 1-1/2 x 1-1/4 |
| CPB1-2424 | 1-1/2 x 1-1/2 |
| CPB1-3220 | 2 x 1-1/4 |
| * CPB1-3224 | 2 x 1-1/2 |
| CPB1-3232 | 2 x 2 |

Nipple M/M NPTF x NPTF



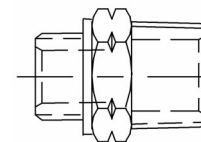
| P/Number | Thread |
|------------|---------------|
| CN1-0202 | 1/8 x 1/8 |
| CN1-0402 | 1/4 x 1/8 |
| CN1-0404 | 1/4 x 1/4 |
| CN1-0604 | 3/8 x 1/4 |
| CN1-0606 | 3/8 x 3/8 |
| CN1-0806 | 1/2 x 3/8 |
| CN1-0808 | 1/2 x 1/2 |
| CN1-1204 | 3/4 x 1/4 |
| * CN1-1206 | 3/4 x 3/8 |
| CN1-1208 | 3/4 x 1/2 |
| CN1-1212 | 3/4 x 3/4 |
| CN1-1608 | 1 x 1/2 |
| CN1-1612 | 1 x 3/4 |
| CN1-1616 | 1 x 1 |
| * CN1-2016 | 1-1/4 x 1 |
| CN1-2020 | 1-1/4 x 1-1/4 |
| CN1-2420 | 1-1/2 x 1-1/4 |
| CN1-2424 | 1-1/2 x 1-1/2 |
| CN1-3224 | 2 x 1-1/2 |
| CN1-3232 | 2 x 2 |
| * CN1-4040 | 2-1/2 x 2-1/2 |

Nipple M/M BSPP x BSPT Encapsulated Seal



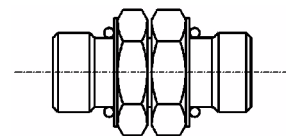
| P/Number | Thread |
|-------------|---------------|
| CRB1-0604 | 3/8 x 1/4 |
| CRB1-0606 | 3/8 x 3/8 |
| * CRB1-0608 | 3/8 x 1/2 |
| * CRB1-0806 | 1/2 x 3/8 |
| CRB1-0808 | 1/2 x 1/2 |
| CRB1-1212 | 3/4 x 3/4 |
| CRB1-1616 | 1 x 1 |
| * CRB1-2016 | 1-1/4 x 1 |
| CRB1-2020 | 1-1/4 x 1-1/4 |

Nipple M/M BSPP x NPTF



| P/Number | Thread |
|-------------|---------------|
| CPN1-0404 | 1/4 x 1/4 |
| * CPN1-0604 | 3/8 x 1/4 |
| CPN1-0606 | 3/8 x 3/8 |
| CPN1-0608 | 3/8 x 1/2 |
| * CPN1-0806 | 1/2 x 3/8 |
| CPN1-0808 | 1/2 x 1/2 |
| * CPN1-0812 | 1/2 x 3/4 |
| CPN1-1212 | 3/4 x 3/4 |
| CPN1-1616 | 1 x 1 |
| * CPN1-1620 | 1 x 1-1/4 |
| * CPN1-2020 | 1-1/4 x 1-1/4 |
| * CPN1-2024 | 1-1/4 x 1-1/2 |

Nipple M/M UNO x UNO Adjustable



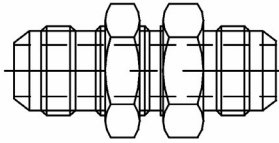
| P/Number | Thread |
|----------|-----------------|
| CU1-0909 | 9/16 x 9/16 |
| CU1-1212 | 3/4 x 3/4 |
| CU1-1412 | 7/8 x 3/4 |
| CU1-2121 | 1-5/16 x 1-5/16 |

Section 4 Adaptors



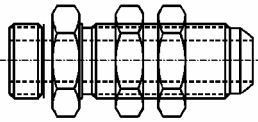
*Manufactured To Order (minimum qty's may apply)

Bulkhead Nipple M/M JIC x JIC



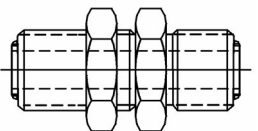
| P/Number..... | Thread |
|--------------------|-----------------|
| C2-0707..... | 7/16 x 7/16 |
| * C2-0707-E56..... | 7/16 x 7/16 |
| C2-0808..... | 1/2 x 1/2 |
| C2-0909..... | 9/16 x 9/16 |
| * C2-0909-E59..... | 9/16 x 9/16 |
| C2-1212..... | 3/4 x 3/4 |
| * C2-1212-E66..... | 3/4 x 3/4 |
| C2-1414..... | 7/8 x 7/8 |
| C2-1714..... | 1-1/16 x 7/8 |
| C2-1717..... | 1-1/16 x 1-1/16 |
| C2-1919..... | 1-3/16 x 1-3/16 |
| C2-2121..... | 1-5/16 x 1-5/16 |
| C2-2626..... | 1-5/8 x 1-5/8 |
| C2-3030..... | 1-7/8 x 1-7/8 |
| C2-4040..... | 2-1/2 x 2-1/2 |

Bulkhead Nipple M/M UNO x JIC Extended



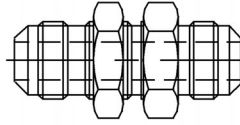
| P/Number..... | Thread |
|-----------------|-----------------|
| * ZC2-1212..... | 3/4 x 3/4 |
| * ZC2-1414..... | 7/8 x 7/8 |
| * ZC2-1717..... | 1-1/16 x 1-1/16 |
| * ZC2-2121..... | 1-5/16 x 1-5/16 |

Bulkhead Nipple M/M ORFS x ORFS



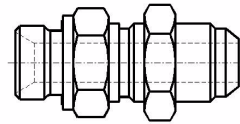
| P/Number..... | Thread |
|---------------|-------------------|
| F2-0909..... | 9/16 x 9/16 |
| F2-1111..... | 11/16 x 11/16 |
| F2-1313..... | 13/16 x 13/16 |
| F2-1616..... | 1 x 1 |
| F2-1919..... | 1-3/16 x 1-1/316 |
| F2-2323..... | 1-7/16 x 1-7/16 |
| F2-2727..... | 1-11/16 x 1-11/16 |

Bulkhead Nipple M/M SAE x SAE



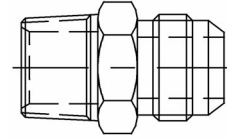
| P/Number..... | Thread |
|-----------------|-----------------|
| CA2-1010..... | 5/8 x 5/8 |
| CA2-1212..... | 3/4 x 3/4 |
| CA2-1414..... | 7/8 x 7/8 |
| * CA2-1717..... | 1-1/16 x 1-1/16 |

Bulkhead Nipple M/M BSPP x JIC



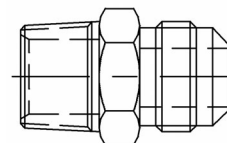
| P/Number..... | Thread |
|------------------|------------|
| * CR2-0609Z..... | 3/8 x 9/16 |
| * CR2-0814Z..... | 1/2 x 7/8 |

Nipple M/M BSPT x JIC



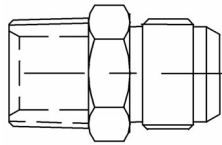
| P/Number..... | Thread |
|-----------------|----------------|
| CB2-0206..... | 1/8 x 3/8 |
| CB2-0207..... | 1/8 x 7/16 |
| CB2-0208..... | 1/8 x 1/2 |
| CB2-0209..... | 1/8 x 9/16 |
| CB2-0407..... | 1/4 x 7/16 |
| CB2-0408..... | 1/4 x 1/2 |
| CB2-0409..... | 1/4 x 9/16 |
| CB2-0412..... | 1/4 x 3/4 |
| CB2-0414..... | 1/4 x 7/8 |
| CB2-0607..... | 3/8 x 7/16 |
| CB2-0608..... | 3/8 x 1/2 |
| CB2-0609..... | 3/8 x 9/16 |
| CB2-0612..... | 3/8 x 3/4 |
| CB2-0614..... | 3/8 x 7/8 |
| CB2-0617..... | 3/8 x 1-1/16 |
| CB2-0807..... | 1/2 x 7/16 |
| CB2-0809..... | 1/2 x 9/16 |
| CB2-0812..... | 1/2 x 3/4 |
| CB2-0814..... | 1/2 x 7/8 |
| CB2-0817..... | 1/2 x 1-1/16 |
| CB2-0821..... | 1/2 x 1-5/16 |
| CB2-1208..... | 3/4 x 1/2 |
| CB2-1209..... | 3/4 x 9/16 |
| CB2-1212..... | 3/4 x 3/4 |
| CB2-1214..... | 3/4 x 7/8 |
| CB2-1217..... | 3/4 x 1-1/16 |
| * CB2-1219..... | 3/4 x 1-3/16 |
| CB2-1221..... | 3/4 x 1-5/16 |
| CB2-1612..... | 1 x 3/4 |
| CB2-1614..... | 1 x 7/8 |
| CB2-1617..... | 1 x 1-1/16 |
| CB2-1621..... | 1 x 1-5/16 |
| CB2-1626..... | 1 x 1-5/8 |
| CB2-2017..... | 1-1/4 x 1-1/16 |
| CB2-2021..... | 1-1/4 x 1-5/16 |
| CB2-2026..... | 1-1/4 x 1-5/8 |
| CB2-2030..... | 1-1/4 x 1-7/8 |
| CB2-2421..... | 1-1/2 x 1-5/16 |
| CB2-2426..... | 1-1/2 x 1-5/8 |
| CB2-2430..... | 1-1/2 x 1-7/8 |
| CB2-3230..... | 2 x 1-7/8 |
| CB2-3240..... | 2 x 2-1/2 |

Nipple M/M BSPT x SAE



| P/Number..... | Thread |
|----------------|-----------|
| CBA2-0410..... | 1/4 x 5/8 |
| CBA2-0610..... | 3/8 x 5/8 |
| CBA2-0810..... | 1/2 x 5/8 |

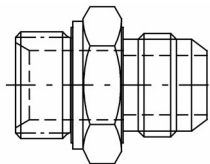
Nipple M/M BSPT x JIS



| P/Number | Thread |
|-----------|-----------|
| CBJ2-0404 | 1/4 x 1/4 |
| CBJ2-0606 | 3/8 x 3/8 |
| CBJ2-0808 | 1/2 x 1/2 |
| CBJ2-1212 | 3/4 x 3/4 |
| CBJ2-1616 | 1 x 1 |

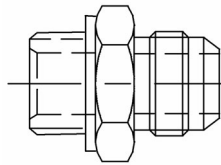
Nipple M/M BSPP x JIC Encapsulated Seal

Included in the supply



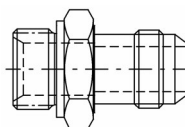
| P/Number | Thread |
|----------|----------------|
| CR2-0207 | 1/8 x 7/16 |
| CR2-0209 | 1/8 x 9/16 |
| CR2-0407 | 1/4 x 7/16 |
| CR2-0408 | 1/4 x 1/2 |
| CR2-0409 | 1/4 x 9/16 |
| CR2-0412 | 1/4 x 3/4 |
| CR2-0607 | 3/8 x 7/16 |
| CR2-0609 | 3/8 x 9/16 |
| CR2-0612 | 3/8 x 3/4 |
| CR2-0614 | 3/8 x 7/8 |
| CR2-0809 | 1/2 x 9/16 |
| CR2-0812 | 1/2 x 3/4 |
| CR2-0814 | 1/2 x 7/8 |
| CR2-0817 | 1/2 x 1-1/16 |
| CR2-1209 | 3/4 x 9/16 |
| CR2-1212 | 3/4 x 3/4 |
| CR2-1214 | 3/4 x 7/8 |
| CR2-1217 | 3/4 x 1-1/16 |
| CR2-1221 | 3/4 x 1-5/16 |
| CR2-1612 | 1 x 3/4 |
| CR2-1614 | 1 x 7/8 |
| CR2-1617 | 1 x 1-1/16 |
| CR2-1621 | 1 x 1-5/16 |
| CR2-1626 | 1 x 1-5/8 |
| CR2-2017 | 1-1/4 x 1-1/16 |
| CR2-2021 | 1-1/4 x 1-5/16 |
| CR2-2026 | 1-1/4 x 1-5/8 |
| CR2-2030 | 1-1/4 x 1-7/8 |
| CR2-2421 | 1-1/2 x 1-5/16 |
| CR2-2426 | 1-1/2 x 1-5/8 |
| CR2-2430 | 1-1/2 x 1-7/8 |

Nipple M/M BSPP x JIC



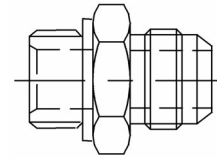
| P/Number | Thread |
|------------|----------------|
| CP2-0207 | 1/8 x 7/16 |
| CP2-0209 | 1/8 x 9/16 |
| CP2-0407 | 1/4 x 7/16 |
| CP2-0408 | 1/4 x 1/2 |
| CP2-0409 | 1/4 x 9/16 |
| CP2-0412 | 1/4 x 3/4 |
| CP2-0607 | 3/8 x 7/16 |
| CP2-0609 | 3/8 x 9/16 |
| CP2-0612 | 3/8 x 3/4 |
| CP2-0614 | 3/8 x 7/8 |
| CP2-0807 | 1/2 x 7/16 |
| CP2-0809 | 1/2 x 9/16 |
| CP2-0812 | 1/2 x 3/4 |
| CP2-0814 | 1/2 x 7/8 |
| CP2-0817 | 1/2 x 1-1/16 |
| CP2-1209 | 3/4 x 9/16 |
| CP2-1212 | 3/4 x 3/4 |
| CP2-1214 | 3/4 x 7/8 |
| CP2-1217 | 3/4 x 1-1/16 |
| CP2-1221 | 3/4 x 1-5/16 |
| CP2-1612 | 1 x 3/4 |
| CP2-1614 | 1 x 7/8 |
| CP2-1617 | 1 x 1-1/16 |
| CP2-1621 | 1 x 1-5/16 |
| CP2-1626 | 1 x 1-5/8 |
| * CP2-2012 | 1-1/4 x 3/4 |
| CP2-2017 | 1-1/4 x 1-1/16 |
| CP2-2021 | 1-1/4 x 1-5/16 |
| CP2-2026 | 1-1/4 x 1-5/8 |
| CP2-2030 | 1-1/4 x 1-7/8 |
| CP2-2040 | 1-1/4 x 2-1/2 |
| CP2-2421 | 1-1/2 x 1-5/16 |
| CP2-2426 | 1-1/2 x 1-5/8 |
| CP2-2430 | 1-1/2 x 1-7/8 |
| CP2-3226 | 2 x 1-5/8 |
| CP2-3230 | 2 x 1-7/8 |
| CP2-3240 | 2 x 2-1/2 |

Nipple M/M BSPP x JIC Extended



| P/Number | Thread |
|-----------------|------------|
| * CP2-E90-0409 | 1/4 x 9/16 |
| * CP2-E95-0409 | 1/4 x 9/16 |
| * CP2-E160-0609 | 3/8 x 9/16 |
| * CP2-E90-0609 | 3/8 x 9/16 |
| * CP2-E70-0612 | 3/8 x 3/4 |
| * CP2-E95-0612 | 3/8 x 3/4 |
| * CP2-E95-0809 | 1/2 x 9/16 |

Nipple M/M Metric Port Adaptor DIN x JIC



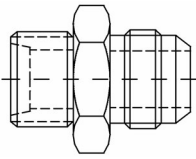
| P/Number | Thread |
|-----------|-----------------|
| CM2-0807 | 8x1.0 x 7/16 |
| CM2-0809 | 8x1.0 x 9/16 |
| CM2-1007 | 10x1.0 x 7/16 |
| CM2-1207 | 12x1.5 x 7/16 |
| CM2-1209 | 12x1.5 x 9/16 |
| CM2-1212 | 12x1.5 x 3/4 |
| CM2-1407 | 14x1.5 x 7/16 |
| CM2-1409 | 14x1.5 x 9/16 |
| CM2-1412 | 14x1.5 x 3/4 |
| CM2-1609 | 16x1.5 x 9/16 |
| CM2-1612 | 16x1.5 x 3/4 |
| CM2-1614 | 16x1.5 x 7/8 |
| CM2-1809 | 18x1.5 x 9/16 |
| CM2-1812 | 18x1.5 x 3/4 |
| CM2-1814 | 18x1.5 x 7/8 |
| CM2-1817 | 18x1.5 x 1-1/16 |
| ZCM2-2009 | 20x1.5 x 9/16 |
| CM2-2012 | 20x1.5 x 3/4 |
| CM2-2014 | 20x1.5 x 7/8 |
| CM2-2017 | 20x1.5 x 1-1/16 |
| CM2-2207 | 22x1.5 x 7/16 |
| CM2-2209 | 22x1.5 x 9/16 |
| CM2-2212 | 22x1.5 x 3/4 |
| CM2-2214 | 22x1.5 x 7/8 |
| CM2-2217 | 22x1.5 x 1-1/16 |
| CM2-2614 | 26x1.5 x 7/8 |
| CM2-2617 | 26x1.5 x 1-1/16 |
| CM2-2621 | 26x1.5 x 1-5/16 |
| CM2-2717 | 27x2.0 x 1-1/16 |
| CM2-2817 | 28x2.0 x 1-1/16 |
| CM2-2821 | 28x2.0 x 1-5/16 |
| CM2-3312 | 33x2.0 x 3/4 |
| CM2-3317 | 33x2.0 x 1-1/16 |
| CM2-3321 | 33x2.0 x 1-5/16 |
| CM2-3326 | 33x2.0 x 1-5/8 |
| CM2-4221 | 42x2.0 x 1-5/16 |
| CM2-4226 | 42x2.0 x 1-5/8 |
| CM2-4230 | 42x2.0 x 1-7/8 |
| CM2-4826 | 48x2.0 x 1-5/8 |
| CM2-4830 | 48x2.0 x 1-7/8 |

Section 4 Adaptors



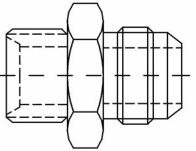
*Manufactured To Order (minimum qtys may apply)

Nipple M/M Metric Light x JIC



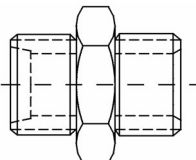
| P/Number..... | Tube OD..... | Thread |
|------------------|--------------|-----------------|
| * CM2L-1207..... | 6L..... | 12x1.5 x 7/16 |
| CM2L-1409..... | 8L..... | 14x1.5 x 9/16 |
| CM2L-1609..... | 10L..... | 16x1.5 x 9/16 |
| CM2L-1809..... | 12L..... | 18x1.5 x 9/16 |
| * CM2L-1812..... | 12L..... | 18x1.5 x 3/4 |
| CM2L-2212..... | 15L..... | 22x1.5 x 3/4 |
| * CM2L-2214..... | 15L..... | 22x1.5 x 7/8 |
| CM2L-2614..... | 18L..... | 26x1.5 x 7/8 |
| CM2L-2617..... | 18L..... | 26x1.5 x 1-1/16 |
| CM2L-3017..... | 22L..... | 30x2 x 1-1/16 |
| CM2L-3621..... | 28L..... | 36x2 x 1-5/16 |

Nipple M/M Metric Heavy x JIC



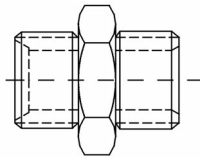
| P/Number..... | Tube OD..... | Thread |
|------------------|--------------|-----------------|
| * CM2S-1609..... | 6S..... | 16x1.5 x 9/16 |
| * CM2S-1809..... | 10S..... | 18x1.5 x 9/16 |
| * CM2S-1812..... | 10S..... | 18x1.5 x 3/4 |
| * CM2S-2012..... | 12S..... | 20x1.5 x 3/4 |
| * CM2S-2212..... | 14S..... | 22x1.5 x 3/4 |
| * CM2S-2412..... | 16S..... | 24x1.5 x 3/4 |
| * CM2S-2414..... | 16S..... | 24x1.5 x 7/8 |
| * CM2S-3017..... | 20S..... | 30x2.0 x 1-1/16 |
| * CM2S-3617..... | 25S..... | 36x2.0 x 1-1/16 |
| * CM2S-3621..... | 25S..... | 36x2.0 x 1-5/16 |

Nipple M/M Metric Tube Adaptor Light Series DKL x BSPP



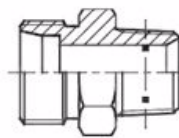
| P/Number..... | Tube OD..... | Thread |
|-------------------|--------------|--------------|
| * CMP2L-1404..... | 8L..... | 14x1.5 x 1/4 |
| * CMP2L-1606..... | 10L..... | 16x1.5 x 3/8 |
| * CMP2L-1808..... | 12L..... | 18x1.5 x 1/2 |
| * CMP2L-2212..... | 15L..... | 22x1.5 x 3/4 |
| CMP2L-2608..... | 18L..... | 26x1.5 x 1/2 |
| CMP2L-2612..... | 18L..... | 26x1.5 x 3/4 |
| CMP2L-3012..... | 22L..... | 30x2.0 x 3/4 |
| CMP2L-3616..... | 28L..... | 36x2.0 x 1 |

Nipple M/M Metric Tube Adaptor Strong Series DKS x BSPP



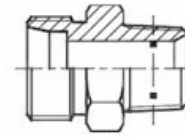
| P/Number..... | Tube OD..... | Thread |
|-------------------|--------------|----------------|
| * CMP2S-1604..... | 8S..... | 16x1.5 x 1/4 |
| * CMP2S-1804..... | 10S..... | 18x1.5 x 1/4 |
| * CMP2S-1806..... | 10S..... | 18x1.5 x 3/8 |
| * CMP2S-2006..... | 12S..... | 20x1.5 x 3/8 |
| * CMP2S-2208..... | 14S..... | 22x1.5 x 1/2 |
| * CMP2S-2406..... | 16S..... | 24x1.5 x 3/8 |
| * CMP2S-2408..... | 16S..... | 24x1.5 x 1/2 |
| * CMP2S-3012..... | 20S..... | 30x2.0 x 3/4 |
| * CMP2S-3612..... | 25S..... | 36x2.0 x 3/4 |
| * CMP2S-4220..... | 30S..... | 42x2.0 x 1-1/4 |
| * CMP2S-5224..... | 38S..... | 52x2.0 x 1-1/2 |

Nipple M/M Metric Light x BSPT



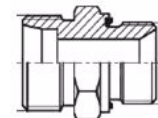
| P/Number..... | Tube OD..... | Thread |
|-----------------|--------------|--------------|
| CMB2L-1204..... | 6L..... | 12x1.5 x 1/4 |
| CMB2L-1404..... | 8L..... | 14x1.5 x 1/4 |
| CMB2L-1406..... | 8L..... | 14x1.5 x 3/8 |
| CMB2L-1606..... | 10L..... | 16x1.5 x 3/8 |
| CMB2L-1806..... | 12L..... | 18x1.5 x 3/8 |
| CMB2L-1808..... | 12L..... | 18x1.5 x 1/2 |
| CMB2L-2208..... | 15L..... | 22x1.5 x 1/2 |
| CMB2L-2608..... | 18L..... | 26x1.5 x 1/2 |
| CMB2L-2612..... | 18L..... | 26x1.5 x 3/4 |
| CMB2L-3012..... | 22L..... | 30x2 x 3/4 |
| CMB2L-3616..... | 28L..... | 36x2 x 1 |

Nipple M/M Metric Heavy x BSPT



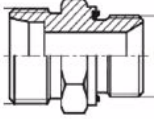
| P/Number..... | Tube OD..... | Thread |
|-----------------|--------------|--------------|
| CMB2S-1404..... | 6S..... | 14x1.5 x 1/4 |
| CMB2S-1604..... | 8S..... | 16x1.5 x 1/4 |
| CMB2S-1806..... | 10S..... | 18x1.5 x 3/8 |
| CMB2S-1808..... | 10S..... | 18x1.5 x 1/2 |
| CMB2S-2006..... | 12S..... | 20x1.5 x 3/8 |
| CMB2S-2008..... | 12S..... | 20x1.5 x 1/2 |
| CMB2S-2206..... | 14S..... | 22x1.5 x 3/8 |
| CMB2S-2208..... | 14S..... | 22x1.5 x 1/2 |
| CMB2S-2406..... | 16S..... | 24x1.5 x 3/8 |
| CMB2S-2408..... | 16S..... | 24x1.5 x 1/2 |
| CMB2S-3008..... | 20S..... | 30x2 x 1/2 |
| CMB2S-3012..... | 20S..... | 30x2 x 3/4 |
| CMB2S-3616..... | 25S..... | 36x2 x 1 |

Nipple M/M Metric Light x BSPP Encapsulated Seal



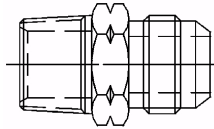
| P/Number..... | Tube OD..... | Thread |
|-----------------|--------------|--------------|
| CMR2L-1204..... | 6L..... | 12x1.5 x 1/4 |
| CMR2L-1404..... | 8L..... | 14x1.5 x 1/4 |
| CMR2L-1604..... | 10L..... | 16x1.5 x 1/4 |
| CMR2L-1606..... | 10L..... | 16x1.5 x 3/8 |
| CMR2L-1806..... | 12L..... | 18x1.5 x 3/8 |
| CMR2L-1808..... | 12L..... | 18x1.5 x 1/2 |
| CMR2L-2206..... | 15L..... | 22x1.5 x 3/8 |
| CMR2L-2208..... | 15L..... | 22x1.5 x 1/2 |
| CMR2L-2212..... | 15L..... | 22x1.5 x 3/4 |
| CMR2L-2608..... | 18L..... | 26x1.5 x 1/2 |
| CMR2L-2612..... | 18L..... | 26x1.5 x 3/4 |
| CMR2L-3616..... | 28L..... | 36x2 x 1 |
| CMR2L-4520..... | 35L..... | 45x2 x 1-1/4 |

Nipple M/M Metric Heavy x BSPP Encapsulated Seal



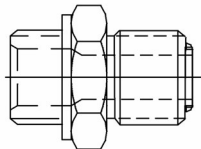
| P/Number | Tube OD | Thread |
|------------|---------|--------------|
| CMR2S-1604 | 8S | 16x1.5 x 1/4 |
| CMR2S-1606 | 8S | 16x1.5 x 3/8 |
| CMR2S-1804 | 10S | 18x1.5 x 1/4 |
| CMR2S-1806 | 10S | 18x1.5 x 3/8 |
| CMR2S-1808 | 18S | 18x1.5 x 1/2 |
| CMR2S-2206 | 14S | 22x1.5 x 3/8 |
| CMR2S-2208 | 14S | 22x1.5 x 1/2 |
| CMR2S-2408 | 16S | 24x1.5 x 1/2 |
| CMR2S-2412 | 16S | 24x1.5 x 3/4 |
| CMR2S-3008 | 20S | 30x2 x 1/2 |
| CMR2S-3012 | 20S | 30x2 x 3/4 |
| CMR2S-3612 | 25S | 36x2 x 3/4 |

Nipple M/M NPTF x JIC



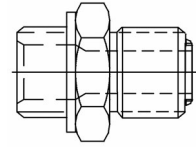
| P/Number | Thread |
|------------|----------------|
| CN2-0207 | 1/8 x 7/16 |
| CN2-0208 | 1/8 x 1/2 |
| CN2-0209 | 1/8 x 9/16 |
| CN2-0407 | 1/4 x 7/16 |
| CN2-0408 | 1/4 x 1/2 |
| CN2-0409 | 1/4 x 9/16 |
| CN2-0412 | 1/4 x 3/4 |
| CN2-0607 | 3/8 x 7/16 |
| * CN2-0608 | 3/8 x 1/2 |
| CN2-0609 | 3/8 x 9/16 |
| CN2-0612 | 3/8 x 3/4 |
| CN2-0614 | 3/8 x 7/8 |
| CN2-0617 | 3/8 x 1-1/16 |
| CN2-0807 | 1/2 x 7/16 |
| CN2-0809 | 1/2 x 9/16 |
| CN2-0812 | 1/2 x 3/4 |
| CN2-0814 | 1/2 x 7/8 |
| CN2-0817 | 1/2 x 1-1/16 |
| CN2-1207 | 3/4 x 7/16 |
| CN2-1209 | 3/4 x 9/16 |
| CN2-1212 | 3/4 x 3/4 |
| CN2-1214 | 3/4 x 7/8 |
| CN2-1217 | 3/4 x 1-1/16 |
| * CN2-1219 | 3/4 x 1-3/16 |
| CN2-1221 | 3/4 x 1-5/16 |
| * CN2-1226 | 3/4 x 1-5/8 |
| CN2-1614 | 1 x 7/8 |
| CN2-1617 | 1 x 1-1/16 |
| CN2-1621 | 1 x 1-5/16 |
| CN2-1626 | 1 x 1-5/8 |
| CN2-2017 | 1-1/4 x 1-1/16 |
| CN2-2021 | 1-1/4 x 1-5/16 |
| * CN2-2026 | 1-1/4 x 1-5/8 |
| CN2-2030 | 1-1/4 x 1-7/8 |
| CN2-2426 | 1-1/2 x 1-5/8 |
| * CN2-2430 | 1-1/2 x 1-7/8 |
| CN2-3230 | 2 x 1-7/8 |
| CN2-3240 | 2 x 2-1/2 |

Nipple M/M BSPP x ORFS



| P/Number | Thread |
|----------|--------------|
| FP2-0409 | 1/4 x 9/16 |
| FP2-0611 | 3/8 x 11/16 |
| FP2-0811 | 1/2 x 11/16 |
| FP2-0813 | 1/2 x 13/16 |
| FP2-0816 | 1/2 x 1 |
| FP2-0819 | 1/2 x 1-3/16 |
| FP2-1216 | 3/4 x 1 |
| FP2-1219 | 3/4 x 1-3/16 |
| FP2-1623 | 1 x 1-7/16 |

Nipple M/M BSPP Encapsulated Seal x ORFS



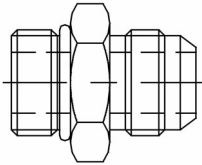
| P/Number | Thread |
|-----------|-------------|
| FR2-0813 | 1/2 x 13/16 |
| FR2-01216 | 3/4 x 1 |

Section 4 Adaptors



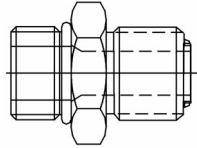
*Manufactured To Order (minimum qtys may apply)

Nipple M/M UNO x JIC



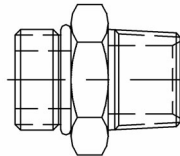
| P/Number..... | Thread |
|----------------|-----------------|
| C3-0609..... | 3/8 x 9/16 |
| C3-0707..... | 7/16 x 7/16 |
| C3-0709..... | 7/16 x 9/16 |
| C3-0712..... | 7/16 x 3/4 |
| C3-0807..... | 1/2 x 7/16 |
| C3-0808..... | 1/2 x 1/2 |
| C3-0809..... | 1/2 x 9/16 |
| C3-0907..... | 9/16 x 7/16 |
| * C3-0908..... | 9/16 x 1/2 |
| C3-0909..... | 9/16 x 9/16 |
| C3-0912..... | 9/16 x 3/4 |
| C3-0914..... | 9/16 x 7/8 |
| C3-1207..... | 3/4 x 7/16 |
| C3-1208..... | 3/4 x 1/2 |
| C3-1209..... | 3/4 x 9/16 |
| C3-1212..... | 3/4 x 3/4 |
| C3-1214..... | 3/4 x 7/8 |
| C3-1217..... | 3/4 x 1-1/16 |
| C3-1221..... | 3/4 x 1-5/16 |
| C3-1409..... | 7/8 x 9/16 |
| C3-1412..... | 7/8 x 3/4 |
| C3-1414..... | 7/8 x 7/8 |
| C3-1417..... | 7/8 x 1-1/16 |
| C3-1421..... | 7/8 x 1-5/16 |
| C3-1707..... | 1-1/16 x 7/16 |
| C3-1709..... | 1-1/16 x 9/16 |
| C3-1712..... | 1-1/16 x 3/4 |
| C3-1714..... | 1-1/16 x 7/8 |
| C3-1717..... | 1-1/16 x 1-1/16 |
| C3-1721..... | 1-1/16 x 1-5/16 |
| C3-1917..... | 1-3/16 x 1-1/16 |
| C3-1919..... | 1-3/16 x 1-3/16 |
| C3-2112..... | 1-5/16 x 3/4 |
| C3-2114..... | 1-5/16 x 7/8 |
| C3-2117..... | 1-5/16 x 1-1/16 |
| C3-2119..... | 1-5/16 x 1-3/16 |
| C3-2121..... | 1-5/16 x 1-5/16 |
| C3-2126..... | 1-5/16 x 1-5/8 |
| C3-2617..... | 1-5/8 x 1-1/16 |
| C3-2621..... | 1-5/8 x 1-5/16 |
| C3-2626..... | 1-5/8 x 1-5/8 |
| C3-2630..... | 1-5/8 x 1-7/8 |
| C3-3021..... | 1-7/8 x 1-5/16 |
| C3-3026..... | 1-7/8 x 1-5/8 |
| C3-3030..... | 1-7/8 x 1-7/8 |
| * C3-3040..... | 1-7/8 x 2-1/2 |
| * C3-4030..... | 2-1/2 x 1-7/8 |
| * C3-4040..... | 2-1/2 x 2-1/2 |

Nipple M/M UNO x ORFS



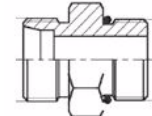
| P/Number..... | Thread |
|----------------|-----------------|
| F3-0709..... | 7/16 x 9/16 |
| F3-0711..... | 7/16 x 11/16 |
| F3-0909..... | 9/16 x 9/16 |
| F3-0911..... | 9/16 x 11/16 |
| * F3-1211..... | 3/4 x 11/16 |
| F3-1213..... | 3/4 x 13/16 |
| F3-1416..... | 7/8 x 1 |
| F3-1719..... | 1-1/16 x 1-3/16 |
| F3-1723..... | 1-1/16 x 1-7/16 |
| F3-2123..... | 1-5/16 x 1-7/16 |

Nipple M/M UNO x BSPT



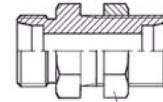
| P/Number..... | Thread |
|---------------|----------------|
| CB3-0704..... | 7/16 x 1/4 |
| CB3-0904..... | 9/16 x 1/4 |
| CB3-0906..... | 9/16 x 3/8 |
| CB3-0908..... | 9/16 x 1/2 |
| CB3-1204..... | 3/4 x 1/4 |
| CB3-1206..... | 3/4 x 3/8 |
| CB3-1208..... | 3/4 x 1/2 |
| CB3-1212..... | 3/4 x 3/4 |
| CB3-1404..... | 7/8 x 1/4 |
| CB3-1406..... | 7/8 x 3/8 |
| CB3-1408..... | 7/8 x 1/2 |
| CB3-1412..... | 7/8 x 3/4 |
| CB3-1708..... | 1-1/16 x 1/2 |
| CB3-1712..... | 1-1/16 x 3/4 |
| CB3-1716..... | 1-1/16 x 1 |
| CB3-1912..... | 1-3/16 x 3/4 |
| CB3-2108..... | 1-5/16 x 1/2 |
| CB3-2112..... | 1-5/16 x 3/4 |
| CB3-2116..... | 1-5/16 x 1 |
| CB3-2120..... | 1-5/16 x 1-1/4 |
| CB3-2616..... | 1-5/8 x 1 |
| CB3-2620..... | 1-5/8 x 1-1/4 |
| CB3-2624..... | 1-5/8 x 1-1/2 |
| CB3-3024..... | 1-7/8 x 1-1/2 |

Nipple M/M Metric Light x UNO



| P/Number..... | Tube OD..... | Thread |
|----------------|--------------|---------------|
| CM3L-1409..... | 8L..... | 14x1.5 x 9/16 |
| CM3L-1609..... | 10L..... | 16x1.5 x 9/16 |
| CM3L-1812..... | 12L..... | 18x1.5 x 3/4 |
| CM3L-2212..... | 15L..... | 22x1.5 x 3/4 |
| CM3L-3017..... | 22L..... | 30X2 x 1-1/16 |

Bulkhead Nipple M/M Metric Light



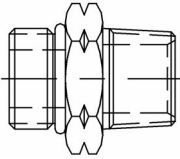
| P/Number..... | Tube OD..... | Thread |
|----------------|--------------|--------|
| CM6L-1212..... | 6L..... | 12x1.5 |
| CM6L-1414..... | 8L..... | 14x1.5 |
| CM6L-1616..... | 10L..... | 16x1.5 |
| CM6L-1818..... | 12L..... | 18x1.5 |
| CM6L-2222..... | 15L..... | 22x1.5 |
| CM6L-2626..... | 18L..... | 26x1.5 |
| CM6L-3030..... | 22L..... | 30x2 |
| CM6L-3636..... | 28L..... | 36x2 |
| CM6L-4545..... | 35L..... | 45x2 |

Bulkhead Nipple M/M Metric Heavy



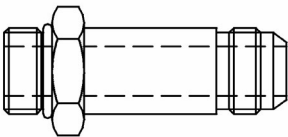
| P/Number..... | Tube OD..... | Thread |
|----------------|--------------|--------|
| CM6S-1414..... | 6S..... | 14x1.5 |
| CM6S-1616..... | 8S..... | 16x1.5 |
| CM6S-1818..... | 10S..... | 18x1.5 |
| CM6S-2020..... | 12S..... | 20x1.5 |
| CM6S-2222..... | 14S..... | 22x1.5 |
| CM6S-2424..... | 16S..... | 24x1.5 |
| CM6S-3030..... | 20S..... | 30x2 |
| CM6S-3636..... | 25S..... | 36x2 |
| CM6S-4242..... | 30S..... | 42x2 |

Nipple M/M UNO x NPTF



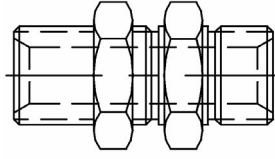
| P/Number | Thread |
|------------|----------------|
| CN3-0904 | 9/16 x 1/4 |
| CN3-0906 | 9/16 x 3/8 |
| CN3-1204 | 3/4 x 1/4 |
| CN3-1206 | 3/4 x 3/8 |
| CN3-1208 | 3/4 x 1/2 |
| CN3-1404 | 7/8 x 1/4 |
| CN3-1406 | 7/8 x 3/8 |
| * CN3-1408 | 7/8 x 1/2 |
| * CN3-1412 | 7/8 x 3/4 |
| CN3-1708 | 1-1/16 x 1/2 |
| * CN3-1712 | 1-1/16 x 3/4 |
| CN3-1716 | 1-1/16 x 1 |
| CN3-2112 | 1-5/16 x 3/4 |
| * CN3-2116 | 1-5/16 x 1 |
| CN3-2120 | 1-5/16 x 1-1/4 |
| * CN3-2616 | 1-5/8 x 1 |
| * CN3-2620 | 1-5/8 x 1-1/4 |
| CN3-2624 | 1-5/8 x 1-1/2 |
| * CN3-3024 | 1-7/8 x 1-1/2 |

Extended Nipple M/M UNO x JIC



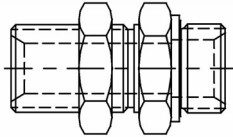
| P/Number | Thread |
|-----------|-----------------|
| * C4-0707 | 7/16 x 7/16 |
| C4-0808 | 1/2 x 1/2 |
| * C4-0907 | 9/16 x 7/16 |
| C4-0909 | 9/16 x 9/16 |
| C4-1212 | 3/4 x 3/4 |
| C4-1412 | 7/8 x 3/4 |
| C4-1414 | 7/8 x 7/8 |
| * C4-1417 | 7/8 x 1-1/16 |
| * C4-1714 | 1-1/16 x 7/8 |
| C4-1717 | 1-1/16 x 1-1/16 |
| * C4-2117 | 1-5/16 x 1-1/16 |
| C4-2121 | 1-5/16 x 1-5/16 |
| * C4-2626 | 1-5/8 x 1-5/8 |

Bulkhead Nipple M/M BSPP x BSPP



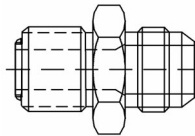
| P/Number | Thread |
|----------|---------------|
| CP6-0404 | 1/4 x 1/4 |
| CP6-0606 | 3/8 x 3/8 |
| CP6-0808 | 1/2 x 1/2 |
| CP6-1212 | 3/4 x 3/4 |
| CP6-1616 | 1 x 1 |
| CP6-2020 | 1-1/4 x 1-1/4 |

Bulkhead Nipple M/M BSPP x BSPP Encapsulated Seal



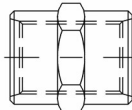
| P/number | Thread |
|------------|-----------|
| * CR6-0404 | 1/4 x 1/4 |
| CR6-0606 | 3/8 x 3/8 |
| CR6-0808 | 1/2 x 1/2 |
| CR6-1212 | 3/4 x 3/4 |
| CR6-1616 | 1 x 1 |

Nipple M/M ORFS x JIC



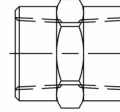
| P/Number | Thread |
|----------|-----------------|
| F7-0907 | 9/16 x 7/16 |
| F7-1109 | 11/16 x 9/16 |
| F7-1312 | 13/16 x 3/4 |
| F7-1314 | 13/16 x 7/8 |
| F7-1614 | 1 x 7/8 |
| F7-1917 | 1-3/16 x 1-1/16 |
| F7-2321 | 1-7/16 x 1-5/16 |

Socket F/F UNO



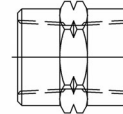
| P/Number | Thread |
|-----------|-----------------|
| C9-0707 | 7/16 x 7/16 |
| C9-0909 | 9/16 x 9/16 |
| C9-1212 | 3/4 x 3/4 |
| C9-1414 | 7/8 x 7/8 |
| C9-1717 | 1-1/16 x 1-1/16 |
| C9-2121 | 1-5/16 x 1-5/16 |
| * C9-2626 | 1-5/8 x 1-5/8 |

Socket F/F BSPT



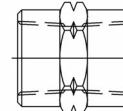
| P/Number | Thread |
|----------|---------------|
| CB9-0202 | 1/8 x 1/8 |
| CB9-0402 | 1/4 x 1/8 |
| CB9-0404 | 1/4 x 1/4 |
| CB9-0602 | 3/8 x 1/8 |
| CB9-0604 | 3/8 x 1/4 |
| CB9-0606 | 3/8 x 3/8 |
| CB9-0804 | 1/2 x 1/4 |
| CB9-0806 | 1/2 x 3/8 |
| CB9-0808 | 1/2 x 1/2 |
| CB9-1208 | 3/4 x 1/2 |
| CB9-1212 | 3/4 x 3/4 |
| CB9-1612 | 1 x 3/4 |
| CB9-1616 | 1 x 1 |
| CB9-2020 | 1-1/4 x 1-1/4 |
| CB9-2424 | 1-1/2 x 1-1/2 |
| CB9-3232 | 2 x 2 |
| CB9-4040 | 2-1/2 x 2-1/2 |

Socket F/F NPTF



| P/Number | Thread |
|------------|---------------|
| CN9-0202 | 1/8 x 1/8 |
| CN9-0404 | 1/4 x 1/4 |
| CN9-0606 | 3/8 x 3/8 |
| CN9-0808 | 1/2 x 1/2 |
| CN9-1212 | 3/4 x 3/4 |
| CN9-1616 | 1 x 1 |
| CN9-2020 | 1-1/4 x 1-1/4 |
| CN9-2424 | 1-1/2 x 1-1/2 |
| CN9-3232 | 2 x 2 |
| * CN9-4040 | 2-1/2 x 2-1/2 |
| * CN9-4848 | 3 x 3 |

Socket F/F BSPP



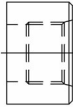
| P/Number | Thread |
|----------|---------------|
| CP9-0404 | 1/4 x 1/4 |
| CP9-0606 | 3/8 x 3/8 |
| CP9-0808 | 1/2 x 1/2 |
| CP9-1212 | 3/4 x 3/4 |
| CP9-1616 | 1 x 1 |
| CP9-2020 | 1-1/4 x 1-1/4 |
| CP9-2424 | 1-1/2 x 1-1/2 |
| CP9-3232 | 2 x 2 |

Section 4 Adaptors



*Manufactured To Order (minimum qtys may apply)

Half Socket F UNO



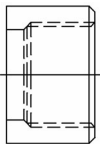
| P/Number..... | Thread |
|---------------|--------|
| C14-07..... | 7/16 |
| C14-08..... | 1/2 |
| C14-09..... | 9/16 |
| C14-12..... | 3/4 |
| C14-14..... | 7/8 |
| C14-17..... | 1-1/16 |
| C14-21..... | 1-5/16 |
| C14-26..... | 1-5/8 |

Half Socket F BSPT



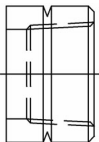
| P/Number..... | Thread |
|---------------|--------|
| CB14-02..... | 1/8 |
| CB14-04..... | 1/4 |
| CB14-06..... | 3/8 |
| CB14-08..... | 1/2 |
| CB14-12..... | 3/4 |
| CB14-16..... | 1 |
| CB14-20..... | 1-1/4 |
| CB14-24..... | 1-1/2 |
| CB14-32..... | 2 |

Half Socket F BSPP



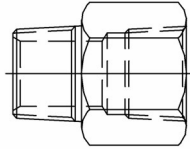
| P/Number..... | Thread |
|----------------|--------|
| * CP14-06..... | 3/8 |
| CP14-08..... | 1/2 |
| CP14-12..... | 3/4 |
| CP14-16..... | 1 |
| * CP14-20..... | 1-1/4 |

Half Socket F NPTF



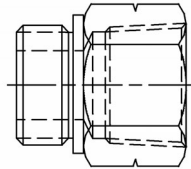
| P/Number..... | Thread |
|----------------|--------|
| CN14-02..... | 1/8 |
| CN14-04..... | 1/4 |
| CN14-06..... | 3/8 |
| CN14-08..... | 1/2 |
| CN14-12..... | 3/4 |
| CN14-16..... | 1 |
| * CN14-20..... | 1-1/4 |
| * CN14-24..... | 1-1/2 |
| CN14-32..... | 2 |

Adaptor Fixed M/F BSPT x BSPT



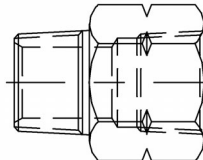
| P/Number..... | Thread |
|----------------|-----------|
| CB18-0202..... | 1/8 x 1/8 |
| CB18-0204..... | 1/8 x 1/4 |
| CB18-0404..... | 1/4 x 1/4 |
| CB18-0406..... | 1/4 x 3/8 |
| CB18-0606..... | 3/8 x 3/8 |
| CB18-0608..... | 3/8 x 1/2 |
| CB18-0808..... | 1/2 x 1/2 |
| CB18-0812..... | 1/2 x 3/4 |
| CB18-1212..... | 3/4 x 3/4 |
| CB18-1616..... | 1 x 1 |

Adaptor Fixed M/F BSPP x NPTF



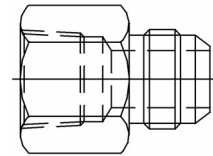
| P/Number..... | Thread |
|-----------------|-----------|
| CPN18-2016..... | 1-1/4 x 1 |

Adaptor Fixed M/F NPTF x NPTF



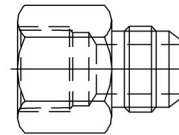
| P/Number..... | Thread |
|------------------|---------------|
| CN18-0202..... | 1/8 x 1/8 |
| CN18-0204..... | 1/8 x 1/4 |
| CN18-0404..... | 1/4 x 1/4 |
| CN18-0406..... | 1/4 x 3/8 |
| CN18-0606..... | 3/8 x 3/8 |
| CN18-0608..... | 3/8 x 1/2 |
| CN18-0808..... | 1/2 x 1/2 |
| CN18-0812..... | 1/2 x 3/4 |
| CN18-1212..... | 3/4 x 3/4 |
| * CN18-1616..... | 1 x 1 |
| * CN18-2020..... | 1-1/4 x 1-1/4 |
| * CN18-2424..... | 1-1/2 x 1-1/2 |

Adaptor Fixed F/M BSPT x JIC



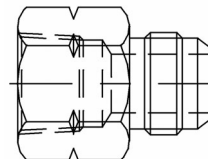
| P/Number..... | Thread |
|----------------|--------------|
| CB20-0207..... | 1/8 x 7/16 |
| CB20-0209..... | 1/8 x 9/16 |
| CB20-0407..... | 1/4 x 7/16 |
| CB20-0408..... | 1/4 x 1/2 |
| CB20-0409..... | 1/4 x 9/16 |
| CB20-0609..... | 3/8 x 9/16 |
| CB20-0612..... | 3/8 x 3/4 |
| CB20-0809..... | 1/2 x 9/16 |
| CB20-0812..... | 1/2 x 3/4 |
| CB20-0814..... | 1/2 x 7/8 |
| CB20-0817..... | 1/2 x 1-1/16 |
| CB20-1217..... | 3/4 x 1-1/16 |
| CB20-1621..... | 1 x 1-5/16 |

Gauge Adaptor Fixed F/M BSPP x JIC



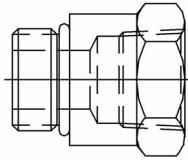
| P/Number..... | Thread |
|-----------------|------------|
| CP20-0407G..... | 1/4 x 7/16 |
| CP20-0409G..... | 1/4 x 9/16 |
| CP20-0809G..... | 1/2 x 9/16 |

Adaptor Fixed F/M NPTF x JIC



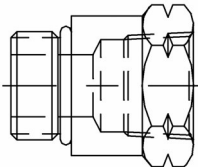
| P/Number..... | Thread |
|------------------|---------------|
| CN20-0207..... | 1/8 x 7/16 |
| CN20-0208..... | 1/8 x 1/2 |
| CN20-0209..... | 1/8 x 9/16 |
| CN20-0407..... | 1/4 x 7/16 |
| CN20-0408..... | 1/4 x 1/2 |
| CN20-0409..... | 1/4 x 9/16 |
| CN20-0609..... | 3/8 x 9/16 |
| CN20-0612..... | 3/8 x 3/4 |
| CN20-0812..... | 1/2 x 3/4 |
| CN20-0814..... | 1/2 x 7/8 |
| CN20-1217..... | 3/4 x 1-1/16 |
| * CN20-1621..... | 1 x 1-5/16 |
| * CN20-2026..... | 1-1/4 x 1-5/8 |
| * CN20-2430..... | 1-1/2 x 1-7/8 |
| CN20-3240..... | 2 x 2-1/2 |

Adaptor Fixed M/F UNO x BSPT



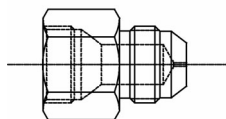
| P/Number | Thread |
|-----------|--------------|
| CB21-0704 | 7/16 x 1/4 |
| CB21-0904 | 9/16 x 1/4 |
| CB21-0906 | 9/16 x 3/8 |
| CB21-1206 | 3/4 x 3/8 |
| CB21-1208 | 3/4 x 1/2 |
| CB21-1406 | 7/8 x 3/8 |
| CB21-1408 | 7/8 x 1/2 |
| CB21-1708 | 1-1/16 x 1/2 |
| CB21-1712 | 1-1/16 x 3/4 |

Adaptor Fixed M/F UNO x NPTF



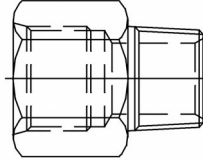
| P/Number | Thread |
|-------------|---------------|
| * CN21-0704 | 7/16 x 1/4 |
| * CN21-0904 | 9/16 x 1/4 |
| * CN21-0906 | 9/16 x 3/8 |
| * CN21-1206 | 3/4 x 3/8 |
| CN21-1208 | 3/4 x 1/2 |
| CN21-1406 | 7/8 x 3/8 |
| * CN21-1408 | 7/8 x 1/2 |
| * CN21-1708 | 1-1/16 x 1/2 |
| * CN21-1712 | 1-1/16 x 3/4 |
| * CN21-1716 | 1-1/16 x 1 |
| * CN21-2112 | 1-5/16 x 3/4 |
| * CN21-2116 | 1-5/16 x 1 |
| * CN21-2616 | 1-5/8 x 1 |
| * CN21-2620 | 1-5/8 x 1-1/4 |

Adaptor Fixed F/M JIC x JIC



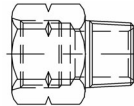
| P/Number | Thread |
|---------------------------|-----------------|
| C22-0707 | 7/16 x 7/16 |
| C22-0909 | 9/16 x 9/16 |
| C22-1207 | 3/4 x 7/16 |
| C22-1212 | 3/4 x 3/4 |
| C22-1409 | 7/8 x 9/16 |
| C22-1412 | 7/8 x 3/4 |
| * C22-1414 | 7/8 x 7/8 |
| C22-1717 | 1-1/16 x 1-1/16 |
| C22-2121 | 1-5/16 x 1-5/16 |
| C22-0707Z (0.6mm orifice) | 7/16x7/16 |
| C22-0909Z (0.9mm orifice) | 9/16x9/16 |
| C22-0909Z (1.2mm orifice) | 9/16x9/16 |
| C22-1212Z (0.9mm orifice) | 3/4x3/4 |
| C22-1212Z (1.5mm orifice) | 3/4x3/4 |
| C22-1414Z (1.2mm orifice) | 7/8x7/8 |

Adaptor Fixed F/M UNO x BSPT



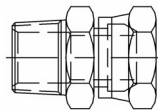
| P/Number | Thread |
|-----------|--------------|
| CB22-0906 | 9/16 x 3/8 |
| CB22-1206 | 3/4 x 3/8 |
| CB22-1208 | 3/4 x 1/2 |
| CB22-1406 | 7/8 x 3/8 |
| CB22-1408 | 7/8 x 1/2 |
| CB22-1712 | 1-1/16 x 3/4 |
| CB22-2116 | 1-5/16 x 1 |

Adaptor F/M UNO x NPTF



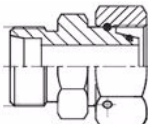
| P/Number | Thread |
|-----------|--------------|
| CN22-1712 | 1-1/16 x 3/4 |

Straight Union M/F BSPT x BSPP



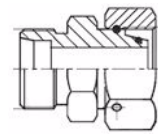
| P/Number | Thread |
|-----------|---------------|
| CB24-0202 | 1/8 x 1/8 |
| CB24-0404 | 1/4 x 1/4 |
| CB24-0606 | 3/8 x 3/8 |
| CB24-0608 | 3/8 x 1/2 |
| CB24-0806 | 1/2 x 3/8 |
| CB24-0808 | 1/2 x 1/2 |
| CB24-0812 | 1/2 x 3/4 |
| CB24-1212 | 3/4 x 3/4 |
| CB24-1216 | 3/4 x 1 |
| CB24-1616 | 1 x 1 |
| CB24-1620 | 1 x 1-1/4 |
| CB24-1624 | 1 x 1-1/2 |
| CB24-2016 | 1-1/4 x 1 |
| CB24-2020 | 1-1/4 x 1-1/4 |
| CB24-2424 | 1-1/2 x 1-1/2 |

Straight Union M/F Metric Light



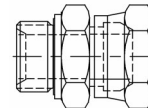
| P/Number | Tube OD | Thread |
|------------|---------|-----------------|
| CM24L-1214 | 6-8L | 12x1.5 x 14x1.5 |
| CM24L-1416 | 8-10L | 14x1.5 x 16x1.5 |
| CM24L-1618 | 10-12L | 16x1.5 x 18x1.5 |
| CM24L-1822 | 12-15L | 18x1.5 x 22x1.5 |
| CM24L-2226 | 15-18L | 22x1.5 x 26x1.5 |
| CM24L-2630 | 18-22L | 26x1.5 x 30x2 |
| CM24L-3036 | 22-28L | 30x2 x 36x2 |

Straight Union M/F Metric Heavy



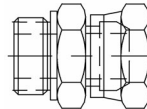
| P/Number | Tube OD | Thread |
|------------|---------|-----------------|
| CM24S-1416 | 6-8S | 14x1.5 x 16x1.5 |
| CM24S-1618 | 8-10S | 16x1.5 x 18x1.5 |
| CM24S-1820 | 10-12S | 18x1.5 x 20x1.5 |
| CM24S-2022 | 12-14S | 20x1.5 x 22x1.5 |
| CM24S-2224 | 14-16S | 22x1.5 x 24x1.5 |
| CM24S-2430 | 16-20S | 24x1.5 x 30x2 |
| CM24S-3036 | 20-25S | 30x2 x 36x2 |

Straight Union M/F BSP x BSPP Encapsulated Seal



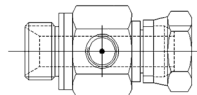
| P/Number | Thread |
|-------------|---------------|
| * CR24-0404 | 1/4 x 1/4 |
| * CR24-0606 | 3/8 x 3/8 |
| CR24-0608 | 3/8 x 1/2 |
| CR24-0808 | 1/2 x 1/2 |
| * CR24-1212 | 3/4 x 3/4 |
| * CR24-1616 | 1 x 1 |
| * CR24-2020 | 1-1/4 x 1-1/4 |

Straight Union M/F BSPP x BSPP



| P/Number | Thread |
|-------------|---------------|
| CP24-0404 | 1/4 x 1/4 |
| CP24-0606 | 3/8 x 3/8 |
| CP24-0608 | 3/8 x 1/2 |
| CP24-0808 | 1/2 x 1/2 |
| CP24-1212 | 3/4 x 3/4 |
| CP24-1616 | 1 x 1 |
| * CP24-1620 | 1 x 1-1/4 |
| CP24-2020 | 1-1/4 x 1-1/4 |

Straight Union M/F BSPP x BSPP with 7/16" UNO Gauge Point



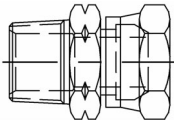
| P/Number | Thread |
|--------------|----------------------|
| CP24G-040407 | 1/4 x 1/4 x 7/16 |
| CP24G-060607 | 3/8 x 3/8 x 7/16 |
| CP24G-080807 | 1/2 x 1/2 x 7/16 |
| CP24G-121207 | 3/4 x 3/4 x 7/16 |
| CP24G-161607 | 1 x 1 x 7/16 |
| CP24G-202007 | 1-1/4 x 1-1/4 x 7/16 |

Section 4 Adaptors



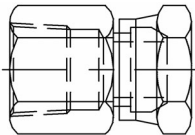
*Manufactured To Order (minimum qty's may apply)

Straight Union M/F NPTF x NPSM



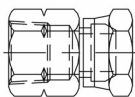
| P/Number | Thread |
|-------------|---------------|
| CN24-0202 | 1/8 x 1/8 |
| CN24-0404 | 1/4 x 1/4 |
| CN24-0606 | 3/8 x 3/8 |
| * CN24-0608 | 3/8 x 1/2 |
| CN24-0808 | 1/2 x 1/2 |
| CN24-1212 | 3/4 x 3/4 |
| CN24-1616 | 1 x 1 |
| CN24-2020 | 1-1/4 x 1-1/4 |
| CN24-2424 | 1-1/2 x 1-1/2 |

Straight Union F/F BSPT x BSPP



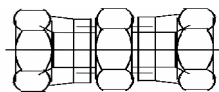
| P/Number | Thread |
|-----------|-----------|
| CB25-0404 | 1/4 x 1/4 |
| CB25-0606 | 3/8 x 3/8 |
| CB25-0808 | 1/2 x 1/2 |
| CB25-1212 | 3/4 x 3/4 |
| CB25-1616 | 1 x 1 |

Straight Union F/F NPTF x NPSM



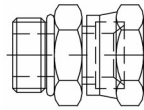
| P/Number | Thread |
|-------------|-----------|
| * CN25-0404 | 1/4 x 1/4 |
| CN25-0606 | 3/8 x 3/8 |
| CN25-0808 | 1/2 x 1/2 |
| CN25-1212 | 3/4 x 3/4 |
| CN25-1616 | 1 x 1 |

Straight Union F/F Swivel x JIC



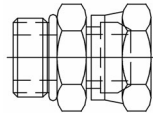
| P/Number | Thread |
|-------------|-----------------|
| CS25-0707 | 7/16 x 7/16 |
| CS25-0909 | 9/16 x 9/16 |
| * CS25-1212 | 3/4 x 3/4 |
| * CS25-1414 | 7/8 x 7/8 |
| * CS25-1717 | 1-1/16 x 1-1/16 |
| * CS25-2121 | 1-5/16 x 1-5/16 |

Straight Union M/F UNO x JIC



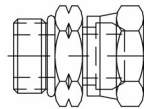
| P/Number | Thread |
|------------|-----------------|
| C26-0707 | 7/16 x 7/16 |
| C26-0909 | 9/16 x 9/16 |
| C26-0912 | 9/16 x 3/4 |
| C26-1209 | 3/4 x 9/16 |
| C26-1212 | 3/4 x 3/4 |
| C26-1414 | 7/8 x 7/8 |
| C26-1417 | 7/8 x 1-1/16 |
| C26-1717 | 1-1/16 x 1-1/16 |
| C26-2121 | 1-5/16 x 1-5/16 |
| C26-2626 | 1-5/8 x 1-5/8 |
| * C26-3030 | 1-7/8 x 1-7/8 |

Straight Union M/F UNO x BSPP



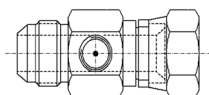
| P/Number | Thread |
|-------------|---------------|
| CB26-0704 | 7/16 x 1/4 |
| CB26-0904 | 9/16 x 1/4 |
| CB26-1206 | 3/4 x 3/8 |
| CB26-1208 | 3/4 x 1/2 |
| CB26-1406 | 7/8 x 3/8 |
| CB26-1408 | 7/8 x 1/2 |
| * CB26-1412 | 7/8 x 3/4 |
| CB26-1712 | 1-1/16 x 3/4 |
| CB26-2116 | 1-5/16 x 1 |
| * CB26-2620 | 1-5/8 x 1-1/4 |

Straight Union M/F UNO x NPSM



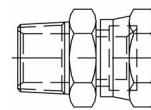
| P/Number | Thread |
|-------------|---------------|
| * CN26-1206 | 3/4 x 3/8 |
| CN26-1208 | 3/4 x 1/2 |
| * CN26-1408 | 7/8 x 1/2 |
| CN26-1412 | 7/8 x 3/4 |
| CN26-1712 | 1-1/16 x 3/4 |
| * CN26-2116 | 1-5/16 x 1 |
| CN26-2620 | 1-5/8 x 1-1/4 |

Straight Union M/F JIC x JIC with 7/16" UNO Gauge Point



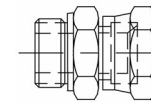
| P/Number | Thread |
|-------------|------------------------|
| C27G-070707 | 7/16 x 7/16 x 7/16 |
| C27G-090907 | 9/16 x 9/16 x 7/16 |
| C27G-121207 | 3/4 x 3/4 x 7/16 |
| C27G-141407 | 7/8 x 7/8 x 7/16 |
| C27G-171707 | 1-1/16 x 1-1/16 x 7/16 |
| C27G-212107 | 1-5/16 x 1-5/16 x 7/16 |
| C27G-262607 | 1-5/8 x 1-5/8 x 7/16 |

Straight Union M/F BSPT x JIC



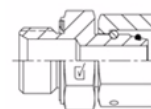
| P/Number | Thread |
|-----------|---------------|
| CB27-0207 | 1/8 x 7/16 |
| CB27-0407 | 1/4 x 7/16 |
| CB27-0409 | 1/4 x 9/16 |
| CB27-0609 | 3/8 x 9/16 |
| CB27-0612 | 3/8 x 3/4 |
| CB27-0614 | 3/8 x 7/8 |
| CB27-0812 | 1/2 x 3/4 |
| CB27-0814 | 1/2 x 7/8 |
| CB27-0817 | 1/2 x 1-1/16 |
| CB27-1217 | 3/4 x 1-1/16 |
| CB27-1621 | 1 x 1-5/16 |
| CB27-2026 | 1-1/4 x 1-5/8 |

Straight Union M/F BSPP x JIC



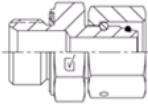
| P/Number | Thread |
|-----------|----------------|
| CP27-0407 | 1/4 x 7/16 |
| CP27-0409 | 1/4 x 9/16 |
| CP27-0609 | 3/8 x 9/16 |
| CP27-0612 | 3/8 x 3/4 |
| CP27-0614 | 3/8 x 7/8 |
| CP27-0812 | 1/2 x 3/4 |
| CP27-0814 | 1/2 x 7/8 |
| CP27-0817 | 1/2 x 1-1/16 |
| CP27-1214 | 3/4 x 7/8 |
| CP27-1217 | 3/4 x 1-1/16 |
| CP27-1617 | 1 x 1-1/16 |
| CP27-1621 | 1 x 1-5/16 |
| CP27-1626 | 1 x 1-5/8 |
| CP27-2021 | 1-1/4 x 1-5/16 |
| CP27-2026 | 1-1/4 x 1-5/8 |
| CP27-2430 | 1-1/2 x 1-7/8 |

Straight Union M/F BSPP Swivel Encapsulated Seal x Metric Light



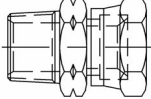
| P/Number | Tube OD | Thread |
|-------------|---------|--------------|
| CRM27L-0414 | 8L | 1/4 x 14x1.5 |
| CRM27L-0416 | 10L | 1/4 x 16x1.5 |
| CRM27L-0618 | 12L | 3/8 x 18x1.5 |
| CRM27L-0822 | 15L | 1/2 x 22x1.5 |
| CRM27L-0826 | 18L | 1/2 x 26x1.5 |
| CRM27L-1230 | 22L | 3/4 x 30x2 |
| CRM27L-1636 | 28L | 1 x 36x2 |

Straight Union M/F BSPP Swivel Encapsulated Seal x Metric Heavy



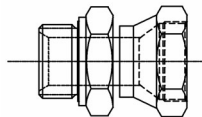
| P/Number..... | Tube OD..... | Thread |
|------------------|--------------|--------------|
| CRM27S-0414..... | 6S..... | 1/4 x 14x1.5 |
| CRM27S-0416..... | 8S..... | 1/4 x 16x1.5 |
| CRM27S-0618..... | 10S..... | 3/8 x 18x1.5 |
| CRM27S-0620..... | 12S..... | 3/8 x 20x1.5 |
| CRM27S-0822..... | 14S..... | 1/2 x 22x1.5 |
| CRM27S-0824..... | 16S..... | 1/2 x 24x1.5 |
| CRM27S-1230..... | 20S..... | 3/4 x 30x2 |
| CRM27S-1636..... | 25S..... | 1 x 36x2 |

Straight Union M/F NPTF x JIC



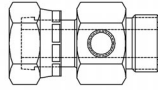
| P/Number..... | Thread |
|----------------|--------------|
| CN27-0407..... | 1/4 x 7/16 |
| CN27-0409..... | 1/4 x 9/16 |
| CN27-0609..... | 3/8 x 9/16 |
| CN27-0612..... | 3/8 x 3/4 |
| CN27-0812..... | 1/2 x 3/4 |
| CN27-0814..... | 1/2 x 7/8 |
| CN27-1217..... | 3/4 x 1-1/16 |
| CN27-1621..... | 1 x 1-5/16 |

Straight Union M/F BSPP x JIC Encapsulated Seal



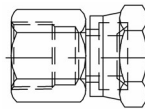
| P/Number..... | Thread |
|------------------|----------------|
| CR27-0407..... | 1/4 x 7/16 |
| CR27-0409..... | 1/4 x 9/16 |
| CR27-0609..... | 3/8 x 9/16 |
| CR27-0612..... | 3/8 x 3/4 |
| CR27-0614..... | 3/8 x 7/8 |
| CR27-0812..... | 1/2 x 3/4 |
| CR27-0814..... | 1/2 x 7/8 |
| CR27-0817..... | 1/2 x 1-1/16 |
| * CR27-1214..... | 3/4 x 7/8 |
| CR27-1217..... | 3/4 x 1-1/16 |
| CR27-1617..... | 1 x 1-1/16 |
| CR27-1621..... | 1 x 1-5/16 |
| CR27-2021..... | 1-1/4 x 1-5/16 |
| CR27-2026..... | 1-1/4 x 1-5/8 |

Straight Union M/F ORFS x ORFS with 7/16" UNO Gauge Point



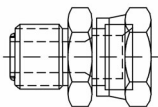
| P/Number..... | Thread |
|------------------|--------------------------|
| F27G-090907..... | 9/16 x 9/16 x 7/16 |
| F27G-111107..... | 11/16 x 11/16 x 7/16 |
| F27G-131307..... | 13/16 x 13/16 x 7/16 |
| F27G-161607..... | 1 x 1 x 7/16 |
| F27G-191907..... | 1-3/16 x 1-3/16 x 7/16 |
| F27G-232307..... | 1-7/16 x 1-7/16 x 7/16 |
| F27G-272707..... | 1-11/16 x 1-11/16 x 7/16 |

Gauge Adaptor Union F/F BSPP x JIC Gauge



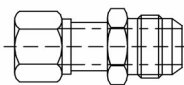
| P/Number..... | Thread |
|-----------------|------------|
| CP28-0409G..... | 1/4 x 9/16 |

Straight Union M/F ORFS x JIC



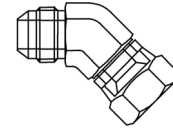
| P/Number..... | Thread |
|-----------------|-----------------|
| F28-1109..... | 11/16 x 9/16 |
| F28-1312..... | 13/16 x 3/4 |
| F28-1614..... | 1 x 7/8 |
| * F28-1917..... | 1-3/16 x 1-1/16 |
| F28-2321..... | 1-7/16 x 1-5/16 |

Straight Union F/M ORFS x JIC



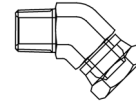
| P/Number..... | Thread |
|-----------------|-----------------|
| F29-0907..... | 9/16 x 7/16 |
| F29-1109..... | 11/16 x 9/16 |
| F29-1312..... | 13/16 x 3/4 |
| F29-1314..... | 13/16 x 7/8 |
| F29-1614..... | 1 x 7/8 |
| F29-1917..... | 1-3/16 x 1-1/16 |
| F29-2321..... | 1-7/16 x 1-5/16 |
| * F29-2726..... | 1-11/16 x 1-5/8 |

45 deg Union M/F JIC x JIC



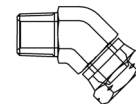
| P/Number..... | Thread |
|----------------|-----------------|
| C30-0707F..... | 7/16 x 7/16 |
| C30-0709F..... | 7/16 x 9/16 |
| C30-0808F..... | 1/2 x 1/2 |
| C30-0909F..... | 9/16 x 9/16 |
| C30-1212F..... | 3/4 x 3/4 |
| C30-1412F..... | 7/8 x 3/4 |
| C30-1414F..... | 7/8 x 7/8 |
| C30-1717F..... | 1-1/16 x 1-1/16 |
| C30-2121F..... | 1-5/16 x 1-5/16 |
| C30-2626F..... | 1-5/8 x 1-5/8 |
| C30-3030..... | 1-7/8 x 1-7/8 |
| C30-4040..... | 2-1/2 x 2-1/2 |

45 deg Union M/F BSPT x BSPP



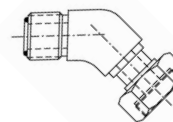
| P/Number..... | Thread |
|-----------------|-----------|
| CB30-0202F..... | 1/8 x 1/8 |
| CB30-0404F..... | 1/4 x 1/4 |
| CB30-0606F..... | 3/8 x 3/8 |
| CB30-0808F..... | 1/2 x 1/2 |
| CB30-1212F..... | 3/4 x 3/4 |
| CB30-1616F..... | 1 x 1 |

45 deg Union M/F NPTF x NPSM



| P/Number..... | Thread |
|------------------|-----------|
| CN30-0202..... | 1/8 x 1/8 |
| * CN30-0404..... | 1/4 x 1/4 |
| * CN30-0606..... | 3/8 x 3/8 |
| * CN30-0808..... | 1/2 x 1/2 |
| * CN30-1212..... | 3/4 x 3/4 |
| * CN30-1616..... | 1 x 1 |

45 deg Union M/F ORFS x ORFS



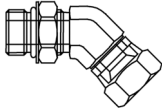
| P/Number..... | Thread |
|-----------------|-----------------|
| * F30-0909..... | 9/16 x 9/16 |
| * F30-1111..... | 11/16 x 11/16 |
| F30-1313..... | 13/16 x 13/16 |
| * F30-1616..... | 1 x 1 |
| * F30-1919..... | 1-3/16 x 1-3/16 |
| * F30-2323..... | 1-7/16 x 1-7/16 |

Section 4 Adaptors



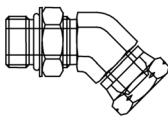
*Manufactured To Order (minimum qtys may apply)

45 deg Union M/F UNO x JIC



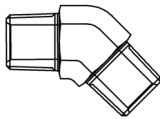
| P/Number..... | Thread |
|------------------|-----------------|
| C31-0909 | 9/16 x 9/16 |
| * C31-1212 | 3/4 x 3/4 |
| * C31-1414 | 7/8 x 7/8 |
| * C31-1717 | 1-1/16 x 1-1/16 |
| C31-2121 | 1-5/16 x 1-5/16 |

45 deg Union M/F UNO x NPSM



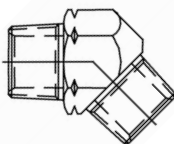
| P/Number..... | Thread |
|------------------|-----------|
| CN31-1208..... | 3/4 x 1/2 |
| * CN31-1408..... | 7/8 x 1/2 |

45 deg Elbow M/M BSPT x BSPT



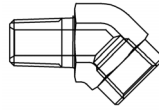
| P/Number..... | Thread |
|-------------------|---------------|
| CB36-0202F | 1/8 x 1/8 |
| CB36-0404F | 1/4 x 1/4 |
| CB36-0606F | 3/8 x 3/8 |
| CB36-0808F | 1/2 x 1/2 |
| CB36-1208F | 3/4 x 1/2 |
| CB36-1212F | 3/4 x 3/4 |
| CB36-1612F | 1 x 3/4 |
| CB36-1616F | 1 x 1 |
| * CB36-2424 | 1-1/2 x 1-1/2 |

Elbow 45 deg M/M NPTF x NPTF



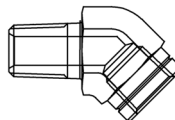
| P/Number..... | Thread |
|------------------|-----------|
| * CN36-0202..... | 1/8 x 1/8 |
| CN36-0404F..... | 1/4 x 1/4 |
| * CN36-0606..... | 3/8 x 3/8 |
| * CN36-0808..... | 1/2 x 1/2 |
| * CN36-1212..... | 3/4 x 3/4 |
| * CN36-1616..... | 1 x 1 |

45 deg Elbow M/F BSPT x BSPT



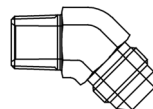
| P/Number..... | Thread |
|------------------|-----------|
| CB37-0202F | 1/8 x 1/8 |
| CB37-0404F | 1/4 x 1/4 |
| CB37-0606F | 3/8 x 3/8 |
| CB37-0808F | 1/2 x 1/2 |
| CB37-1212F | 3/4 x 3/4 |
| CB37-1616F | 1 x 1 |

45 deg Elbow M/F NPTF x NPTF



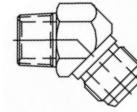
| P/Number..... | Thread |
|------------------|---------------|
| CN37-0202F | 1/8 x 1/8 |
| CN37-0404F | 1/4 x 1/4 |
| CN37-0606F | 3/8 x 3/8 |
| CN37-0808F | 1/2 x 1/2 |
| CN37-1212F | 3/4 x 3/4 |
| CN37-1616F | 1 x 1 |
| CN37-2020..... | 1-1/4 x 1-1/4 |

Elbow 45 deg M/M BSPT x JIC



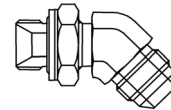
| P/Number..... | Thread |
|------------------|---------------|
| CB38-0207F | 1/8 x 7/16 |
| CB38-0407F | 1/4 x 7/16 |
| CB38-0408F | 1/4 x 1/2 |
| CB38-0409F | 1/4 x 9/16 |
| CB38-0412F | 1/4 x 3/4 |
| CB38-0609F | 3/8 x 9/16 |
| CB38-0612F | 3/8 x 3/4 |
| CB38-0614 | 3/8 x 7/8 |
| CB38-0809F | 1/2 x 9/16 |
| CB38-0812F | 1/2 x 3/4 |
| CB38-0814F | 1/2 x 7/8 |
| CB38-0817F | 1/2 x 1-1/16 |
| CB38-1214F | 3/4 x 7/8 |
| CB38-1217F | 3/4 x 1-1/16 |
| CB38-1221F | 3/4 x 1-5/16 |
| CB38-1621F | 1 x 1-5/16 |
| CB38-1626F | 1 x 1-5/8 |
| CB38-2026F | 1-1/4 x 1-5/8 |
| CB38-2430 | 1-1/2 x 1-7/8 |
| CB38-3240 | 2 x 2-1/2 |

Elbow 45 deg M/M BSPT x JIS



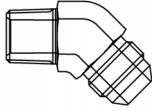
| P/Number..... | Thread |
|--------------------|-----------|
| * CBJ38-0404 | 1/4 x 1/4 |
| CBJ38-0606 | 3/8 x 3/8 |
| CBJ38-0808 | 1/2 x 1/2 |
| CBJ38-1212 | 3/4 x 3/4 |
| CBJ38-1616 | 1 x 1 |

45 deg Elbow M/M BSPP x JIC



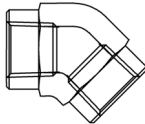
| P/Number..... | Thread |
|-------------------|---------------|
| CP38-0407F | 1/4 x 7/16 |
| CP38-0409F | 1/4 x 9/16 |
| CP38-0412F | 1/4 x 3/4 |
| CP38-0609F | 3/8 x 9/16 |
| CP38-0612F | 3/8 x 3/4 |
| CP38-0809F | 1/2 x 9/16 |
| CP38-0812F | 1/2 x 3/4 |
| CP38-0814F | 1/2 x 7/8 |
| CP38-0817F | 1/2 x 1-1/16 |
| CP38-1212F | 3/4 x 3/4 |
| CP38-1217F | 3/4 x 1-1/16 |
| CP38-1621 | 1 x 1-5/16 |
| CP38-2026F | 1-1/4 x 1-5/8 |
| * CP38-2430 | 1-1/2 x 1-7/8 |

45 deg Elbow M/M NPTF x JIC



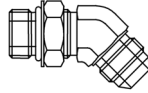
| P/Number..... | Thread |
|------------------|----------------|
| CN38-0207F..... | 1/8 x 7/16 |
| CN38-0407F..... | 1/4 x 7/16 |
| CN38-0409F..... | 1/4 x 9/16 |
| CN38-0412F..... | 1/4 x 3/4 |
| CN38-0609F..... | 3/8 x 9/16 |
| CN38-0612F..... | 3/8 x 3/4 |
| * CN38-0614..... | 3/8 x 7/8 |
| CN38-0809F..... | 1/2 x 9/16 |
| CN38-0812F..... | 1/2 x 3/4 |
| CN38-0814F..... | 1/2 x 7/8 |
| * CN38-1212..... | 3/4 x 3/4 |
| CN38-1214F..... | 3/4 x 7/8 |
| CN38-1217F..... | 3/4 x 1-1/16 |
| * CN38-1221..... | 3/4 x 1-5/16 |
| CN38-1617F..... | 1 x 1-1/16 |
| CN38-1621F..... | 1 x 1-5/16 |
| CN38-1626..... | 1 x 1-5/8 |
| CN38-2021F..... | 1-1/4 x 1-5/16 |
| CN38-2026F..... | 1-1/4 x 1-5/8 |
| CN38-2030..... | 1-1/4 x 1-7/8 |
| CN38-2430..... | 1-1/2 x 1-7/8 |
| CN38-3230..... | 2 x 1-7/8 |
| CN38-3240..... | 2 x 2-1/2 |

45 deg Elbow F/F BSPT x BSPT



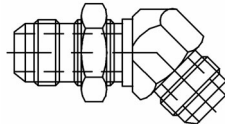
| P/Number..... | Thread |
|-----------------|-----------|
| CB39-0404F..... | 1/4 x 1/4 |
| CB39-0606F..... | 3/8 x 3/8 |
| CB39-0808F..... | 1/2 x 1/2 |
| CB39-1212F..... | 3/4 x 3/4 |
| CB39-1616F..... | 1 x 1 |

45 deg Elbow M/M UNO x JIC



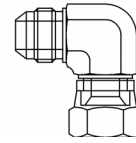
| P/Number..... | Thread |
|-----------------|-----------------|
| C40-0707F..... | 7/16 x 7/16 |
| C40-0907F..... | 9/16 x 7/16 |
| C40-0909F..... | 9/16 x 9/16 |
| C40-0912F..... | 9/16 x 3/4 |
| C40-1209F..... | 3/4 x 9/16 |
| C40-1212F..... | 3/4 x 3/4 |
| C40-1214F..... | 3/4 x 7/8 |
| C40-1412F..... | 7/8 x 3/4 |
| C40-1414F..... | 7/8 x 7/8 |
| C40-1417F..... | 7/8 x 1-1/16 |
| * C40-1712..... | 1-1/16 x 3/4 |
| C40-1714F..... | 1-1/16 x 7/8 |
| C40-1717F..... | 1-1/16 x 1-1/16 |
| C40-1721F..... | 1-1/16 x 1-5/16 |
| C40-2117F..... | 1-5/16 x 1-1/16 |
| C40-2121F..... | 1-5/16 x 1-5/16 |
| C40-2126F..... | 1-5/16 x 1-5/8 |
| C40-2621F..... | 1-5/8 x 1-5/16 |
| C40-2626F..... | 1-5/8 x 1-5/8 |
| C40-3030..... | 1-7/8 x 1-7/8 |
| * C40-4040..... | 2-1/2 x 2-1/2 |

Bulkhead Elbow 45 deg M/M JIC x JIC



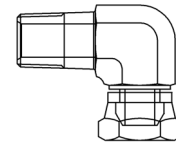
| P/Number..... | Thread |
|-----------------|-----------------|
| C42-0707..... | 7/16 x 7/16 |
| C42-0909..... | 9/16 x 9/16 |
| C42-1212..... | 3/4 x 3/4 |
| C42-1414..... | 7/8 x 7/8 |
| C42-1717..... | 1-1/16 x 1-1/16 |
| C42-2121..... | 1-5/16 x 1-5/16 |
| * C42-2626..... | 1-5/8 x 1-5/8 |

90 deg Union M/F JIC x JIC



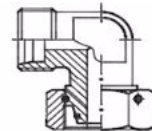
| P/Number..... | Thread |
|----------------|-----------------|
| C46-0707F..... | 7/16 x 7/16 |
| C46-0808F..... | 1/2 x 1/2 |
| C46-0909F..... | 9/16 x 9/16 |
| C46-1212F..... | 3/4 x 3/4 |
| C46-1214F..... | 3/4 x 7/8 |
| C46-1412F..... | 7/8 x 3/4 |
| C46-1414F..... | 7/8 x 7/8 |
| C46-1417F..... | 7/8 x 1-1/16 |
| C46-1714F..... | 1-1/16 x 7/8 |
| C46-1717F..... | 1-1/16 x 1-1/16 |
| C46-2121F..... | 1-5/16 x 1-5/16 |
| C46-2626F..... | 1-5/8 x 1-5/8 |
| C46-3030F..... | 1-7/8 x 1-7/8 |
| C46-4040..... | 2-1/2 x 2-1/2 |

90 deg Union M/F BSPT x BSPP



| P/Number..... | Thread |
|-----------------|---------------|
| CB46-0202F..... | 1/8 x 1/8 |
| CB46-0404F..... | 1/4 x 1/4 |
| CB46-0406F..... | 1/4 x 3/8 |
| CB46-0604F..... | 3/8 x 1/4 |
| CB46-0606F..... | 3/8 x 3/8 |
| CB46-0608F..... | 3/8 x 1/2 |
| CB46-0806F..... | 1/2 x 3/8 |
| CB46-0808F..... | 1/2 x 1/2 |
| CB46-1208F..... | 3/4 x 1/2 |
| CB46-1212F..... | 3/4 x 3/4 |
| CB46-1616F..... | 1 x 1 |
| CB46-2020..... | 1-1/4 x 1-1/4 |
| CB46-2424..... | 1-1/2 x 1-1/2 |
| CB46-3232..... | 2 x 2 |

90 deg Union M/F Metric Light



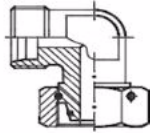
| P/Number..... | Tube OD | Thread |
|-----------------|----------|--------|
| CM46L-1212..... | 6L..... | 12x1.5 |
| CM46L-1414..... | 8L..... | 14x1.5 |
| CM46L-1616..... | 10L..... | 16x1.5 |
| CM46L-1818..... | 12L..... | 18x1.5 |
| CM46L-2222..... | 15L..... | 22x1.5 |
| CM46L-2626..... | 18L..... | 26X1.5 |
| CM46L-3030..... | 22L..... | 30x2 |
| CM46L-3636..... | 28L..... | 36x2 |

Section 4 Adaptors



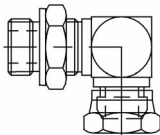
*Manufactured To Order (minimum qtys may apply)

90 deg Union M/F Metric Heavy



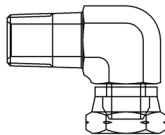
| P/Number..... | Tube OD..... | Thread..... |
|-----------------|--------------|-------------|
| CM46S-1414..... | 6S..... | 14x1.5 |
| CM46S-1616..... | 8S..... | 16x1.5 |
| CM46S-1818..... | 10S..... | 18x1.5 |
| CM46S-2020..... | 12S..... | 20x1.5 |
| CM46S-2222..... | 14S..... | 22x1.5 |
| CM46S-2424..... | 16S..... | 24x1.5 |
| CM46S-3030..... | 20S..... | 30x2 |
| CM46S-3636..... | 25S..... | 36x2 |

90 deg Union M/F BSPP x BSPP



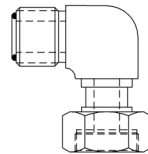
| P/Number..... | Thread..... |
|-----------------|-------------|
| CP46-0404F..... | 1/4 x 1/4 |
| CP46-0606F..... | 3/8 x 3/8 |
| CP46-0808F..... | 1/2 x 1/2 |
| CP46-1212F..... | 3/4 x 3/4 |
| CP46-1216F..... | 3/4 x 1 |
| CP46-1616F..... | 1 x 1 |

90 deg Union M/F NPTF x NPSM



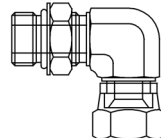
| P/Number..... | Thread..... |
|-----------------|-------------|
| CN46-0202F..... | 1/8 x 1/8 |
| CN46-0404F..... | 1/4 x 1/4 |
| CN46-0606F..... | 3/8 x 3/8 |
| CN46-0808F..... | 1/2 x 1/2 |
| CN46-1212F..... | 3/4 x 3/4 |
| CN46-1616F..... | 1 x 1 |

90 deg Union M/F ORFS x ORFS



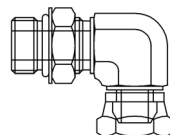
| P/Number..... | Thread..... |
|----------------|-----------------|
| F46-0909F..... | 9/16 x 9/16 |
| F46-1111F..... | 11/16 x 11/16 |
| F46-1313F..... | 13/16 x 13/16 |
| F46-1616F..... | 1 x 1 |
| F46-1919F..... | 1-3/16 x 1-3/16 |
| F46-2323F..... | 1-7/16 x 1-7/16 |

90 deg Union M/F UNO x JIC



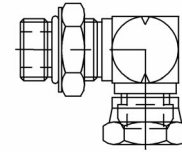
| P/Number..... | Thread..... |
|----------------|-----------------|
| C47-0707F..... | 7/16 x 7/16 |
| C47-0909F..... | 9/16 x 9/16 |
| C47-1209F..... | 3/4 x 9/16 |
| C47-1212F..... | 3/4 x 3/4 |
| C47-1412F..... | 7/8 x 3/4 |
| C47-1414F..... | 7/8 x 7/8 |
| C47-1717F..... | 1-1/16 x 1-1/16 |
| C47-2121F..... | 1-5/16 x 1-5/16 |

90 deg Union M/F UNO x BSPP



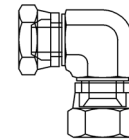
| P/Number..... | Thread..... |
|-----------------|--------------|
| CB47-0904F..... | 9/16 x 1/4 |
| CB47-0906F..... | 9/16 x 3/8 |
| CB47-1206F..... | 3/4 x 3/8 |
| CB47-1208F..... | 3/4 x 1/2 |
| CB47-1408F..... | 7/8 x 1/2 |
| CB47-1712F..... | 1-1/16 x 3/4 |
| CB47-2116F..... | 1-5/16 x 1 |

90 deg Union M/F UNO x NPSM



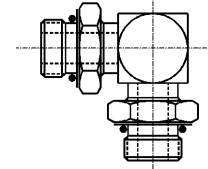
| P/Number..... | Thread..... |
|------------------|---------------|
| * CN47-0904..... | 9/16 x 1/4 |
| * CN47-1206..... | 3/4 x 3/8 |
| * CN47-1208..... | 3/4 x 1/2 |
| * CN47-1408..... | 7/8 x 1/2 |
| * CN47-1712..... | 1-1/16 x 3/4 |
| * CN47-2116..... | 1-5/16 x 1 |
| * CN47-2620..... | 1-5/8 x 1-1/4 |

90 deg Elbow F/F BSPT x JIC



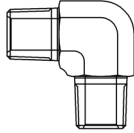
| P/Number..... | Thread..... |
|-----------------|--------------|
| CB48-0209F..... | 1/8 x 9/16 |
| CB48-1217F..... | 3/4 x 1-1/16 |

90 deg Elbow M/M UNO x UNO



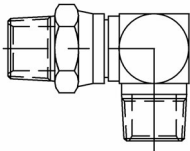
| P/Number..... | Thread..... |
|-------------------|-----------------|
| ZC52-0909F..... | 9/16 x 9/16 |
| * ZC52-1209F..... | 3/4 x 9/16 |
| ZC52-1212..... | 3/4 x 3/4 |
| * ZC52-1212Z..... | 3/4 x 3/4 |
| ZC52-1412F..... | 7/8 x 3/4 |
| ZC52-1717..... | 1-1/16 x 1-1/16 |

90 deg Elbow M/M BSPT x BSPT



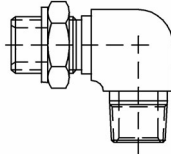
| P/Number | Thread |
|------------|---------------|
| CB53-0202F | 1/8 x 1/8 |
| CB53-0402F | 1/4 x 1/8 |
| CB53-0404F | 1/4 x 1/4 |
| CB53-0604F | 3/8 x 1/4 |
| CB53-0606F | 3/8 x 3/8 |
| CB53-0804F | 1/2 x 1/4 |
| CB53-0806F | 1/2 x 3/8 |
| CB53-0808F | 1/2 x 1/2 |
| CB53-1208F | 3/4 x 1/2 |
| CB53-1212F | 3/4 x 3/4 |
| CB53-1612F | 1 x 3/4 |
| CB53-1616F | 1 x 1 |
| CB53-2012F | 1-1/4 x 3/4 |
| CB53-2016F | 1-1/4 x 1 |
| CB53-2020F | 1-1/4 x 1-1/4 |
| CB53-2424F | 1-1/2 x 1-1/2 |
| CB53-3232 | 2 x 2 |

90 deg Elbow M/M BSPT Swivel x BSPT



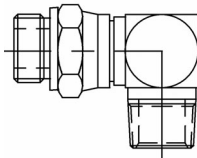
| P/Number | Thread |
|--------------|-----------|
| CBS53-0606 | 3/8 x 3/8 |
| CBS53-0808 | 1/2 x 1/2 |
| CBS53-1208 | 3/4 x 1/2 |
| * CBS53-1212 | 3/4 x 3/4 |

90 deg Elbow M/M BSPP x BSPT



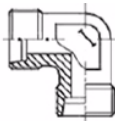
| P/Number | Thread |
|-------------|---------------|
| CPB53-0404F | 1/4 x 1/4 |
| CPB53-0406F | 1/4 x 3/8 |
| CPB53-0604F | 3/8 x 1/4 |
| CPB53-0606F | 3/8 x 3/8 |
| CPB53-0608F | 3/8 x 1/2 |
| CPB53-0806F | 1/2 x 3/8 |
| CPB53-0808F | 1/2 x 1/2 |
| CPB53-0812F | 1 2/ x 3/4 |
| CPB53-1212F | 3/4 x 3/4 |
| CPB53-1612F | 1 x 3/4 |
| CPB53-1616F | 1 x 1 |
| CPB53-2020F | 1-1/4 x 1-1/4 |
| CPB53-2424F | 1-1/2 x 1-1/2 |

90 deg Elbow M/M BSPP Swivel x BSPT



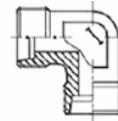
| P/Number | Thread |
|-------------|-----------|
| CPBS53-0606 | 3/8 x 3/8 |
| CPBS53-0808 | 1/2 x 1/2 |
| CPBS53-1208 | 3/4 x 1/2 |

90 deg Elbow M/M Metric Light



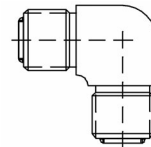
| P/Number | Tube OD | Thread |
|------------|---------|--------|
| CM53L-1212 | 6L | 12x1.5 |
| CM53L-1414 | 8L | 14x1.5 |
| CM53L-1616 | 10L | 16x1.5 |
| CM53L-1818 | 12L | 18x1.5 |
| CM53L-2222 | 15L | 22x1.5 |
| CM53L-2626 | 18L | 26x1.5 |
| CM53L-3030 | 22L | 30x2 |
| CM53L-3636 | 28L | 36x2 |

90 deg Elbow M/M Metric Heavy



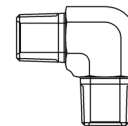
| P/Number | Tube OD | Thread |
|------------|---------|--------|
| CM53S-1414 | 6S | 14x1.5 |
| CM53S-1616 | 8S | 16x1.5 |
| CM53S-1818 | 10S | 18x1.5 |
| CM53S-2020 | 12S | 20x1.5 |
| CM53S-2222 | 14S | 22x1.5 |
| CM53S-2424 | 16S | 24x1.5 |
| CM53S-3030 | 20S | 30x2 |
| CM53S-3636 | 25S | 36x2 |

90 deg Elbow M/M ORFS x ORFS



| P/Number | Thread |
|-------------|-----------------|
| F53-0909 | 9/16 x 9/16 |
| * F53-1111F | 11/16 x 11/16 |
| F53-1313 | 13/16 x 13/16 |
| F53-1616 | 1 x 1 |
| * F53-1919 | 1-3/16 x 1-3/16 |
| F53-2323 | 1-7/16 x 1-7/16 |

90 deg Elbow M/M NPTF x NPTF



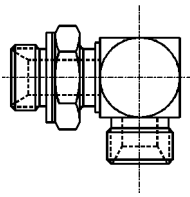
| P/Number | Thread |
|-------------|---------------|
| CN53-0202F | 1/8 x 1/8 |
| CN53-0404F | 1/4 x 1/4 |
| CN53-0604F | 3/8 x 1/4 |
| CN53-0606F | 3/8 x 3/8 |
| * CN53-0804 | 1/2 x 1/4 |
| CN53-0806F | 1/2 x 3/8 |
| CN53-0808F | 1/2 x 1/2 |
| CN53-1208F | 3/4 x 1/2 |
| CN53-1212F | 3/4 x 3/4 |
| CN53-1612F | 1 x 3/4 |
| CN53-1616F | 1 x 1 |
| CN53-2020F | 1-1/4 x 1-1/4 |
| CN53-2424F | 1-1/2 x 1-1/2 |
| CN53-3232 | 2 x 2 |

Section 4 Adaptors



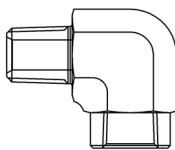
*Manufactured To Order (minimum qty's may apply)

90 deg Elbow M/M BSPP x BSPP



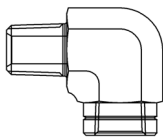
| P/Number..... | Thread |
|-------------------|-----------|
| * CP53-0404 | 1/4 x 1/4 |
| CP53-0606 | 3/8 x 3/8 |
| CP53-0808 | 1/2 x 1/2 |

90 deg Elbow M/F BSPT x BSPT



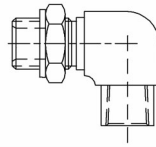
| P/Number..... | Thread |
|------------------|---------------|
| CB54-0202F | 1/8 x 1/8 |
| CB54-0204F | 1/8 x 1/4 |
| CB54-0404F | 1/4 x 1/4 |
| CB54-0606F | 3/8 x 3/8 |
| CB54-0608F | 3/8 x 1/2 |
| CB54-0806F | 1/2 x 3/8 |
| CB54-0808F | 1/2 x 1/2 |
| CB54-0812F | 1/2 x 3/4 |
| CB54-1208F | 3/4 x 1/2 |
| CB54-1212F | 3/4 x 3/4 |
| CB54-1616F | 1 x 1 |
| CB54-2020F | 1-1/4 x 1-1/4 |
| CB54-2424 | 1-1/2 x 1-1/2 |
| CB54-3232 | 2 x 2 |

90 deg Elbow M/F NPTF x NPTF



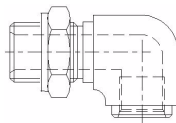
| P/Number..... | Thread |
|--------------------|---------------|
| CN54-0202F | 1/8 x 1/8 |
| CN54-0204F | 1/8 x 1/4 |
| CN54-0404F | 1/4 x 1/4 |
| CN54-0406F | 1/4 x 3/8 |
| CN54-0606F | 3/8 x 3/8 |
| CN54-0806F | 1/2 x 3/8 |
| CN54-0808F | 1/2 x 1/2 |
| CN54-1212F | 3/4 x 3/4 |
| * CN54-1216F | 3/4 x 1 |
| CN54-1616F | 1 x 1 |
| CN54-2020F | 1-1/4 x 1-1/4 |
| CN54-2424 | 1-1/2 x 1-1/2 |
| CN54-3232 | 2 x 2 |

90 deg Elbow M/F BSPP x BSPT



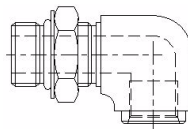
| P/Number..... | Thread |
|---------------------|-----------|
| * CPB54-0808F | 1/2 x 1/2 |
| CPB54-1212F | 3/4 x 3/4 |

90 deg Elbow M/F BSPP x UNO



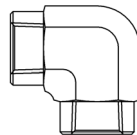
| P/Number..... | Thread |
|-------------------|------------|
| CPU54-0609F | 3/8 x 9/16 |

90 deg Elbow M/F UNO x UNO



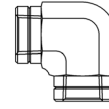
| P/Number..... | Thread |
|------------------|-------------|
| CU54-0909F | 9/16 x 9/16 |
| CU54-1209F | 3/4 x 9/16 |

90 deg Elbow F/F BSPT x BSPT



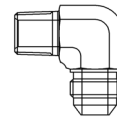
| P/Number..... | Thread |
|------------------|---------------|
| CB55-0202F | 1/8 x 1/8 |
| CB55-0404F | 1/4 x 1/4 |
| CB55-0606F | 3/8 x 3/8 |
| CB55-0806F | 1/2 x 3/8 |
| CB55-0808F | 1/2 x 1/2 |
| CB55-1208F | 3/4 x 1/2 |
| CB55-1212F | 3/4 x 3/4 |
| CB55-1616F | 1 x 1 |
| CB55-2020F | 1-1/4 x 1-1/4 |
| CB55-2424 | 1-1/2 x 1-1/2 |

90 deg Elbow F/F NPTF x NPTF



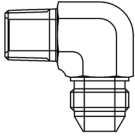
| P/Number..... | Thread |
|-------------------|---------------|
| CN55-0202F | 1/8 x 1/8 |
| CN55-0404F | 1/4 x 1/4 |
| CN55-0606F | 3/8 x 3/8 |
| * CN55-0806 | 1/2 x 3/8 |
| CN55-0808F | 1/2 x 1/2 |
| * CN55-1208 | 3/4 x 1/2 |
| CN55-1212F | 3/4 x 3/4 |
| CN55-1616F | 1 x 1 |
| CN55-2020F | 1-1/4 x 1-1/4 |
| * CN55-2424 | 1-1/2 x 1-1/2 |

90 deg Elbow M/M BSPT x JIC



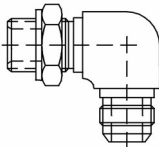
| P/Number..... | Thread |
|--------------------|----------------|
| * CB56-0206F | 1/8 x 3/8 |
| CB56-0207F | 1/8 x 7/16 |
| CB56-0208F | 1/8 x 1/2 |
| CB56-0209F | 1/8 x 9/16 |
| CB56-0407F | 1/4 x 7/16 |
| CB56-0408F | 1/4 x 1/2 |
| CB56-0409F | 1/4 x 9/16 |
| CB56-0412F | 1/4 x 3/4 |
| CB56-0607F | 3/8 x 7/16 |
| CB56-0609F | 3/8 x 9/16 |
| CB56-0612F | 3/8 x 3/4 |
| CB56-0614F | 3/8 x 7/8 |
| CB56-0807F | 1/2 x 7/16 |
| CB56-0809F | 1/2 x 9/16 |
| CB56-0812F | 1/2 x 3/4 |
| CB56-0814F | 1/2 x 7/8 |
| CB56-0817F | 1/2 x 1-1/16 |
| CB56-1209F | 3/4 x 9/16 |
| CB56-1212F | 3/4 x 3/4 |
| CB56-1214F | 3/4 x 7/8 |
| CB56-1217F | 3/4 x 1-1/16 |
| CB56-1221F | 3/4 x 1-5/16 |
| CB56-1612F | 1 x 3/4 |
| CB56-1614F | 1 x 7/8 |
| CB56-1617F | 1 x 1-1/16 |
| CB56-1621F | 1 x 1-5/16 |
| CB56-1626F | 1 x 1-5/8 |
| CB56-2017F | 1-1/4 x 1-1/16 |
| CB56-2021F | 1-1/4 x 1-5/16 |
| CB56-2026F | 1-1/4 x 1-5/8 |
| CB56-2030F | 1-1/4 x 1-7/8 |
| CB56-2426F | 1-1/2 x 1-5/8 |
| CB56-2430F | 1-1/2 x 1-7/8 |
| * CB56-2440 | 1-1/2 x 2-1/2 |
| * CB56-3230 | 2 x 1-7/8 |
| CB56-3240 | 2 x 2-1/2 |

90 deg Elbow M/M BSPT x JIS



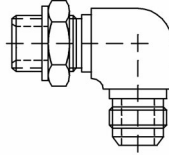
| P/Number..... | Thread |
|-------------------|-----------|
| CBJ56-0404F..... | 1/4 x 1/4 |
| CBJ56-0606F..... | 3/8 x 3/8 |
| CBJ56-0808..... | 1/2 x 1/2 |
| CBJ56-1212..... | 3/4 x 3/4 |
| * CBJ56-1616..... | 1 x 1 |

90 deg Elbow M/M BSPP x JIC



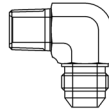
| P/Number..... | Thread |
|-----------------|----------------|
| CP56-0207F..... | 1/8 x 7/16 |
| CP56-0209F..... | 1/8 x 9/16 |
| CP56-0407F..... | 1/4 x 7/16 |
| CP56-0409F..... | 1/4 x 9/16 |
| CP56-0412F..... | 1/4 x 3/4 |
| CP56-0607F..... | 3/8 x 7/16 |
| CP56-0609F..... | 3/8 x 9/16 |
| CP56-0612F..... | 3/8 x 3/4 |
| CP56-0614F..... | 3/8 x 7/8 |
| CP56-0809F..... | 1/2 x 9/16 |
| CP56-0812F..... | 1/2 x 3/4 |
| CP56-0814F..... | 1/2 x 7/8 |
| CP56-0817F..... | 1/2 x 1-1/16 |
| CP56-0821F..... | 1/2 x 1-5/16 |
| CP56-1212F..... | 3/4 x 3/4 |
| CP56-1214F..... | 3/4 x 7/8 |
| CP56-1217F..... | 3/4 x 1-1/16 |
| CP56-1221F..... | 3/4 x 1-5/16 |
| CP56-1617F..... | 1 x 1-1/16 |
| CP56-1621F..... | 1 x 1-5/16 |
| CP56-1626F..... | 1 x 1-5/8 |
| CP56-2017F..... | 1-1/4 x 1-1/16 |
| CP56-2021F..... | 1-1/4 x 1-5/16 |
| CP56-2026F..... | 1-1/4 x 1-5/8 |
| CP56-2030F..... | 1-1/4 x 1-7/8 |
| CP56-2421F..... | 1-1/2 x 1-5/16 |
| CP56-2426F..... | 1-1/2 x 1-5/8 |
| CP56-2430F..... | 1-1/2 x 1-7/8 |
| CP56-3240..... | 2 x 2-1/2 |

90 deg Elbow M/M Metric x JIC



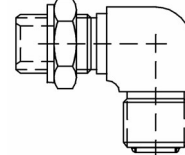
| P/Number..... | Thread |
|-----------------|---------------|
| CM56-1207F..... | 12x1.5 x 7/16 |
| CM56-1409F..... | 14x1.5 x 9/16 |
| CM56-1609F..... | 16x1.5 x 9/16 |
| CM56-1809F..... | 18x1.5 x 9/16 |
| CM56-1812F..... | 18x1.5 x 3/4 |
| CM56-2212F..... | 22x1.5 x 3/4 |

90 deg Elbow M/M NPTF x JIC



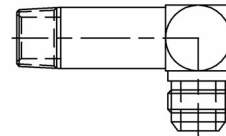
| P/Number..... | Thread |
|------------------|----------------|
| CN56-0207F..... | 1/8 x 7/16 |
| CN56-0208F..... | 1/8 x 1/2 |
| CN56-0209F..... | 1/8 x 9/16 |
| CN56-0407F..... | 1/4 x 7/16 |
| * CN56-0408..... | 1/4 x 1/2 |
| CN56-0409F..... | 1/4 x 9/16 |
| CN56-0412F..... | 1/4 x 3/4 |
| CN56-0607F..... | 3/8 x 7/16 |
| CN56-0609F..... | 3/8 x 9/16 |
| CN56-0612F..... | 3/8 x 3/4 |
| CN56-0614F..... | 3/8 x 7/8 |
| * CN56-0617..... | 3/8 x 1-1/16 |
| CN56-0807F..... | 1/2 x 7/16 |
| CN56-0809F..... | 1/2 x 9/16 |
| CN56-0812F..... | 1/2 x 3/4 |
| CN56-0814F..... | 1/2 x 7/8 |
| CN56-0817F..... | 1/2 x 1-1/16 |
| CN56-1207F..... | 3/4 x 7/16 |
| CN56-1209F..... | 3/4 x 9/16 |
| CN56-1212F..... | 3/4 x 3/4 |
| CN56-1214F..... | 3/4 x 7/8 |
| CN56-1217F..... | 3/4 x 1-1/16 |
| CN56-1221F..... | 3/4 x 1-5/16 |
| CN56-1617F..... | 1 x 1-1/16 |
| CN56-1621F..... | 1 x 1-5/16 |
| CN56-1626F..... | 1 x 1-5/8 |
| CN56-2017F..... | 1-1/4 x 1-1/16 |
| CN56-2021F..... | 1-1/4 x 1-5/16 |
| CN56-2026F..... | 1-1/4 x 1-5/8 |
| CN56-2030F..... | 1-1/4 x 1-7/8 |
| CN56-2426F..... | 1-1/2 x 1-5/8 |
| CN56-2430F..... | 1-1/2 x 1-7/8 |
| CN56-3240..... | 2 x 2-1/2 |

90 deg Elbow M/M BSPP x ORFS



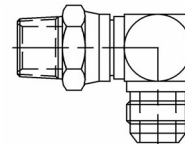
| P/Number..... | Thread |
|-----------------|--------------|
| FP56-0811F..... | 1/2 x 11/16 |
| FP56-0813F..... | 1/2 x 13/16 |
| FP56-0816F..... | 1/2 x 1 |
| FP56-0819F..... | 1/2 x 1-3/16 |
| FP56-1213F..... | 3/4 x 13/16 |
| FP56-1216F..... | 3/4 x 1 |
| FP56-1623F..... | 1 x 1-7/16 |

90 deg Elbow M/M BSPT Extended x JIC



| P/Number..... | Thread |
|------------------|--------------|
| CB57-0207..... | 1/8 x 7/16 |
| CB57-0407..... | 1/4 x 7/16 |
| CB57-0409..... | 1/4 x 9/16 |
| CB57-0609..... | 3/8 x 9/16 |
| CB57-0612..... | 3/8 x 3/4 |
| CB57-0812..... | 1/2 x 3/4 |
| CB57-0814..... | 1/2 x 7/8 |
| * CB57-1217..... | 3/4 x 1-1/16 |
| * CB57-1621..... | 1 x 1-5/16 |

90 deg Elbow M/M BSPT Swivel x JIC



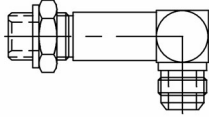
| P/Number..... | Thread |
|-------------------|--------------|
| CBS57-0407..... | 1/4 x 7/16 |
| CBS57-0612..... | 3/8 x 3/4 |
| CBS57-0812..... | 1/2 x 3/4 |
| CBS57-0814..... | 1/2 x 7/8 |
| * CBS57-0817..... | 1/2 x 1-1/16 |
| CBS57-1217..... | 3/4 x 1-1/16 |
| * CBS57-1221..... | 3/4 x 1-5/16 |
| * CBS57-1621..... | 1 x 1-5/16 |

Section 4 Adaptors



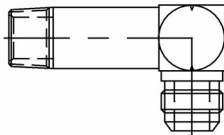
*Manufactured To Order (minimum qtys may apply)

90 deg Elbow M/M BSPP Extended x JIC



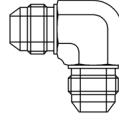
| P/Number..... | Thread |
|------------------|--------------|
| CP57-0612..... | 3/8 x 3/4 |
| CP57-0814..... | 1/2 x 7/8 |
| * CP57-1217..... | 3/4 x 1-1/16 |
| * CP57-1221..... | 3/4 x 1-5/16 |
| * CP57-1621..... | 1 x 1-5/16 |

90 deg Elbow M/M NPTF Extended x JIC



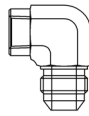
| P/Number..... | Thread |
|------------------|--------------|
| CN57-0207..... | 1/8 x 7/16 |
| * CN57-0209..... | 1/8 x 9/16 |
| CN57-0407..... | 1/4 x 7/16 |
| * CN57-0409..... | 1/4 x 9/16 |
| CN57-0609..... | 3/8 x 9/16 |
| * CN57-0612..... | 3/8 x 3/4 |
| * CN57-0812..... | 1/2 x 3/4 |
| CN57-0814..... | 1/2 x 7/8 |
| * CN57-1212..... | 3/4 x 3/4 |
| * CN57-1217..... | 3/4 x 1-1/16 |
| * CN57-1621..... | 1 x 1-5/16 |

90 deg Elbow M/M JIC x JIC



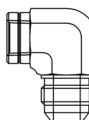
| P/Number..... | Thread |
|-----------------|-----------------|
| * C58-0606..... | 3/8 x 3/8 |
| C58-0707F..... | 7/16 x 7/16 |
| C58-0808F..... | 1/2 x 1/2 |
| * C58-0908..... | 9/16 x 1/2 |
| C58-0909F..... | 9/16 x 9/16 |
| C58-1209F..... | 3/4 x 9/16 |
| C58-1212F..... | 3/4 x 3/4 |
| C58-1412F..... | 7/8 x 3/4 |
| C58-1414F..... | 7/8 x 7/8 |
| C58-1712F..... | 1-1/16 x 3/4 |
| C58-1714F..... | 1-1/16 x 7/8 |
| C58-1717F..... | 1-1/16 x 1-1/16 |
| C58-2117F..... | 1-5/16 x 1-1/16 |
| C58-2121F..... | 1-5/16 x 1-5/16 |
| C58-2626F..... | 1-5/8 x 1-5/8 |
| C58-3030F..... | 1-7/8 x 1-7/8 |

90 deg Elbow F/M BSPT x JIC



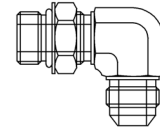
| P/Number..... | Thread |
|-----------------|--------------|
| CB58-0407F..... | 1/4 x 7/16 |
| CB58-0409F..... | 1/4 x 9/16 |
| CB58-0609F..... | 3/8 x 9/16 |
| CB58-0612F..... | 3/8 x 3/4 |
| CB58-0614F..... | 3/8 x 7/8 |
| CB58-0812F..... | 1/2 x 3/4 |
| CB58-0814F..... | 1/2 x 7/8 |
| CB58-1217F..... | 3/4 x 1-1/16 |
| CB58-1621F..... | 1 x 1-5/16 |

90 deg Elbow F/M NPTF x JIC



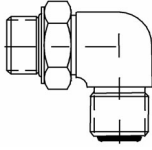
| P/Number..... | Thread |
|-------------------|--------------|
| * CN58-0207F..... | 1/8 x 7/16 |
| CN58-0407F..... | 1/4 x 7/16 |
| CN58-0409F..... | 1/4 x 9/16 |
| * CN58-0612..... | 3/8 x 3/4 |
| CN58-0812F..... | 1/2 x 3/4 |
| * CN58-1217..... | 3/4 x 1-1/16 |
| * CN58-1621..... | 1 x 1-5/16 |

90 deg Elbow M/M UNO x JIC



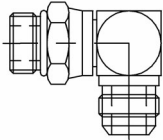
| P/Number..... | Thread |
|-----------------|-----------------|
| C59-0707F..... | 7/16 x 7/16 |
| C59-0708F..... | 7/16 x 1/2 |
| C59-0709F..... | 7/16 x 9/16 |
| C59-0712..... | 7/16 x 3/4 |
| C59-0807F..... | 1/2 x 7/16 |
| C59-0808F..... | 1/2 x 1/2 |
| C59-0809F..... | 1/2 x 9/16 |
| C59-0907F..... | 9/16 x 7/16 |
| C59-0908F..... | 9/16 x 1/2 |
| C59-0909F..... | 9/16 x 9/16 |
| C59-0912F..... | 9/16 x 3/4 |
| C59-1207F..... | 3/4 x 7/16 |
| C59-1208F..... | 3/4 x 1/2 |
| C59-1209F..... | 3/4 x 9/16 |
| C59-1212F..... | 3/4 x 3/4 |
| C59-1214F..... | 3/4 x 7/8 |
| C59-1217F..... | 3/4 x 1-1/16 |
| * C59-1221..... | 3/4 x 1-5/16 |
| C59-1409F..... | 7/8 x 9/16 |
| C59-1412F..... | 7/8 x 3/4 |
| C59-1414F..... | 7/8 x 7/8 |
| C59-1417F..... | 7/8 x 1-1/16 |
| C59-1421F..... | 7/8 x 1-5/16 |
| C59-1709F..... | 1-1/16 x 9/16 |
| C59-1712F..... | 1-1/16 x 3/4 |
| C59-1714F..... | 1-1/16 x 7/8 |
| C59-1717F..... | 1-1/16 x 1-1/16 |
| C59-1721F..... | 1-1/16 x 1-5/16 |
| C59-2117F..... | 1-5/16 x 1-1/16 |
| C59-2121F..... | 1-5/16 x 1-5/16 |
| C59-2126F..... | 1-5/16 x 1-5/8 |
| C59-2621F..... | 1-5/8 x 1-5/16 |
| C59-2626F..... | 1-5/8 x 1-5/8 |
| C59-2630F..... | 1-5/8 x 1-7/8 |
| C59-3021F..... | 1-7/8 x 1-5/16 |
| C59-3026..... | 1-7/8 x 1-5/8 |
| C59-3030..... | 1-7/8 x 1-7/8 |
| * C59-4040..... | 2-1/2 x 2-1/2 |

90 deg Elbow M/M UNO x ORFS



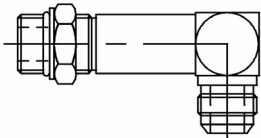
| P/Number..... | Thread |
|----------------|-----------------|
| F59-0709F..... | 7/16 x 9/16 |
| F59-0909F..... | 9/16 x 9/16 |
| F59-0911F..... | 9/16 x 11/16 |
| F59-1211F..... | 3/4 x 11/16 |
| F59-1213F..... | 3/4 x 13/16 |
| F59-1416F..... | 7/8 x 1 |
| F59-1719F..... | 1-1/16 x 1-3/16 |
| F59-2123F..... | 1-5/16 x 1-7/16 |

90 deg Elbow M/M UNO Swivel x JIC



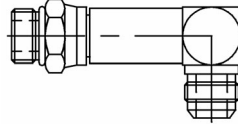
| P/Number..... | Thread |
|------------------|-----------------|
| CS59-1212..... | 3/4 x 3/4 |
| CS59-1214..... | 3/4 x 7/8 |
| CS59-1412..... | 7/8 x 3/4 |
| CS59-1414F..... | 7/8 x 7/8 |
| * CS59-1417..... | 7/8 x 1-1/16 |
| CS59-1717..... | 1-1/16 x 1-1/16 |

90 deg Elbow M/M UNO Ext. x JIC



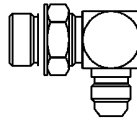
| P/Number..... | Thread |
|------------------|-----------------|
| CE59-0909..... | 9/16 x 9/16 |
| CE59-0912..... | 9/16 x 3/4 |
| CE59-1209..... | 3/4 x 9/16 |
| CE59-1212..... | 3/4 x 3/4 |
| CE59-1214..... | 3/4 x 7/8 |
| * CE59-1409..... | 7/8 x 9/16 |
| CE59-1412..... | 7/8 x 3/4 |
| CE59-1414..... | 7/8 x 7/8 |
| CE59-1417..... | 7/8 x 1-1/16 |
| CE59-1717..... | 1-1/16 x 1-1/16 |

90 deg Elbow M/M UNO Ext. Swivel x JIC



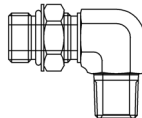
| P/Number..... | Thread |
|-------------------|-----------|
| CES59-1212..... | 3/4 x 3/4 |
| * CES59-1214..... | 3/4 x 7/8 |
| CES59-1412..... | 7/8 x 3/4 |
| * CES59-1414..... | 7/8 x 7/8 |

90 deg Elbow M/M UNO x JIC Orifice Elbow 0.9mm



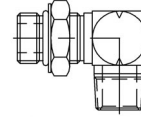
| P/Number..... | Thread |
|----------------|-------------|
| ZC59-0909..... | 9/16 x 9/16 |

90 deg Elbow M/M UNO x BSPT



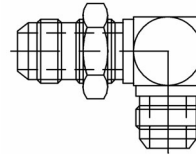
| P/Number..... | Thread |
|-----------------|--------------|
| CB59-0704F..... | 7/16 x 1/4 |
| CB59-0904F..... | 9/16 x 1/4 |
| CB59-0906F..... | 9/16 x 3/8 |
| CB59-1204F..... | 3/4 x 1/4 |
| CB59-1206F..... | 3/4 x 3/8 |
| CB59-1208F..... | 3/4 x 1/2 |
| CB59-1212F..... | 3/4 x 3/4 |
| CB59-1404F..... | 7/8 x 1/4 |
| CB59-1406F..... | 7/8 x 3/8 |
| CB59-1408F..... | 7/8 x 1/2 |
| CB59-1412F..... | 7/8 x 3/4 |
| CB59-1708F..... | 1-1/16 x 1/2 |
| CB59-1712F..... | 1-1/16 x 3/4 |
| CB59-1716F..... | 1-1/16 x 1 |
| CB59-2112F..... | 1-5/16 x 3/4 |
| CB59-2116F..... | 1-5/16 x 1 |

90 deg Elbow M/M UNO x NPTF



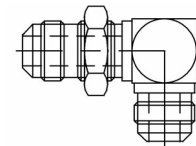
| P/Number..... | Thread |
|------------------|------------|
| CN59-0904..... | 9/16 x 1/4 |
| CN59-0906..... | 9/16 x 3/8 |
| CN59-1206..... | 3/4 x 3/8 |
| * CN59-1208..... | 3/4 x 1/2 |
| * CN59-1212..... | 3/4 x 3/4 |
| * CN59-1408..... | 7/8 x 1/2 |
| CN59-1412..... | 7/8 x 3/4 |

90 deg Elbow M/M JIC x JIC Bulkhead



| P/Number..... | Thread |
|-----------------|-----------------|
| C61-0707..... | 7/16 x 7/16 |
| * C61-0808..... | 1/2 x 1/2 |
| C61-0909..... | 9/16 x 9/16 |
| C61-1212..... | 3/4 x 3/4 |
| C61-1414..... | 7/8 x 7/8 |
| C61-1717..... | 1-1/16 x 1-1/16 |
| C61-2121..... | 1-5/16 x 1-5/16 |
| C61-2626..... | 1-5/8 x 1-5/8 |
| C61-3030..... | 1-7/8 x 1-7/8 |

90 deg Elbow M/M SAE x SAE Bulkhead



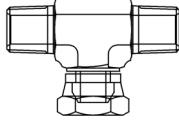
| P/Number..... | Thread |
|----------------|-----------|
| CA61-1010..... | 5/8 x 5/8 |
| CA61-1212..... | 3/4 x 3/4 |
| CA61-1414..... | 7/8 x 7/8 |

Section 4 Adaptors



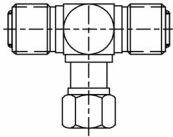
*Manufactured To Order (minimum qtls may apply)

Tee M/M/F BSPT x BSPT x BSPP



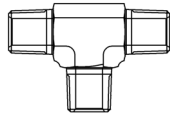
| P/Number..... | Thread |
|-------------------|-----------------|
| CB61-040404F..... | 1/4 x 1/4 x 1/4 |
| CB61-060606F..... | 3/8 x 3/8 x 3/8 |
| CB61-080808F..... | 1/2 x 1/2 x 1/2 |
| CB61-121212F..... | 3/4 x 3/4 x 3/4 |
| CB61-161616F..... | 1 x 1 x 1 |

Tee M/M/F ORFS x ORFS x ORFS



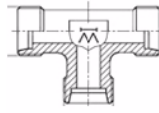
| P/Number..... | Thread |
|--------------------|--------------------------|
| * F61-090909F..... | 9/16 x 9/16 x 9/16 |
| * F61-111111F..... | 11/16 x 11/16 x 11/16 |
| * F61-131313F..... | 13/16 x 13/16 x 13/16 |
| * F61-161616F..... | 1 x 1 x 1 |
| * F61-191919F..... | 1-3/16 x 1-3/16 x 1-3/16 |

Tee M/M/M BSPT x BSPT x BSPT



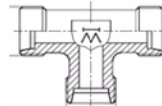
| P/Number..... | Thread |
|-------------------|-----------------------|
| CB62-020202F..... | 1/8 x 1/8 x 1/8 |
| CB62-040404F..... | 1/4 x 1/4 x 1/4 |
| CB62-060606F..... | 3/8 x 3/8 x 3/8 |
| CB62-080808F..... | 1/2 x 1/2 x 1/2 |
| CB62-121208F..... | 3/4 x 3/4 x 1/2 |
| CB62-121212F..... | 3/4 x 3/4 x 3/4 |
| CB62-161616F..... | 1 x 1 x 1 |
| CB62-202020..... | 1-1/4 x 1-1/4 x 1-1/4 |
| CB62-242424..... | 1-1/2 x 1-1/2 x 1-1/2 |
| CB62-323232..... | 2 x 2 x 2 |

Tee M/M/M Metric Light



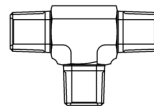
| P/Number..... | Tube OD..... | Thread |
|-------------------|--------------|--------|
| CM62L-121212..... | 6L..... | 12x1.5 |
| CM62L-141414..... | 8L..... | 14x1.5 |
| CM62L-161616..... | 10L..... | 16x1.5 |
| CM62L-181818..... | 12L..... | 18x1.5 |
| CM62L-222222..... | 15L..... | 22x1.5 |
| CM62L-262626..... | 18L..... | 26x1.5 |
| CM62L-303030..... | 22L..... | 30x2 |
| CM62L-363636..... | 28L..... | 36x2 |
| CM62L-454545..... | 35L..... | 45x2 |

Tee M/M/M Metric Heavy



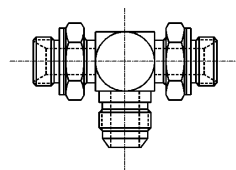
| P/Number..... | Tube OD..... | Thread |
|-------------------|--------------|--------|
| CM62S-141414..... | .6S..... | 14x1.5 |
| CM62S-161616..... | .8S..... | 16x1.5 |
| CM62S-181818..... | 1.0S..... | 18x1.5 |
| CM62S-202020..... | 1.2S..... | 20x1.5 |
| CM62S-222222..... | 1.4S..... | 22x1.5 |
| CM62S-242424..... | 1.6S..... | 24x1.5 |
| CM62S-303030..... | 2.0S..... | 30x2 |
| CM62S-363636..... | 2.5S..... | 36x2 |
| CM62S-424242..... | 3.0S..... | 42x2 |

Tee M/M/M NPTF x NPTF x NPTF



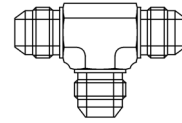
| P/Number..... | Thread |
|--------------------|-----------------|
| CN62-020202..... | 1/8 x 1/8 x 1/8 |
| CN62-040404F..... | 1/4 x 1/4 x 1/4 |
| CN62-060606F..... | 3/8 x 3/8 x 3/8 |
| CN62-080808F..... | 1/2 x 1/2 x 1/2 |
| CN62-121212F..... | 3/4 x 3/4 x 3/4 |
| * CN62-161616..... | 1 x 1 x 1 |

Tee M/M/M BSPP x BSPP x BSPP



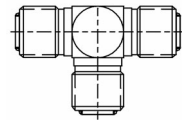
| P/Number..... | Thread |
|---------------------|-----------------|
| * ZCP62-080814..... | 1/2 x 1/2 x 7/8 |

Tee M/M/M JIC x JIC x JIC



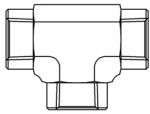
| P/Number..... | Thread |
|--------------------|--------------------------|
| C63-070707F..... | 7/16 x 7/16 x 7/16 |
| C63-080808F..... | 1/2 x 1/2 x 1/2 |
| C63-090909F..... | 9/16 x 9/16 x 9/16 |
| C63-121209F..... | 3/4 x 3/4 x 9/16 |
| C63-120912F..... | 3/4 x 9/16 x 3/4 |
| C63-121212F..... | 3/4 x 3/4 x 3/4 |
| C63-121214F..... | 3/4 x 3/4 x 7/8 |
| C63-121217F..... | 3/4 x 3/4 x 1-1/16 |
| C63-141214F..... | 7/8 x 3/4 x 7/8 |
| * C63-141412F..... | 7/8 x 3/4 x 7/8 |
| C63-141414F..... | 7/8 x 7/8 x 7/8 |
| C63-141417F..... | 7/8 x 7/8 x 1-1/16 |
| C63-171414F..... | 1-1/16 x 7/8 x 7/8 |
| C63-171417F..... | 1-1/16 x 7/8 x 1-1/16 |
| C63-171712F..... | 1-1/16 x 1-1/16 x 3/4 |
| C63-171714F..... | 1-1/16 x 1-1/16 x 7/8 |
| C63-171717F.. | 1-1/16 x 1-1/16 x 1-1/16 |
| C63-212112F..... | 1-5/16 x 1-5/16 x 3/4 |
| C63-212114F..... | 1-5/16 x 1-5/16 x 7/8 |
| C63-212117F.. | 1-5/16 x 1-5/16 x 1-1/16 |
| C63-212121F.. | 1-5/16 x 1-5/16 x 1-5/16 |
| C63-262626..... | 1-5/8 x 1-5/8 x 1-5/8 |
| C63-303030..... | 1-7/8 x 1-7/8 x 1-7/8 |
| C63-404040..... | 2-1/2 x 2-1/2 x 2-1/2 |

Tee M/M/M ORFS x ORFS x ORFS



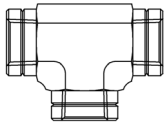
| P/Number..... | Thread |
|------------------|--------------------------|
| F63-090909F..... | 9/16 x 9/16 x 9/16 |
| F63-111111F..... | 11/16 x 11/16 x 11/16 |
| F63-131313F..... | 13/16 x 13/16 x 13/16 |
| F63-161616F..... | 1 x 1 x 1 |
| F63-191919F.. | 1-3/16 x 1-3/16 x 1-3/16 |
| F63-232323... | 1-7/16 x 1-7/16 x 1-7/16 |

Tee F/F/F BSPT x BSPT x BSPT



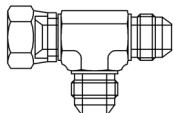
| P/Number | Thread |
|--------------|-----------------------|
| CB63-020202F | 1/8 x 1/8 x 1/8 |
| CB63-040404F | 1/4 x 1/4 x 1/4 |
| CB63-060606F | 3/8 x 3/8 x 3/8 |
| CB63-080808F | 1/2 x 1/2 x 1/2 |
| CB63-121212F | 3/4 x 3/4 x 3/4 |
| CB63-161616 | 1 x 1 x 1 |
| CB63-202020 | 1-1/4 x 1-1/4 x 1-1/4 |
| CB63-242424 | 1-1/2 x 1-1/2 x 1-1/2 |
| CB63-323232 | 2 x 2 x 2 |

Tee F/F/F NPTF x NPTF x NPTF



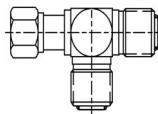
| P/Number | Thread |
|--------------|-----------------------|
| CN63-020202F | 1/8 x 1/8 x 1/8 |
| CN63-040404F | 1/4 x 1/4 x 1/4 |
| CN63-060606F | 3/8 x 3/8 x 3/8 |
| CN63-080808F | 1/2 x 1/2 x 1/2 |
| CN63-121212F | 3/4 x 3/4 x 3/4 |
| CN63-161616 | 1 x 1 x 1 |
| CN63-202020 | 1-1/4 x 1-1/4 x 1-1/4 |
| CN63-242424 | 1-1/2 x 1-1/2 x 1-1/2 |
| CN63-323232 | 2 x 2 x 2 |

Tee F/M/M JIC x JIC x JIC



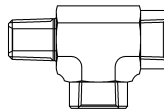
| P/Number | Thread |
|--------------|--------------------------|
| C64-070707F | 7/16 x 7/16 x 7/16 |
| C64-080808F | 1/2 x 1/2 x 1/2 |
| C64-090909F | 9/16 x 9/16 x 9/16 |
| C64-121212F | 3/4 x 3/4 x 3/4 |
| C64-141414F | 7/8 x 7/8 x 7/8 |
| ZC64-141714F | 7/8 x 1-1/16 x 7/8 |
| C64-171717F | 1-1/16 x 1-1/16 x 1-1/16 |
| C64-172117F | 1-1/16 x 1-5/16 x 1-1/16 |
| C64-212117F | 1-5/16 x 1-5/16 x 1-1/16 |
| C64-212121F | 1-5/16 x 1-5/16 x 1-5/16 |
| C64-262626 | 1-5/8 x 1-5/8 x 1-5/8 |
| C64-303030 | 1-7/8 x 1-7/8 x 1-7/8 |
| C64-404040 | 2-1/2 x 2-1/2 x 2-1/2 |

Tee F/M/M ORFS x ORFS x ORFS



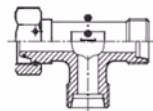
| P/Number | Thread |
|-------------|--------------------------|
| F64-090909F | 9/16 x 9/16 x 9/16 |
| F64-111111F | 11/16 x 11/16 x 11/16 |
| F64-131313F | 13/16 x 13/16 x 13/16 |
| F64-161616F | 1 x 1 x 1 |
| F64-191919F | 1-3/16 x 1-3/16 x 1-3/16 |
| F64-232323 | 1-7/16 x 1-7/16 x 1-7/16 |

Tee M/F/F BSPT x BSPT x BSPT



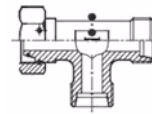
| P/Number | Thread |
|--------------|-----------------------|
| CB64-020202F | 1/8 x 1/8 x 1/8 |
| CB64-040404F | 1/4 x 1/4 x 1/4 |
| CB64-060606F | 3/8 x 3/8 x 3/8 |
| CB64-080808F | 1/2 x 1/2 x 1/2 |
| CB64-121212F | 3/4 x 3/4 x 3/4 |
| CB64-161616 | 1 x 1 x 1 |
| CB64-202020 | 1-1/4 x 1-1/4 x 1-1/4 |
| CB64-242424 | 1-1/2 x 1-1/2 x 1-1/2 |

Tee F/M/M Metric Light



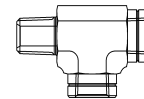
| P/Number | Tube OD | Thread |
|--------------|---------|--------|
| CM64L-121212 | 6L | 12x1.5 |
| CM64L-141414 | 8L | 14x1.5 |
| CM64L-161616 | 10L | 16x1.5 |
| CM64L-181818 | 12L | 18x1.5 |
| CM64L-222222 | 15L | 22x1.5 |
| CM64L-262626 | 18L | 26x1.5 |
| CM64L-303030 | 22L | 30x2 |
| CM64L-363636 | 28L | 36x2 |

Tee F/M/M Metric Heavy



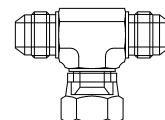
| P/Number | Tube OD | Thread |
|--------------|---------|--------|
| CM64S-141414 | 6S | 14x1.5 |
| CM64S-161616 | 8S | 16x1.5 |
| CM64S-181818 | 10S | 18x1.5 |
| CM64S-202020 | 12S | 20x1.5 |
| CM64S-222222 | 14S | 22x1.5 |
| CM64S-242424 | 16S | 24x1.5 |
| CM64S-303030 | 20S | 30x2 |
| CM64S-363636 | 25S | 36x2 |

Tee M/F/F NPTF x NPTF x NPTF



| P/Number | Thread |
|--------------|-----------------------|
| CN64-020202F | 1/8 x 1/8 x 1/8 |
| CN64-040404F | 1/4 x 1/4 x 1/4 |
| CN64-060606F | 3/8 x 3/8 x 3/8 |
| CN64-080808F | 1/2 x 1/2 x 1/2 |
| CN64-121212F | 3/4 x 3/4 x 3/4 |
| CN64-161616 | 1 x 1 x 1 |
| CN64-202020 | 1-1/4 x 1-1/4 x 1-1/4 |

Tee M/M/F JIC x JIC x JIC



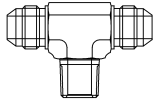
| P/Number | Thread |
|--------------|--------------------------|
| C65-070707F | 7/16 x 7/16 x 7/16 |
| * C65-080808 | 1/2 x 1/2 x 1/2 |
| C65-090909F | 9/16 x 9/16 x 9/16 |
| C65-121212F | 3/4 x 3/4 x 3/4 |
| C65-141414F | 7/8 x 7/8 x 7/8 |
| C65-171717F | 1-1/16 x 1-1/16 x 1-1/16 |
| C65-212121F | 1-5/16 x 1-5/16 x 1-5/16 |
| C65-262626 | 1-5/8 x 1-5/8 x 1-5/8 |
| C65-303030 | 1-7/8 x 1-7/8 x 1-7/8 |
| C65-404040 | 2-1/2 x 2-1/2 x 2-1/2 |

Section 4 Adaptors



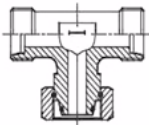
*Manufactured To Order (minimum qtys may apply)

Tee M/M/M JIC x JIC x BSPT



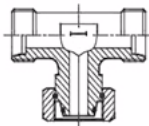
| P/Number..... | Thread |
|---------------------|-----------------------|
| CB65-070702F | 7/16 x 7/16 x 1/8 |
| CB65-070704F | 7/16 x 7/16 x 1/4 |
| CB65-090904F | 9/16 x 9/16 x 1/4 |
| CB65-090906F | 9/16 x 9/16 x 3/8 |
| CB65-121204F | 3/4 x 3/4 x 1/4 |
| CB65-121206F | 3/4 x 3/4 x 3/8 |
| CB65-121208F | 3/4 x 3/4 x 1/2 |
| CB65-121212F | 3/4 x 3/4 x 3/4 |
| CB65-141406F | 7/8 x 7/8 x 3/8 |
| CB65-141408F | 7/8 x 7/8 x 1/2 |
| CB65-141412F | 7/8 x 7/8 x 3/4 |
| CB65-171712F | 1-1/16 x 1-1/16 x 3/4 |
| CB65-212116F | 1-5/16 x 1-5/16 x 1 |
| CB65-262620 | 1-5/8 x 1-5/8 x 1-1/4 |
| * CB65-303024 | 1-7/8 x 1-7/8 x 1-1/2 |

Tee M/M/F Metric Light



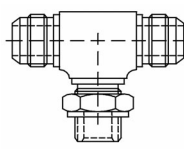
| P/Number..... | Tube OD..... | Thread |
|--------------------|--------------|--------|
| CM65L-121212 | 6L..... | 12x1.5 |
| CM65L-141414 | 8L..... | 14x1.5 |
| CM65L-161616 | 10L..... | 16x1.5 |
| CM65L-181818 | 12L..... | 18x1.5 |
| CM65L-222222 | 15L..... | 22x1.5 |
| CM65L-262626 | 18L..... | 26x1.5 |
| CM65L-303030 | 22L..... | 30x2 |
| CM65L-363636 | 28L..... | 36x2 |

Tee M/M/F Metric Heavy



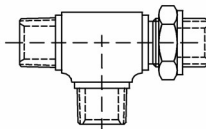
| P/Number..... | Tube OD..... | Thread |
|--------------------|--------------|--------|
| CM65S-141414 | 6S..... | 14x1.5 |
| CM65S-161616 | 8S..... | 16x1.5 |
| CM65S-181818 | 10S..... | 18x1.5 |
| CM65S-202020 | 12S..... | 20x1.5 |
| CM65S-222222 | 14S..... | 22x1.5 |
| CM65S-242424 | 16S..... | 24x1.5 |
| CM65S-303030 | 20S..... | 30x2 |
| CM65S-363636 | 25S..... | 36x2 |

Tee M/M/M JIC x JIC x BSPP



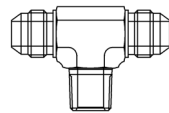
| P/Number..... | Thread |
|--------------------|-----------------------|
| CP65-070704F | 7/16 x 7/16 x 1/4 |
| CP65-090904F | 9/16 x 9/16 x 1/4 |
| CP65-090906F | 9/16 x 9/16 x 3/8 |
| CP65-090908F | 9/16 x 9/16 x 1/2 |
| CP65-121206F | 3/4 x 3/4 x 3/8 |
| CP65-121208F | 3/4 x 3/4 x 1/2 |
| CP65-141408F | 7/8 x 7/8 x 1/2 |
| CP65-141412F | 7/8 x 7/8 x 3/4 |
| CP65-171712F | 1-1/16 x 1-1/16 x 3/4 |
| CP65-212116F | 1-5/16 x 1-5/16 x 1 |

Tee M/M/M BSPT X BSPP X BSPT



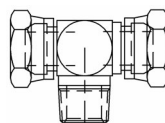
| P/Number..... | Thread |
|-----------------------|-----------------|
| * CBP65-040404F | 1/4 x 1/4 x 1/4 |
| * CBP65-121212F | 3/4 x 3/4 x 3/4 |

Tee M/M/M JIC x JIC x NPTF



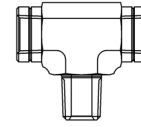
| P/Number..... | Thread |
|----------------------|-----------------------|
| CN65-070702F | 7/16 x 7/16 x 1/8 |
| CN65-070704F | 7/16 x 7/16 x 1/4 |
| * CN65-080804 | 1/2 x 1/2 x 1/4 |
| CN65-090904F | 9/16 x 9/16 x 1/4 |
| CN65-090906F | 9/16 x 9/16 x 3/8 |
| CN65-121206F | 3/4 x 3/4 x 3/8 |
| CN65-121208F | 3/4 x 3/4 x 1/2 |
| CN65-141408F | 7/8 x 7/8 x 1/2 |
| CN65-141412F | 7/8 x 7/8 x 3/4 |
| * CN65-171708F | 1-1/16 x 1-1/16 x 1/2 |
| * CN65-171712 | 1-1/16 x 1-1/16 x 3/4 |
| CN65-212116 | 1-5/16 x 1-5/16 x 1 |

Tee F/F/M BSPP x BSPP x BSPT



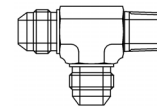
| P/Number..... | Thread |
|---------------------|-----------------|
| CBS66-040404 | 1/4 x 1/4 x 1/4 |
| CBS66-060606F | 3/8 x 3/8 x 3/8 |
| CBS66-080808 | 1/2 x 1/2 x 1/2 |

Tee F/F/M NPTF x NPTF x NPTF



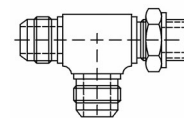
| P/Number..... | Thread |
|---------------------|-----------------------|
| CN66-020202F | 1/8 x 1/8 x 1/8 |
| CN66-040404F | 1/4 x 1/4 x 1/4 |
| CN66-060606F | 3/8 x 3/8 x 3/8 |
| CN66-080808F | 1/2 x 1/2 x 1/2 |
| CN66-121212F | 3/4 x 3/4 x 3/4 |
| * CN66-161616 | 1 x 1 x 1 |
| * CN66-202020 | 1-1/4 x 1-1/4 x 1-1/4 |

Tee M/M/M JIC x BSPT x JIC



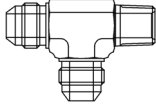
| P/Number..... | Thread |
|--------------------|-----------------------|
| CB67-070207F | 7/16 x 1/8 x 7/16 |
| CB67-070407F | 7/16 x 1/4 x 7/16 |
| CB67-090409F | 9/16 x 1/4 x 9/16 |
| CB67-090609F | 9/16 x 3/8 x 9/16 |
| CB67-120612F | 3/4 x 3/8 x 3/4 |
| CB67-120812F | 3/4 x 1/2 x 3/4 |
| CB67-140814F | 7/8 x 1/2 x 7/8 |
| CB67-171217F | 1-1/16 x 3/4 x 1-1/16 |
| CB67-211621F | 1-5/16 x 1 x 1-5/16 |

Tee M/M/M JIC x BSPP x JIC



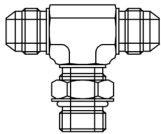
| P/Number..... | Thread |
|---------------------|-----------------------|
| CP67-070407F | 7/16 x 1/4 x 7/16 |
| CP67-090409F | 9/16 x 1/4 x 9/16 |
| CP67-090609F | 9/16 x 3/8 x 9/16 |
| CP67-120612F | 3/4 x 3/8 x 3/4 |
| CP67-120812F | 3/4 x 1/2 x 3/4 |
| CP67-140814F | 7/8 x 1/2 x 7/8 |
| * CP67-170817 | 1-1/16 x 1/2 x 1-1/16 |
| CP67-171217F | 1-1/16 x 3/4 x 1-1/16 |
| CP67-211621F | 1-5/16 x 1 x 1-5/16 |
| * CP67-262026 | 1-5/8 x 1-1/4 x 1-5/8 |
| * CP67-262426 | 1-5/8 x 1-1/2 x 1-5/8 |
| * CP67-302430 | 1-7/8 x 1-1/2 x 1-7/8 |

Tee M/M/M JIC x NPT x JIC



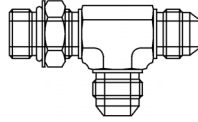
| P/Number | Thread |
|----------------|-----------------------|
| CN67-070207F | 7/16 x 1/8 x 7/16 |
| * CN67-070407F | 7/16 x 1/4 x 7/16 |
| CN67-080208 | 1/2 x 1/8 x 1/2 |
| * CN67-080408 | 1/2 x 1/4 x 1/2 |
| CN67-090409F | 9/16 x 1/4 x 9/16 |
| CN67-090609F | 9/16 x 3/8 x 9/16 |
| CN67-120612F | 3/4 x 3/8 x 3/4 |
| CN67-120812F | 3/4 x 1/2 x 3/4 |
| CN67-140814F | 7/8 x 1/2 x 7/8 |
| CN67-171217F | 1-1/16 x 3/4 x 1-1/16 |
| CN67-211621F | 1-5/16 x 1 x 1-5/16 |

Tee M/M/M JIC x JIC x UNO



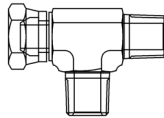
| P/Number | Thread |
|--------------|--------------------------|
| C68-070707F | 7/16 x 7/16 x 7/16 |
| C68-090907F | 9/16 x 9/16 x 7/16 |
| C68-090909F | 9/16 x 9/16 x 9/16 |
| C68-090912F | 9/16 x 9/16 x 3/4 |
| C68-121209F | 3/4 x 3/4 x 9/16 |
| C68-121212F | 3/4 x 3/4 x 3/4 |
| * C68-141214 | 7/8 x 3/4 x 7/8 |
| C68-141412F | 7/8 x 7/8 x 3/4 |
| C68-141414F | 7/8 x 7/8 x 7/8 |
| C68-171717F | 1-1/16 x 1-1/16 x 1-1/16 |
| * C68-212117 | 1-5/16 x 1-5/16 x 1-1/16 |
| C68-212121 | 1-5/16 x 1-5/16 x 1-5/16 |
| * C68-262626 | 1-5/8 x 1-5/8 x 1-5/8 |

Tee M/M/M UNO x JIC x JIC



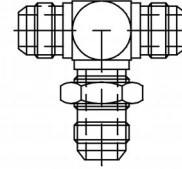
| P/Number | Thread |
|---------------|--------------------------|
| C69-070707F | 7/16 x 7/16 x 7/16 |
| C69-080808F | 1/2 x 1/2 x 1/2 |
| C69-090909F | 9/16 x 9/16 x 9/16 |
| * C69-091212F | 9/16 x 3/4 x 3/4 |
| C69-120909F | 3/4 x 9/16 x 9/16 |
| C69-121212F | 3/4 x 3/4 x 3/4 |
| C69-141212F | 7/8 x 3/4 x 3/4 |
| C69-141414F | 7/8 x 7/8 x 7/8 |
| C69-141717F | 7/8 x 1-1/16 x 1-1/16 |
| C69-171414F | 1-1/16 x 7/8 x 7/8 |
| C69-171712F | 1-1/16 x 1-1/16 x 3/4 |
| C69-171717F | 1-1/16 x 1-1/16 x 1-1/16 |
| * C69-211717 | 1-5/16 x 1-1/16 x 1-1/16 |
| C69-212121F | 1-5/16 x 1-5/16 x 1-5/16 |

Tee F/M/M BSPP x BSPT x BSPT



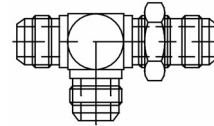
| P/Number | Thread |
|--------------|-----------------------|
| CB69-040404F | 1/4 x 1/4 x 1/4 |
| CB69-060606F | 3/8 x 3/8 x 3/8 |
| CB69-080808F | 1/2 x 1/2 x 1/2 |
| CB69-121204F | 3/4 x 3/4 x 1/4 |
| CB69-121212F | 3/4 x 3/4 x 3/4 |
| CB69-161616F | 1 x 1 x 1 |
| CB69-202020 | 1-1/4 x 1-1/4 x 1-1/4 |

Tee M/M/M JIC x JIC x JIC Bulkhead



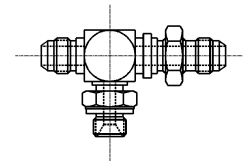
| P/Number | Thread |
|--------------|--------------------------|
| C70-070707 | 7/16 x 7/16 x 7/16 |
| C70-090909 | 9/16 x 9/16 x 9/16 |
| C70-121212 | 3/4 x 3/4 x 3/4 |
| C70-141414 | 7/8 x 7/8 x 7/8 |
| C70-171717 | 1-1/16 x 1-1/16 x 1-1/16 |
| C70-212121 | 1-5/16 x 1-5/16 x 1-5/16 |
| * C70-262626 | 1-5/8 x 1-5/8 x 1-5/8 |

Tee M/M/M JIC x JIC Bulkhead x JIC



| P/Number | Thread |
|--------------|--------------------------|
| C71-070707 | 7/16 x 7/16 x 7/16 |
| C71-090909 | 9/16 x 9/16 x 9/16 |
| C71-121212 | 3/4 x 3/4 x 3/4 |
| C71-141414 | 7/8 x 7/8 x 7/8 |
| C71-171717 | 1-1/16 x 1-1/16 x 1-1/16 |
| C71-212121 | 1-5/16 x 1-5/16 x 1-5/16 |
| * C71-262626 | 1-5/8 x 1-5/8 x 1-5/8 |

Tee M/M/M JIC x JIC Bulkhead x BSPP



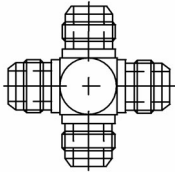
| P/Number | Thread |
|--------------|-------------------|
| ZCP71-090904 | 9/16 x 9/16 x 1/4 |

Section 4 Adaptors



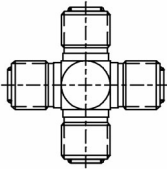
*Manufactured To Order (minimum qtys may apply)

Cross M/M/M/M 4 x JIC



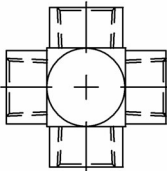
| P/Number..... | Thread |
|------------------|--------|
| C72-07X4 | 7/16 |
| C72-09X4 | 9/16 |
| C72-12X4 | 3/4 |
| C72-14X4 | 7/8 |
| C72-17X4 | 1-1/16 |
| * C72-21X4 | 1-5/16 |

Cross M/M/M/M 4 x ORFS



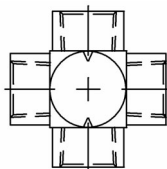
| P/Number..... | Thread |
|----------------|--------|
| F72-11X4 | 11/16 |

Cross F/F/F/F 4 x BSPT



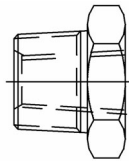
| P/Number..... | Thread |
|-----------------|--------|
| CB72-04X4 | 1/4 |
| CB72-06X4 | 3/8 |
| CB72-08X4 | 1/2 |
| CB72-12X4 | 3/4 |
| CB72-16X4 | 1 |

Cross F/F/F/F 4 x NPTF



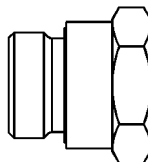
| P/Number..... | Thread |
|-------------------|--------|
| * CN72-02X4 | 1/8 |
| CN72-04X4 | 1/4 |
| CN72-06X4 | 3/8 |
| CN72-08X4 | 1/2 |
| * CN72-12X4 | 3/4 |
| * CN72-16X4 | 1 |

Reducing Bush M/F BSPT x BSPT



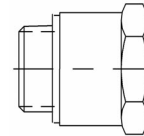
| P/Number..... | Thread |
|-----------------|---------------|
| CB73-0402 | 1/4 x 1/8 |
| CB73-0602 | 3/8 x 1/8 |
| CB73-0604 | 3/8 x 1/4 |
| CB73-0802 | 1/2 x 1/8 |
| CB73-0804 | 1/2 x 1/4 |
| CB73-0806 | 1/2 x 3/8 |
| CB73-1204 | 3/4 x 1/4 |
| CB73-1206 | 3/4 x 3/8 |
| CB73-1208 | 3/4 x 1/2 |
| CB73-1606 | 1 x 3/8 |
| CB73-1608 | 1 x 1/2 |
| CB73-1612 | 1 x 3/4 |
| CB73-2008 | 1-1/4 x 1/2 |
| CB73-2012 | 1-1/4 x 3/4 |
| CB73-2016 | 1-1/4 x 1 |
| CB73-2412 | 1-1/2 x 3/4 |
| CB73-2416 | 1-1/2 x 1 |
| CB73-2420 | 1-1/2 x 1-1/4 |
| CB73-3216 | 2 x 1 |
| CB73-3220 | 2 x 1-1/4 |
| CB73-3224 | 2 x 1-1/2 |

Reducing Bush M/F BSPP x BSPP Encapsulated Seal



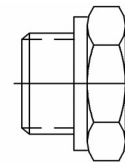
| P/Number..... | Thread |
|-----------------|---------------|
| CR73-0604 | 3/8 x 1/4 |
| CR73-1608 | 1 x 1/2 |
| CR73-1612 | 1 x 3/4 |
| CR73-2016 | 1-1/4 x 1 |
| CR73-2416 | 1-1/2 x 1 |
| CR73-2420 | 1-1/2 x 1-1/4 |

Reducing Bush M/F BSPP x BSPP Style A



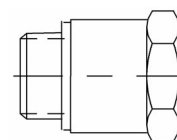
| P/Number | Thread |
|-------------------|---------------|
| CP73-0602 | 3/8 x 1/8 |
| CP73-0604 | 3/8 x 1/4 |
| CP73-0804 | 1/2 x 1/4 |
| CP73-0806 | 1/2 x 3/8 |
| CP73-1206 | 3/4 x 3/8 |
| CP73-1208 | 3/4 x 1/2 |
| CP73-1612 | 1 x 3/4 |
| CP73-2016 | 1-1/4 x 1 |
| * CP73-2416 | 1-1/2 x 1 |
| * CP73-2420 | 1-1/2 x 1-1/4 |
| CP73-3224 | 2 x 1-1/2 |

Reducing Bush M/F BSPP x BSPP Style B



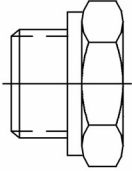
| P/Number | Thread |
|-------------------|-------------|
| CP73-1204 | 3/4 x 1/4 |
| CP73-1608 | 1 x 1/2 |
| CP73-2012 | 1-1/4 x 3/4 |
| CP73-2408 | 1-1/2 x 1/2 |
| CP73-2412 | 1-1/2 x 3/4 |
| * CP73-3212 | 2 x 3/4 |
| * CP73-3216 | 2 x 1 |
| CP73-3220 | 2 x 1-1/4 |

Reducing Bush M/F BSPP x BSPT Style A



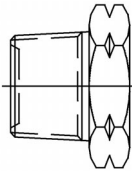
| P/Number | Thread |
|------------------|---------------|
| CPB73-2420 | 1-1/2 x 1-1/4 |

Reducing Bush M/F BSPP x BSPT Style B



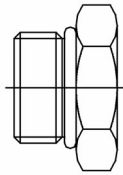
| P/Number..... | Thread |
|-------------------|---------------|
| * CPB73-0804..... | 1/2 x 1/4 |
| * CPB73-1206..... | 3/4 x 3/8 |
| * CPB73-2012..... | 1-1/4 x 3/4 |
| * CPB73-2412..... | 1-1/2 x 3/4 |
| * CPB73-2416..... | 1-1/2 x 1 |
| * CPB73-2420..... | 1-1/2 x 1-1/4 |

Reducing Bush M/F NPTF x NPTF



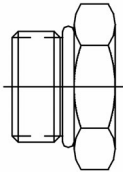
| P/Number..... | Thread |
|------------------|---------------|
| CN73-0402..... | 1/4 x 1/8 |
| CN73-0602..... | 3/8 x 1/8 |
| CN73-0604..... | 3/8 x 1/4 |
| CN73-0802..... | 1/2 x 1/8 |
| CN73-0804..... | 1/2 x 1/4 |
| CN73-0806..... | 1/2 x 3/8 |
| CN73-1202..... | 3/4 x 1/8 |
| CN73-1204..... | 3/4 x 1/4 |
| CN73-1206..... | 3/4 x 3/8 |
| CN73-1208..... | 3/4 x 1/2 |
| * CN73-1606..... | 1 x 3/8 |
| CN73-1608..... | 1 x 1/2 |
| CN73-1612..... | 1 x 3/4 |
| * CN73-2008..... | 1-1/4 x 1/2 |
| CN73-2012..... | 1-1/4 x 3/4 |
| CN73-2016..... | 1-1/4 x 1 |
| CN73-2412..... | 1-1/2 x 3/4 |
| CN73-2416..... | 1-1/2 x 1 |
| CN73-2420..... | 1-1/2 x 1-1/4 |
| * CN73-3212..... | 2 x 3/4 |
| CN73-3216..... | 2 x 1 |
| CN73-3220..... | 2 x 1-1/4 |
| CN73-3224..... | 2 x 1-1/2 |

Reducing Bush M/F UNO x UNO



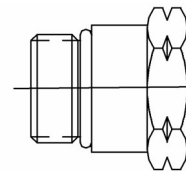
| P/Number..... | Thread |
|-----------------|-----------------|
| C74-0908..... | 9/16 x 1/2 |
| C74-1209..... | 3/4 x 9/16 |
| C74-1409..... | 7/8 x 9/16 |
| C74-1709..... | 1-1/16 x 9/16 |
| C74-1712..... | 1-1/16 x 3/4 |
| C74-2112..... | 1-5/16 x 3/4 |
| C74-2114..... | 1-5/16 x 7/8 |
| C74-2117..... | 1-5/16 x 1-1/16 |
| * C74-2612..... | 1-5/8 x 3/4 |
| C74-2617..... | 1-5/8 x 1-1/16 |
| C74-2621..... | 1-5/8 x 1-5/16 |
| C74-3017..... | 1-7/8 x 1-1/16 |
| * C74-3021..... | 1-7/8 x 1-5/16 |

Reducing Bush M/F UNO x BSPT



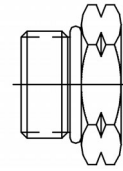
| P/Number..... | Thread |
|------------------|--------------|
| * CB74-0902..... | 3/4 x 1/8 |
| CB74-1202..... | 3/4 x 1/8 |
| CB74-1204..... | 3/4 x 1/4 |
| CB74-1402..... | 7/8 x 1/8 |
| CB74-1404..... | 7/8 x 1/4 |
| * CB74-1406..... | 7/8 x 3/8 |
| CB74-1704..... | 1-1/16 x 1/4 |
| CB74-1706..... | 1-1/16 x 3/8 |
| * CB74-1708..... | 1-1/16 x 1/2 |
| * CB74-2104..... | 1-5/16 x 1/4 |
| * CB74-2106..... | 1-5/16 x 3/8 |
| CB74-2108..... | 1-5/16 x 1/2 |
| CB74-2112..... | 1-5/16 x 3/4 |
| * CB74-2612..... | 1-5/8 x 3/4 |
| * CB74-2616..... | 1-5/8 x 1 |

Reducing Bush M/F UNO x NPTF Style A



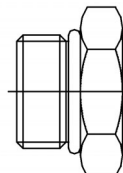
| P/Number..... | Thread |
|------------------|--------------|
| * CN74-1708..... | 1-1/16 x 1/2 |
| * CN74-2108..... | 1-5/16 x 1/2 |
| * CN74-2112..... | 1-5/16 x 3/4 |

Reducing Bush M/F UNO x NPTF Style B



| P/Number..... | Thread |
|------------------|--------------|
| * CN74-1202..... | 3/4 x 1/8 |
| CN74-1204..... | 3/4 x 1/4 |
| CN74-1402..... | 7/8 x 1/8 |
| * CN74-1404..... | 7/8 x 1/4 |
| * CN74-1704..... | 1-1/16 x 1/4 |
| CN74-1706..... | 1-1/16 x 3/8 |
| CN74-2108..... | 1-5/16 x 1/2 |

Plug UNO



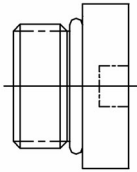
| P/Number..... | Thread |
|---------------|--------|
| C77-06..... | 3/8 |
| C77-07..... | 7/16 |
| C77-08..... | 1/2 |
| C77-09..... | 9/16 |
| C77-12..... | 3/4 |
| C77-14..... | 7/8 |
| C77-17..... | 1-1/16 |
| C77-19..... | 1-3/16 |
| C77-21..... | 1-5/16 |
| C77-26..... | 1-5/8 |
| C77-30..... | 1-7/8 |
| C77-40..... | 2-1/2 |

Section 4 Adaptors



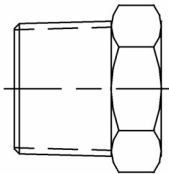
*Manufactured To Order (minimum qtys may apply)

Plug UNO Socket Head



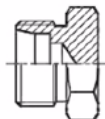
| P/Number..... | Thread |
|---------------|--------|
| C77S-05..... | 5/16 |
| C77S-06..... | 3/8 |
| C77S-07..... | 7/16 |
| C77S-08..... | 1/2 |
| C77S-09..... | 9/16 |
| C77S-12..... | 3/4 |
| C77S-14..... | 7/8 |
| C77S-17..... | 1-1/16 |

Plug BSPT



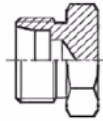
| P/Number..... | Thread |
|----------------|--------|
| CB77-02..... | 1/8 |
| CB77-04..... | 1/4 |
| CB77-06..... | 3/8 |
| CB77-08..... | 1/2 |
| CB77-12..... | 3/4 |
| CB77-16..... | 1 |
| CB77-20..... | 1-1/4 |
| CB77-24..... | 1-1/2 |
| CB77-32..... | 2 |
| * CB77-40..... | 2-1/2 |

Plug Metric Light



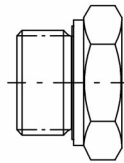
| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| CM77L-12..... | 6L..... | 12x1.5 |
| CM77L-14..... | 8L..... | 14x1.5 |
| CM77L-16..... | 10L..... | 16x1.5 |
| CM77L-18..... | 12L..... | 18x1.5 |
| CM77L-22..... | 15L..... | 22x1.5 |
| CM77L-26..... | 18L..... | 26x1.5 |
| CM77L-30..... | 22L..... | 30x2 |
| CM77L-36..... | 28L..... | 36x2 |
| CM77L-45..... | 35L..... | 45x2 |

Plug Metric Heavy



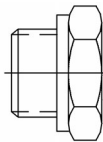
| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| CM77S-14..... | 6S..... | 14x1.5 |
| CM77S-16..... | 8S..... | 16x1.5 |
| CM77S-18..... | 10S..... | 18x1.5 |
| CM77S-20..... | 12S..... | 20x1.5 |
| CM77S-22..... | 14S..... | 22x1.5 |
| CM77S-24..... | 16S..... | 24x1.5 |
| CM77S-30..... | 20S..... | 30x2 |
| CM77S-36..... | 25S..... | 36x2 |
| CM77S-42..... | 30S..... | 42x2 |

Plug BSPP Encapsulated Seal



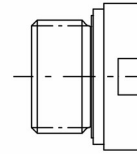
| P/Number..... | Thread |
|---------------|--------|
| CR77-02..... | 1/8 |
| CR77-04..... | 1/4 |
| CR77-06..... | 3/8 |
| CR77-08..... | 1/2 |
| CR77-12..... | 3/4 |
| CR77-16..... | 1 |
| CR77-20..... | 1-1/4 |
| CR77-24..... | 1-1/2 |

Plug BSPP



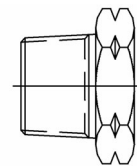
| P/Number..... | Thread |
|---------------|--------|
| CP77-02..... | 1/8 |
| CP77-04..... | 1/4 |
| CP77-06..... | 3/8 |
| CP77-08..... | 1/2 |
| CP77-12..... | 3/4 |
| CP77-16..... | 1 |
| CP77-20..... | 1-1/4 |
| CP77-24..... | 1-1/2 |
| CP77-32..... | 2 |

Plug BSPP Socket Head



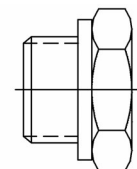
| P/Number..... | Thread |
|---------------|--------|
| CR77S-02..... | 1/8 |
| CR77S-04..... | 1/4 |
| CR77S-06..... | 3/8 |
| CR77S-08..... | 1/2 |
| CR77S-12..... | 3/4 |
| CR77S-16..... | 1 |

Plug NPTF



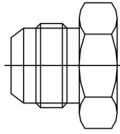
| P/Number..... | Thread |
|---------------|--------|
| CN77-02..... | 1/8 |
| CN77-04..... | 1/4 |
| CN77-06..... | 3/8 |
| CN77-08..... | 1/2 |
| CN77-12..... | 3/4 |
| CN77-16..... | 1 |
| CN77-20..... | 1-1/4 |
| CN77-24..... | 1-1/2 |
| CN77-32..... | 2 |

Plug Metric 1.5mm Pitch



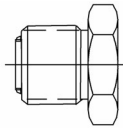
| P/Number..... | Thread |
|---------------|--------|
| CM77-12..... | 12 |
| CM77-14..... | 14 |
| CM77-16..... | 16 |
| CM77-18..... | 18 |
| CM77-20..... | 20 |
| CM77-22..... | 22 |
| CM77-24..... | 24 |

Plug JIC



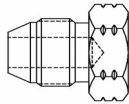
| P/Number..... | Thread |
|---------------|--------|
| C78-07..... | 7/16 |
| C78-08..... | 1/2 |
| C78-09..... | 9/16 |
| C78-12..... | 3/4 |
| C78-14..... | 7/8 |
| C78-17..... | 1-1/16 |
| C78-19..... | 1-3/16 |
| C78-21..... | 1-5/16 |
| C78-26..... | 1-5/8 |
| C78-30..... | 1-7/8 |
| C78-40..... | 2-1/2 |

Plug ORFS



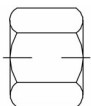
| P/Number..... | Thread |
|---------------|---------|
| F78-09..... | 9/16 |
| F78-11..... | 11/16 |
| F78-13..... | 13/16 |
| F78-16..... | 1 |
| F78-19..... | 1-3/16 |
| F78-23..... | 1-7/16 |
| F78-27..... | 1-11/16 |

Plug Metric Komatsu 1.5mm Pitch



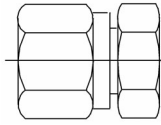
| P/Number..... | Thread |
|---------------|--------|
| CK78-12..... | 12 |
| CK78-14..... | 14 |
| CK78-16..... | 16 |
| CK78-18..... | 18 |
| CK78-20..... | 20 |
| CK78-22..... | 22 |
| CK78-24..... | 12 |
| CK78-30..... | 14 |
| CK78-33..... | 16 |
| CK78-36..... | 18 |
| CK78-42..... | 24 |

Cap Nut JIC



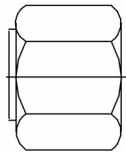
| P/Number..... | Thread |
|---------------|--------|
| C79-07..... | 7/16 |
| C79-08..... | 1/2 |
| C79-09..... | 9/16 |
| C79-12..... | 3/4 |
| C79-14..... | 7/8 |
| C79-17..... | 1-1/16 |
| C79-19..... | 1-3/16 |
| C79-21..... | 1-5/16 |
| C79-26..... | 1-5/8 |
| C79-30..... | 1-7/8 |
| C79-40..... | 2-1/2 |

Cap Nut BSPP



| P/Number..... | Thread |
|-----------------|--------|
| CBS79-02..... | 1/8 |
| CBS79-04..... | 1/4 |
| CBS79-06..... | 3/8 |
| CBS79-08..... | 1/2 |
| * CBS79-10..... | 5/8 |
| CBS79-12..... | 3/4 |
| CBS79-16..... | 1 |
| CBS79-20..... | 1-1/4 |
| CBS79-24..... | 1-1/2 |
| CBS79-32..... | 2 |

Cap Nut ORFS



| P/Number..... | Thread |
|---------------|---------|
| F79-09..... | 9/16 |
| F79-11..... | 11/16 |
| F79-13..... | 13/16 |
| F79-16..... | 1 |
| F79-19..... | 1-3/16 |
| F79-23..... | 1-7/16 |
| F79-27..... | 1-11/16 |

Cap Nut Metric Light



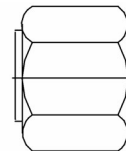
| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| CM79L-12..... | 6L | 12x1.5 |
| CM79L-14..... | 8L | 14x1.5 |
| CM79L-16..... | 10L | 16x1.5 |
| CM79L-18..... | 12L | 18x1.5 |
| CM79L-22..... | 15L | 22x1.5 |
| CM79L-26..... | 18L | 26x1.5 |
| CM79L-30..... | 22L | 30x2 |
| CM79L-36..... | 28L | 36x2 |
| CM79L-45..... | 35L | 45x2 |

Cap Nut Metric Heavy



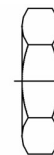
| P/Number | Tube OD..... | Thread |
|----------------|--------------|--------|
| CM79S-14..... | 6S | 14x1.5 |
| CM79S-16..... | 8S | 16x1.5 |
| CM79S-18..... | 10S | 18x1.5 |
| CM79S-20..... | 12S | 20x1.5 |
| CM79S-22..... | 14S | 22x1.5 |
| CM79S-24..... | 16S | 24x1.5 |
| CM79S-30..... | 20S | 30x2 |
| CM79S-36..... | 25S | 36x2 |
| CM79S-42..... | 30S | 42x2 |

Cap Nut Metric Komatsu 1.5mm Pitch



| P/Number | Thread |
|----------------|--------|
| CK79-12..... | 12 |
| CK79-14..... | 14 |
| CK79-16..... | 16 |
| CK79-18..... | 18 |
| CK79-20..... | 20 |
| CK79-22..... | 22 |
| CK79-24..... | 24 |
| CK79-30..... | 30 |
| CK79-33..... | 33 |
| CK79-36..... | 36 |
| CK79-42..... | 42 |

Bulkhead Nut JIC



| P/Number | Thread |
|----------------|--------|
| C80-07..... | 7/16 |
| C80-08..... | 1/2 |
| C80-09..... | 9/16 |
| C80-12..... | 3/4 |
| C80-14..... | 7/8 |
| C80-17..... | 1-1/16 |
| C80-19..... | 1-3/16 |
| C80-21..... | 1-5/16 |
| C80-26..... | 1-5/8 |
| C80-30..... | 1-7/8 |
| C80-40..... | 2-1/2 |

Section 4 Adaptors



*Manufactured To Order (minimum qtys may apply)

Bulkhead Nut BSPP



| P/Number..... | Thread |
|---------------|--------|
| CP80-02 | 1/8 |
| CP80-04 | 1/4 |
| CP80-06 | 3/8 |
| CP80-08 | 1/2 |
| CP80-12 | 3/4 |
| CP80-16 | 1 |
| CP80-20 | 1-1/4 |
| CP80-24 | 1-1/2 |
| CP80-32 | 2 |

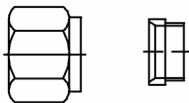
Bulkhead Nut ORFS



| P/Number..... | Thread |
|---------------|---------|
| F80-11 | 11/16 |
| F80-13 | 13/16 |
| F80-16 | 1 |
| F80-19 | 1-3/16 |
| F80-23 | 1-7/16 |
| F80-27 | 1-11/16 |

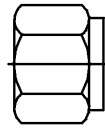
Tube Nut & Sleeve Assembly JIC

(Nut = C83-**N, Sleeve = C83-**S)



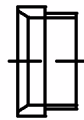
| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| C83-07 | 1/4 | 7/16 |
| C83-08 | 5/16 | 1/2 |
| C83-09 | 3/8 | 9/16 |
| C83-12 | 1/2 | 3/4 |
| C83-14 | 5/8 | 7/8 |
| C83-17 | 3/4 | 1-1/16 |
| C83-19 | 7/8 | 1-3/16 |
| C83-21 | 1 | 1-5/16 |
| C83-26 | 1-1/4 | 1-5/8 |
| C83-30 | 1-1/2 | 1-7/8 |

Tube Nut JIC



| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| C83-07N | 1/4 | 7/16 |
| C83-08N | 5/16 | 1/2 |
| C83-09N | 3/8 | 9/16 |
| C83-12N | 1/2 | 3/4 |
| C83-14N | 5/8 | 7/8 |
| C83-17N | 3/4 | 1-1/16 |
| C83-19N | 7/8 | 1-3/16 |
| C83-21N | 1 | 1-5/16 |
| C83-26N | 1-1/4 | 1-5/8 |
| C83-30N | 1-1/2 | 1-7/8 |
| C83-40N | 2 | 2-1/2 |

Tube Sleeve JIC



| P/Number..... | Tube OD..... | Thread |
|---------------|--------------|--------|
| C83-07S | 1/4 | 7/16 |
| C83-08S | 5/16 | 1/2 |
| C83-09S | 3/8 | 9/16 |
| C83-12S | 1/2 | 3/4 |
| C83-14S | 5/8 | 7/8 |
| C83-17S | 3/4 | 1-1/16 |
| C83-19S | 7/8 | 1-3/16 |
| C83-21S | 1 | 1-5/16 |
| C83-26S | 1-1/4 | 1-5/8 |
| C83-30S | 1-1/2 | 1-7/8 |
| C83-40S | 2 | 2-1/2 |

Tube Nut Metric Light



| P/Number..... | Tube OD..... | Thread |
|-----------------|--------------|--------|
| CM83L-12N | 6L | 12x1.5 |
| CM83L-14N | 8L | 14x1.5 |
| CM83L-16N | 10L | 16x1.5 |
| CM83L-18N | 12L | 18x1.5 |
| CM83L-22N | 15L | 22x1.5 |
| CM83L-26N | 18L | 26x1.5 |
| CM83L-30N | 22L | 30x2 |
| CM83L-36N | 28L | 36x2 |
| CM83L-45N | 35L | 45x2 |
| CM83L-52N | 42L | 52x2 |

Cutting Ring Metric Light



| P/Number | Tube OD..... | Thread |
|----------------|--------------|---------|
| CM83L-6R | 6L | M12 Nut |
| CM83L-8R | 8L | M14 Nut |
| CM83L-10R..... | 10L | M16 Nut |
| CM83L-12R..... | 12L | M18 Nut |
| CM83L-15R..... | 15L | M22 Nut |
| CM83L-18R..... | 18L | M26 Nut |
| CM83L-22R..... | 22L | M30 Nut |
| CM83L-28R..... | 28L | M36 Nut |
| CM83L-35R..... | 35L | M45 Nut |
| CM83L-42R..... | 42L | M52 Nut |

Tube Nut Metric Heavy



| P/Number | Tube OD..... | Thread |
|-----------------|--------------|--------|
| CM83S-14N | 6S | 14x1.5 |
| CM83S-16N | 8S | 16x1.5 |
| CM83S-18N | 10S | 18x1.5 |
| CM83S-20N | 12S | 20x1.5 |
| CM83S-22N | 14S | 22x1.5 |
| CM83S-24N | 16S | 24x1.5 |
| CM83S-30N | 20S | 30x2 |
| CM83S-36N | 25S | 36x2 |
| CM83S-42N | 30S | 42x2 |
| CM83S-52N | 38S | 52x2 |

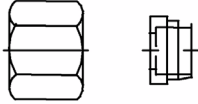
Cutting Ring Metric Heavy



| P/Number | Tube OD..... | Thread |
|----------------|--------------|---------|
| CM83S-6R | 6S | M14 Nut |
| CM83S-8R | 8S | M16 Nut |
| CM83S-10R..... | 10S | M18 Nut |
| CM83S-12R..... | 12S | M20 Nut |
| CM83S-14R..... | 15S | M22 Nut |
| CM83S-16R..... | 18S | M24 Nut |
| CM83S-20R..... | 22S | M30 Nut |
| CM83S-25R..... | 28S | M36 Nut |
| CM83S-30R..... | 35S | M42 Nut |
| CM83S-38R..... | 42S | M52 Nut |

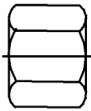
Tube Nut & Sleeve Assembly ORFS

(Nut = F83-**N, Sleeve = F83-**S)



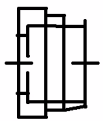
| P/Number | Tube OD | Thread |
|----------|---------|---------|
| F83-09 | 1/4 | 9/16 |
| F83-11 | 3/8 | 11/16 |
| F83-13 | 1/2 | 13/16 |
| F83-16 | 5/8 | 1 |
| F83-19 | 3/4 | 1-3/16 |
| F83-23 | 1 | 1-7/16 |
| F83-27 | 1-1/4 | 1-11/16 |

Tube Nut ORFS



| P/Number | Tube OD | Thread |
|-----------|---------|---------|
| F83-09N | 1/4 | 9/16 |
| F83-11N | 3/8 | 11/16 |
| F83-11NLB | 3/8 | 11/16 |
| F83-13N | 1/2 | 13/16 |
| F83-13NLB | 1/2 | 13/16 |
| F83-16N | 5/8 | 1 |
| F83-19N | 3/4 | 1-3/16 |
| F83-23N | 1 | 1-7/16 |
| F83-27N | 1-1/4 | 1-11/16 |

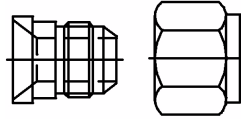
Tube Sleeve ORFS Braze On



| P/Number | Tube OD | Thread |
|----------|---------|---------|
| F83-09S | 1/4 | 9/16 |
| F83-11S | 3/8 | 11/16 |
| F83-13S | 1/2 | 13/16 |
| F83-16S | 5/8 | 1 |
| F83-19S | 3/4 | 1-3/16 |
| F83-23S | 1 | 1-7/16 |
| F83-27S | 1-1/4 | 1-11/16 |

Tube Reducer Assembly F/M JIC x JIC Style A

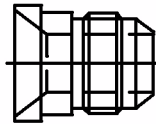
(Reducer = C84-****R, Nut = C83-**N)



| P/Number | Thread |
|----------|-----------------|
| C84-0907 | 9/16 x 7/16 |
| C84-1209 | 3/4 x 9/16 |
| C84-1409 | 7/8 x 9/16 |
| C84-1707 | 1-1/16 x 7/16 |
| C84-1709 | 1-1/16 x 9/16 |
| C84-1712 | 1-1/16 x 3/4 |
| C84-2112 | 1-5/16 x 3/4 |
| C84-2114 | 1-5/16 x 7/8 |
| C84-2117 | 1-5/16 x 1-1/16 |
| C84-2612 | 1-5/8 x 3/4 |
| C84-2617 | 1-5/8 x 1-1/16 |
| C84-2621 | 1-5/8 x 1-5/16 |
| C84-3021 | 1-7/8 x 1-5/16 |
| C84-3026 | 1-7/8 x 1-5/8 |
| C84-4030 | 2-1/2 x 1-7/8 |

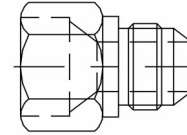
Tube Reducer JIC x JIC Style A

(Nut = C83-**N Required)



| P/Number | Thread |
|-------------|-----------------|
| C84-0907R | 9/16 x 7/16 |
| C84-1207R | 3/4 x 7/16 |
| C84-1209R | 3/4 x 9/16 |
| C84-1409R | 7/8 x 9/16 |
| C84-1707R | 1-1/16 x 7/16 |
| C84-1709R | 1-1/16 x 9/16 |
| C84-1712R | 1-1/16 x 3/4 |
| C84-2112R | 1-5/16 x 3/4 |
| C84-2114R | 1-5/16 x 7/8 |
| C84-2117R | 1-5/16 x 1-1/16 |
| C84-2612R | 1-5/8 x 3/4 |
| C84-2617R | 1-5/8 x 1-1/16 |
| C84-2621R | 1-5/8 x 1-5/16 |
| * C84-3017R | 1-7/8 x 1-1/16 |
| C84-3021R | 1-7/8 x 1-5/16 |
| C84-4030R | 2-1/2 x 1-7/8 |

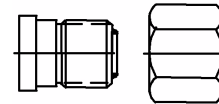
Tube Reducer Fixed F/M JIC x JIC Style B



| P/Number | Thread |
|-----------|---------------|
| C84-1207B | 3/4 x 7/16 |
| C84-1412B | 7/8 x 3/4 |
| C84-1714B | 1-1/16 x 7/8 |
| C84-3026B | 1-7/8 x 1-5/8 |
| C84-4030B | 2-1/2 x 1-7/8 |

Tube Reducer Assembly F/M ORFS x ORFS

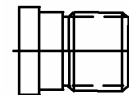
(Reducer = F84-****R, Nut = F83-**N)



| P/Number | Thread |
|----------|----------------|
| F84-1109 | 11/16 x 9/16 |
| F84-1309 | 13/16 x 9/16 |
| F84-1311 | 13/16 x 11/16 |
| F84-1613 | 1 x 13/16 |
| F84-1913 | 1-3/16 x 13/16 |

Tube Reducer F/M ORFS x ORFS

(Nut = F83-**N Required)



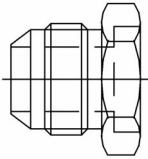
| P/Number | Thread |
|-------------|----------------|
| * F84-1109R | 11/16 x 9/16 |
| F84-1309R | 13/16 x 9/16 |
| * F84-1311R | 13/16 x 11/16 |
| F84-1613R | 1 x 13/16 |
| F84-1913R | 1-3/16 x 13/16 |

Section 4 Adaptors



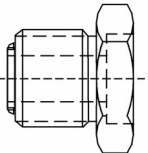
*Manufactured To Order (minimum qtys may apply)

Tubeweld Nipple JIC Male



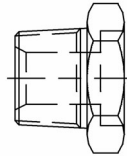
| P/Number..... | Thread | Tube |
|------------------|--------------|-------|
| C86-0704 | 7/16 | 1/4 |
| C86-0906 | 9/16 | 3/8 |
| C86-0908 | 9/16 | 1/2 |
| C86-1206 | 3/4 | 3/8 |
| C86-1208 | 3/4 | 1/2 |
| C86-1210 | 3/4 | 5/8 |
| C86-1212 | 3/4 | 3/4 |
| C86-1410 | 7/8 | 5/8 |
| C86-1412 | 7/8 | 3/4 |
| C86-1712 | 1-1/16 | 3/4 |
| C86-1714 | 1-1/16 | 7/8 |
| C86-1716 | 1-1/16 | 1 |
| C86-1720 | 1-1/16 | 1-1/4 |
| * C86-1914 | 1-3/16 | 7/8 |
| C86-2116 | 1-5/16 | 1 |
| C86-2120 | 1-5/16 | 1-1/4 |
| C86-2124 | 1-5/16 | 1-1/2 |
| C86-2620 | 1-5/8 | 1-1/4 |
| C86-2624 | 1-5/8 | 1-1/2 |
| C86-3024 | 1-7/8 | 1-1/2 |
| C86-4032 | 2-1/2 | 2 |

Tubeweld Nipple ORFS



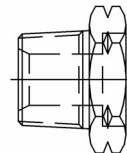
| P/Number..... | Thread | Tube |
|------------------|---------------|-------|
| * F86-0904 | 9/16 | 1/4 |
| F86-0906 | 9/16 | 3/8 |
| * F86-1106 | 11/16 | 3/8 |
| * F86-1308 | 13/16 | 1/2 |
| * F86-1610 | 1 | 5/8 |
| * F86-1912 | 1-3/16 | 3/4 |
| * F86-2316 | 1-7/16 | 1 |
| * F86-2720 | 1-11/16 | 1-1/4 |

Tubeweld Nipple BSPT Male



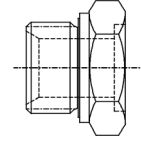
| P/Number..... | Thread | Tube |
|-------------------|--------------|-------|
| CB86-0404 | 1/4 | 1/4 |
| CB86-0406 | 1/4 | 3/8 |
| * CB86-0604 | 3/8 | 1/4 |
| CB86-0606 | 3/8 | 3/8 |
| CB86-0608 | 3/8 | 1/2 |
| CB86-0610 | 3/8 | 5/8 |
| CB86-0806 | 1/2 | 3/8 |
| CB86-0808 | 1/2 | 1/2 |
| CB86-0810 | 1/2 | 5/8 |
| CB86-0812 | 1/2 | 3/4 |
| CB86-0816 | 1/2 | 1 |
| CB86-1212 | 3/4 | 3/4 |
| CB86-1216 | 3/4 | 1 |
| * CB86-1220 | 3/4 | 1-1/4 |
| CB86-1612 | 1 | 3/4 |
| CB86-1616 | 1 | 1 |
| CB86-1620 | 1 | 1-1/4 |
| CB86-1624 | 1 | 1-1/2 |
| CB86-2016 | 1-1/4 | 1 |
| CB86-2020 | 1-1/4 | 1-1/4 |
| CB86-2024 | 1-1/4 | 1-1/2 |
| CB86-2420 | 1-1/2 | 1-1/4 |
| CB86-2424 | 1-1/2 | 1-1/2 |
| CB86-3232 | 2 | 2 |

Tubeweld Nipple NPTF Male



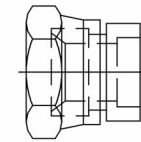
| P/Number..... | Thread | Tube |
|-------------------|--------------|------|
| * CN86-0406 | 1/4 | 3/8 |
| CN86-0606 | 3/8 | 3/8 |
| * CN86-0608 | 3/8 | 1/2 |
| * CN86-1212 | 3/4 | 3/4 |

Tubeweld Nipple BSPF Male



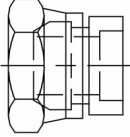
| P/Number | Thread | Tube |
|-------------------|--------------|-------|
| CP86-0406 | 1/4 | 3/8 |
| * CP86-0608 | 3/8 | 1/2 |
| * CP86-0810 | 1/2 | 5/8 |
| CP86-1216 | 3/4 | 1 |
| CP86-1620 | 1 | 1-1/4 |
| CP86-2024 | 1-1/4 | 1-1/2 |

Tubeweld Union JIC Female



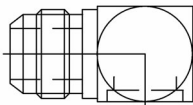
| P/Number | Thread | Tube |
|-------------------|--------------|-------|
| C87-0704 | 7/16 | 1/4 |
| C87-0904 | 9/16 | 1/4 |
| C87-0906 | 9/16 | 3/8 |
| C87-1206 | 3/4 | 3/8 |
| C87-1208 | 3/4 | 1/2 |
| C87-1210 | 3/4 | 5/8 |
| C87-1408 | 7/8 | 1/2 |
| C87-1410 | 7/8 | 5/8 |
| C87-1412 | 7/8 | 3/4 |
| C87-1712 | 1-1/16 | 3/4 |
| C87-1716 | 1-1/16 | 1 |
| * C87H-1716 | 1-1/16 | 1 |
| C87-2116 | 1-5/16 | 1 |
| C87-2120 | 1-5/16 | 1-1/4 |
| C87-2620 | 1-5/8 | 1-1/4 |
| C87-2624 | 1-5/8 | 1-1/2 |
| C87-3024 | 1-7/8 | 1-1/2 |
| C87-4032 | 2-1/2 | 2 |

Tubeweld Union BSPP Female



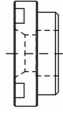
| P/Number | Thread | Tube |
|-------------|--------|-------|
| CB87-0404 | 1/4 | 1/4 |
| * CB87-0406 | 1/4 | 3/8 |
| CB87-0606 | 3/8 | 3/8 |
| CB87-0808 | 1/2 | 1/2 |
| CB87-0810 | 1/2 | 5/8 |
| CB87-0812 | 1/2 | 3/4 |
| CB87-1212 | 3/4 | 3/4 |
| CB87-1616 | 1 | 1 |
| CB87-1620 | 1 | 1-1/4 |
| CB87-2016 | 1-1/4 | 1 |
| CB87-2020 | 1-1/4 | 1-1/4 |
| * CB87-2424 | 1-1/2 | 1-1/2 |

Tubeweld 90 deg Elbow JIC Male



| P/Number | Thread | Tube |
|------------|--------|-------|
| C88-0704 | 7/16 | 1/4 |
| C88-0906 | 9/16 | 3/8 |
| C88-0908 | 9/16 | 1/2 |
| * C88-1206 | 3/4 | 3/8 |
| C88-1208 | 3/4 | 1/2 |
| C88-1210 | 3/4 | 5/8 |
| * C88-1212 | 3/4 | 3/4 |
| C88-1410 | 7/8 | 5/8 |
| * C88-1712 | 1-1/16 | 3/4 |
| * C88-1714 | 1-1/16 | 7/8 |
| * C88-2116 | 1-5/16 | 1 |
| * C88-2120 | 1-5/16 | 1-1/4 |
| * C88-2620 | 1-5/8 | 1-1/4 |

Tubeweld Flange SAE O'Ring Code 61 (3000 psi)



| P/Number | Flange | Tube |
|------------|--------|-------|
| C92-0808 | 1/2 | 1/2 |
| C92-0810 | 1/2 | 5/8 |
| * C92-1208 | 3/4 | 1/2 |
| * C92-1210 | 3/4 | 5/8 |
| C92-1212 | 3/4 | 3/4 |
| C92-1216 | 3/4 | 1 |
| * C92-1608 | 1 | 1/2 |
| * C92-1610 | 1 | 5/8 |
| C92-1612 | 1 | 3/4 |
| C92-1616 | 1 | 1 |
| C92-1620 | 1 | 1-1/4 |
| * C92-2012 | 1-1/4 | 3/4 |
| * C92-2016 | 1-1/4 | 1 |
| C92-2020 | 1-1/4 | 1-1/4 |
| C92-2024 | 1-1/4 | 1-1/2 |
| C92-2416 | 1-1/2 | 1 |
| C92-2420 | 1-1/2 | 1-1/4 |
| C92-2424 | 1-1/2 | 1-1/2 |
| * C92-2432 | 1-1/2 | 2 |
| C92-3220 | 2 | 1-1/4 |
| C92-3224 | 2 | 1-1/2 |
| C92-3232 | 2 | 2 |
| * C92-4032 | 2-1/2 | 2 |
| C92-4040 | 2-1/2 | 2-1/2 |

90 Duro 'O' Ring supplied

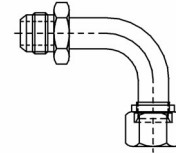
Tubeweld Flange SAE O'Ring Code 62 (6000 psi)



| P/Number | Flange | Tube |
|-------------|--------|-------|
| * C92H-0808 | 1/2 | 1/2 |
| * C92H-0812 | 1/2 | 3/4 |
| C92H-1212 | 3/4 | 3/4 |
| * C92H-1216 | 3/4 | 1 |
| * C92H-1612 | 1 | 3/4 |
| C92H-1616 | 1 | 1 |
| C92H-1620 | 1 | 1-1/4 |
| * C92H-2016 | 1-1/4 | 1 |
| C92H-2020 | 1-1/4 | 1-1/4 |
| C92H-2024 | 1-1/4 | 1-1/2 |
| C92H-2420 | 1-1/2 | 1-1/4 |
| C92H-2424 | 1-1/2 | 1-1/2 |
| C92H-3224 | 2 | 1-1/2 |
| C92H-3232 | 2 | 2 |

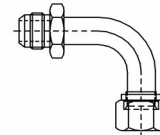
90 Duro 'O' Ring supplied

Short 90 deg. Tube JIC x JIC M/F SAE 100R2 Working Pressure



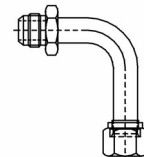
| P/Number | Thread |
|----------|-----------------|
| C93-0707 | 7/16 x 7/16 |
| C93-0808 | 1/2 x 1/2 |
| C93-0909 | 9/16 x 9/16 |
| C93-1212 | 3/4 x 3/4 |
| C93-1414 | 7/8 x 7/8 |
| C93-1714 | 1-1/16 x 7/8 |
| C93-1717 | 1-1/16 x 1-1/16 |
| C93-2121 | 1-5/16 x 1-5/16 |
| C93-2626 | 1-5/8 x 1-5/8 |
| C93-3030 | 1-7/8 x 1-7/8 |
| C93-4040 | 2-1/2 x 2-1/2 |

Short 90 deg. Tube M/F JIC x JIC SAE 100R12 Working Pressure



| P/Number | Thread |
|-----------|-----------------|
| C93H-1212 | 3/4 x 3/4 |
| C93H-1717 | 1-1/16 x 1-1/16 |
| C93H-2121 | 1-5/16 x 1-5/16 |
| C93H-2626 | 1-5/8 x 1-5/8 |
| C93H-3030 | 1-7/8 x 1-7/8 |

Long 90 deg. Tube M/F JIC x JIC SAE 100R2 Working Pressure



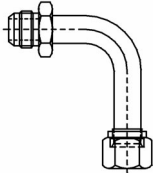
| P/Number | Thread |
|----------|-----------------|
| C94-0707 | 7/16 x 7/16 |
| C94-0808 | 1/2 x 1/2 |
| C94-0909 | 9/16 x 9/16 |
| C94-1212 | 3/4 x 3/4 |
| C94-1414 | 7/8 x 7/8 |
| C94-1717 | 1-1/16 x 1-1/16 |
| C94-2121 | 1-5/16 x 1-5/16 |
| C94-2626 | 1-5/8 x 1-5/8 |
| C94-3030 | 1-7/8 x 1-7/8 |

Section 4 Adaptors



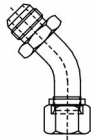
*Manufactured To Order (minimum qtys may apply)

Long 90 deg. Tube M/F JIC x JIC SAE 100R12 Working Pressure



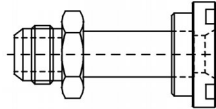
| P/Number | Thread |
|-----------|-----------------|
| C94H-1212 | 3/4 x 3/4 |
| C94H-1717 | 1-1/16 x 1-1/16 |
| C94H-2121 | 1-5/16 x 1-5/16 |
| C94H-2626 | 1-5/8 x 1-5/8 |
| C94H-3030 | 1-7/8 x 1-7/8 |

Short 45 deg. Tube M/F JIC x JIC SAE 100R2 Working Pressure



| P/Number | Thread |
|------------|-----------------|
| C95-0707 | 7/16 x 7/16 |
| * C95-0808 | 1/2 x 1/2 |
| C95-0909 | 9/16 x 9/16 |
| C95-1212 | 3/4 x 3/4 |
| C95-1414 | 7/8 x 7/8 |
| C95-1717 | 1-1/16 x 1-1/16 |
| C95-2121 | 1-5/16 x 1-5/16 |
| C95-2626 | 1-5/8 x 1-5/8 |

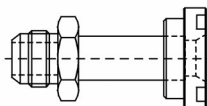
Straight Flangehead JIC Male x SAE (Code 61) SAE 100R2 Working Pressure



| P/Number | Thread | Flange |
|-----------|--------|--------|
| C96-1208 | 3/4 | 1/2 |
| C96-1212 | 3/4 | 3/4 |
| C96-1410K | 7/8 | 5/8 |
| C96-1412 | 7/8 | 3/4 |
| C96-1712 | 1-1/16 | 3/4 |
| C96-1716 | 1-1/16 | 1 |
| C96-1720 | 1-1/6 | 1-1/4 |
| C96-2116 | 1-5/16 | 1 |
| C96-2120 | 1-5/16 | 1-1/4 |
| C96-2124 | 1-5/16 | 1-1/2 |
| C96-2620 | 1-5/8 | 1-1/4 |
| C96-2624 | 1-5/8 | 1-1/2 |
| C96-2632 | 1-5/8 | 2 |
| C96-3024 | 1-7/8 | 1-1/2 |
| C96-3032 | 1-7/8 | 2 |
| C96-4032 | 2-1/2 | 2 |

90 Duro 'O' Ring supplied

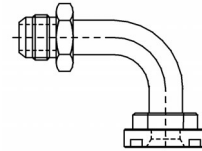
Straight Flangehead JIC Male x SAE (Code 62) SAE 100R12 Working Pressure



| P/Number | Thread | Flange |
|-----------|--------|--------|
| C96H-1712 | 1-1/16 | 3/4 |
| C96H-1716 | 1-1/16 | 1 |
| C96H-2116 | 1-5/16 | 1 |
| C96H-2120 | 1-5/16 | 1-1/4 |
| C96H-2620 | 1-5/8 | 1-1/4 |
| C96H-2624 | 1-5/8 | 1-1/2 |
| C96H-3020 | 1-7/8 | 1-1/4 |
| C96H-3024 | 1-7/8 | 1-1/2 |

90 Duro 'O' Ring supplied

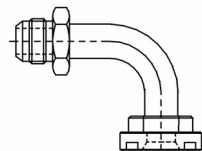
90 deg. Flangehead JIC Male x SAE (Code 61) SAE 100R2 Working Pressure



| P/Number | Thread | Flange |
|-------------------|--------|--------|
| C97-1208 | 3/4 | 1/2 |
| C97-1212 | 3/4 | 3/4 |
| C97-1410K | 7/8 | 5/8 |
| C97-1412 | 7/8 | 3/4 |
| C97-1416 | 7/8 | 1 |
| C97-1712 | 1-1/16 | 3/4 |
| C97-1716 | 1-1/16 | 1 |
| C97-1720 | 1-1/16 | 1-1/4 |
| * C97-1724 | 1-1/16 | 1-1/2 |
| C97-2116 | 1-5/16 | 1 |
| C97-2120 | 1-5/16 | 1-1/4 |
| C97-2124 | 1-5/16 | 1-1/2 |
| C97-2616 | 1-5/8 | 1 |
| C97-2620 | 1-5/8 | 1-1/4 |
| C97-2624 | 1-5/8 | 1-1/2 |
| C97-2632 | 1-5/8 | 2 |
| * C97-3020 | 1-7/8 | 1-1/4 |
| C97-3024 | 1-7/8 | 1-1/2 |
| C97-4032 | 2-1/2 | 2 |
| * C97-4040SUCTION | 2-1/2 | 2-1/2 |
| * C97-4048SUCTION | 2-1/2 | 3 |

90 Duro 'O' Ring supplied

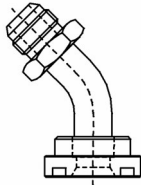
90 deg. Flangehead JIC Male x SAE (Code 62) SAE 100R12 Working Pressure



| P/Number | Thread | Flange |
|-------------|--------|--------|
| C97H-1712 | 1-1/16 | 3/4 |
| C97H-1716 | 1-1/16 | 1 |
| * C97H-1720 | 1-1/16 | 1-1/4 |
| C97H-2112 | 1-5/16 | 3/4 |
| C97H-2116 | 1-5/16 | 1 |
| C97H-2120 | 1-5/16 | 1-1/4 |
| C97H-2620 | 1-5/8 | 1-1/4 |
| C97H-2624 | 1-5/8 | 1-1/2 |
| * C97H-3020 | 1-7/8 | 1-1/4 |
| C97H-3024 | 1-7/8 | 1-1/2 |
| * C97H-4024 | 2-1/2 | 1-1/2 |

90 Duro 'O' Ring supplied

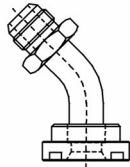
**45 deg. Flangehead
JIC Male x SAE
(Code 61)
SAE 100R2
Working Pressure**



| P/Number | Thread | Flange |
|------------|--------|--------|
| C98-1208 | 3/4 | 1/2 |
| * C98-1212 | 3/4 | 3/4 |
| C98-1712 | 1-1/16 | 3/4 |
| C98-1716 | 1-1/16 | 1 |
| C98-2116 | 1-5/16 | 1 |
| C98-2120 | 1-5/16 | 1-1/4 |
| C98-2124 | 1-5/16 | 1-1/2 |
| C98-2620 | 1-5/8 | 1-1/4 |
| C98-2624 | 1-5/8 | 1-1/2 |
| * C98-3024 | 1-7/8 | 1-1/2 |

90 Duro 'O' Ring supplied

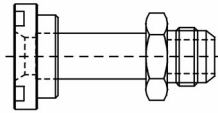
**45 deg. Flangehead
JIC Male x SAE
(Code 62)
SAE 100R12
Working Pressure**



| P/Number | Thread | Flange |
|-----------|--------|--------|
| C98H-1408 | 7/8 | 1/2 |
| C98H-1712 | 1-1/16 | 3/4 |
| C98H-2116 | 1-5/16 | 1 |
| C98H-2620 | 1-5/8 | 1-1/4 |
| C98H-2624 | 1-5/8 | 1-1/2 |

90 Duro 'O' Ring supplied

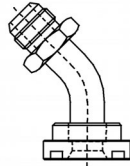
**Straight Flangehead
JIC Male x SAE
(Code 62)
6000 psi
Working Pressure
One Piece Construction**



| P/Number | Thread | Flange |
|--------------|--------|--------|
| 12FLH6K-12MJ | 1-1/16 | 3/4 |
| 16FLH6K-12MJ | 1-1/16 | 1 |
| 16FLH6K-16MJ | 1-5/16 | 1 |
| 16FLH6K-20MJ | 1-5/8 | 1 |
| 20FLH6K-16MJ | 1-5/16 | 1-1/4 |
| 20FLH6K-20MJ | 1-5/8 | 1-1/4 |
| 24FLH6K-20MJ | 1-5/8 | 1-1/2 |
| 24FLH6K-24MJ | 1-7/8 | 1-1/2 |

90 Duro 'O' Ring **NOT** included

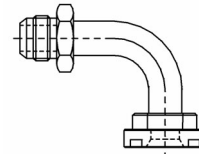
**45-deg Flangehead
JIC Male x SAE
(Code 62)
6000 psi
Working Pressure
One Piece Construction**



| P/Number | Thread | Flange |
|----------------|--------|--------|
| 12FLH6K-12MJ45 | 1-1/16 | 3/4 |
| 16FLH6K-16MJ45 | 1-5/16 | 1 |
| 20FLH6K-20MJ45 | 1-5/8 | 1-1/4 |

90 Duro 'O' Ring **NOT** included

**90-deg Flangehead
JIC Male x SAE
(Code 62)
6000 psi
Working Pressure
One Piece Construction**



| P/Number | Thread | Flange |
|----------------|--------|--------|
| 12FLH6K-12MJ90 | 1-1/16 | 3/4 |
| 12FLH6K-16MJ90 | 1-5/16 | 3/4 |
| 16FLH6K-12MJ90 | 1-1/16 | 1 |
| 16FLH6K-16MJ90 | 1-5/16 | 1 |
| 16FLH6K-20MJ90 | 1-5/8 | 1 |
| 20FLH6K-16MJ90 | 1-5/16 | 1-1/4 |
| 20FLH6K-20MJ90 | 1-5/8 | 1-1/4 |
| 24FLH6K-20MJ90 | 1-5/8 | 1-1/2 |

90 Duro 'O' Ring **NOT** included

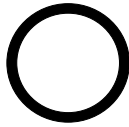
**FLANGE CLAMPS,
FLANGE BLOCKS AND
PLUGS NOW IN
SECTION 5, PAGE 5.16**

Section 4 Adaptors



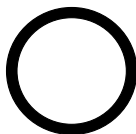
*Manufactured To Order (minimum qtys may apply)

'O' Ring to suit UNO Thread



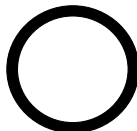
| P/Number..... | Size |
|---------------|--------|
| R01-06..... | 3/8 |
| R01-07..... | 7/16 |
| R01-08..... | 1/2 |
| R01-09..... | 9/16 |
| R01-12..... | 3/4 |
| R01-14..... | 7/8 |
| R01-17..... | 1-1/16 |
| R01-19..... | 1-3/16 |
| R01-21..... | 1-5/16 |
| R01-26..... | 1-5/8 |
| R01-30..... | 1-7/8 |
| R01-40..... | 2-1/2 |

'O' Ring to Suit SAE Flange



| P/Number..... | Size |
|---------------|-------|
| R02-08..... | 1/2 |
| R02-12..... | 3/4 |
| R02-16..... | 1 |
| R02-20..... | 1-1/4 |
| R02-24..... | 1-1/2 |
| R02-32..... | 2 |
| R02-40..... | 2-1/2 |
| R02-48..... | 3 |

'O' Ring to Suit BSPP Threads



| P/Number..... | Size |
|-------------------|-------|
| R03-02..... | 1/8 |
| R03-04 GAUGE..... | 1/4 |
| R03-04..... | 1/4 |
| R03-06..... | 3/8 |
| R03-08..... | 1/2 |
| R03-12..... | 3/4 |
| R03-16..... | 1 |
| R03-20..... | 1-1/4 |
| R03-24..... | 1-1/2 |

Dowty Seal BSPP Thread DIN Std



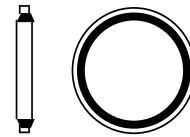
| P/Number..... | Size |
|---------------|-------|
| R04-02..... | 1/8 |
| R04-04..... | 1/4 |
| R04-06..... | 3/8 |
| R04-08..... | 1/2 |
| R04-12..... | 3/4 |
| R04-16..... | 1 |
| R04-20..... | 1-1/4 |

Dowty Seal BSPP Thread B.S. Std



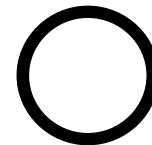
| P/Number..... | Size |
|---------------|-------|
| R04B-02..... | 1/8 |
| R04B-04..... | 1/4 |
| R04B-06..... | 3/8 |
| R04B-08..... | 1/2 |
| R04B-12..... | 3/4 |
| R04B-16..... | 1 |
| R04B-20..... | 1-1/4 |
| R04B-24..... | 1-1/2 |
| R04B-32..... | 2 |
| R04B-40..... | 2-1/2 |

Dowty Seal Metric Thread



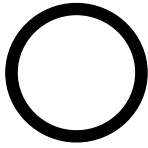
| P/Number..... | Size |
|---------------|------|
| R04M-08..... | 8 |
| R04M-10..... | 10 |
| R04M-12..... | 12 |
| R04M-14..... | 14 |
| R04M-16..... | 16 |
| R04M-18..... | 18 |
| R04M-20..... | 20 |
| R04M-22..... | 22 |
| R04M-24..... | 24 |
| R04M-26..... | 26 |
| R04M-27..... | 27 |
| R04M-33..... | 33 |
| R04M-42..... | 42 |
| R04M-48..... | 48 |

'O' Ring to Suit ORFS Fittings



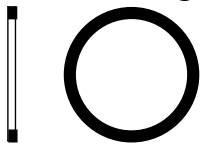
| P/Number..... | Size |
|---------------|---------|
| R06-09..... | 9/16 |
| R06-11..... | 11/16 |
| R06-13..... | 13/16 |
| R06-16..... | 1 |
| R06-19..... | 1-3/16 |
| R06-23..... | 1-7/16 |
| R06-27..... | 1-11/16 |
| R06-32..... | 2 |

'O' Ring to Suit DKO Fittings



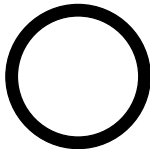
| P/Number..... | Size |
|---------------|------|
| R08-14..... | M14 |
| R08-16..... | M16 |
| R08-18..... | M18 |
| R08-20..... | M20 |
| R08-22..... | M22 |
| R08-24..... | M24 |
| R08-30..... | M30 |
| R08-36..... | M36 |
| R08-42..... | M42 |
| R08-52..... | M52 |

Retaining Ring For BSPP 'O' Ring



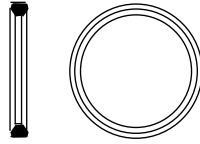
| P/Number..... | Size |
|---------------|-------|
| R13-02..... | 1/8 |
| R13-04..... | 1/4 |
| R13-06..... | 3/8 |
| R13-08..... | 1/2 |
| R13-12..... | 3/4 |
| R13-16..... | 1 |
| R13-20..... | 1-1/4 |
| R13-24..... | 1-1/2 |

'O' Ring Encapsulated to Suit BSPP Threads



| P/Number..... | Size |
|---------------|-------|
| R19-02..... | 1/8 |
| R19-04..... | 1/4 |
| R19-06..... | 3/8 |
| R19-08..... | 1/2 |
| R19-12..... | 3/4 |
| R19-16..... | 1 |
| R19-20..... | 1-1/4 |
| R19-24..... | 1-1/2 |

Metric & BSPP Seal Rings



| P/Number..... | Size |
|----------------|-------|
| DKR-1/4..... | 1/4 |
| DKR-3/8..... | 3/8 |
| DKR-1/2..... | 1/2 |
| DKR-3/4..... | 3/4 |
| DKR-1..... | 1 |
| DKR-1-1/4..... | 1-1/4 |
| DKR-1-1/2..... | 1-1/2 |
| DKR-M12..... | 12 |
| DKR-M14..... | 14 |
| DKR-M16..... | 16 |
| DKR-M18..... | 18 |
| DKR-M22..... | 22 |

Section 4 Adaptors



*Manufactured To Order (minimum qtys may apply)

Southcott O-ring Kit UNO, ORFS, C61 & C62



P/Number.....
SORKIT.....

Southcott O-ring Kit BSPP O-ring & Retainer



P/Number.....
SORKIT-P.....

Southcott Bonded Seal Kit Metric



P/Number.....
SORKIT-DM.....

Southcott Bonded Seal Kit BSPP



P/Number.....
SORKIT-DP.....

Southcott Encapsulated Seal Kit BSPP



P/Number.....
SORKIT-EP.....

Southcott O-Ring Kit Flanges



P/Number.....
SORKIT-FLG.....

Southcott O-Ring Kit ORFS



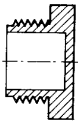
P/Number.....
SORKIT-ORFS.....

Southcott O-Ring Kit UNO



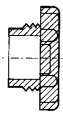
P/Number.....
SORKIT-UNO.....

PLUG PLASTIC JIC/SAE/ORFS



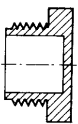
| P/Number..... | Thread |
|---------------|--------|
| PPJ-07..... | 7/16 |
| PPJ-08..... | 1/2 |
| PPJ-09..... | 9/16 |
| PPJ-10..... | 5/8 |
| PPJ-11..... | 11/16 |
| PPJ-12..... | 3/4 |
| PPJ-13..... | 13/16 |
| PPJ-14..... | 7/8 |
| PPJ-16..... | 1 |
| PPJ-17..... | 1-1/16 |
| PPJ-19..... | 1-3/16 |
| PPJ-21..... | 1-5/16 |
| PPJ-23..... | 1-7/16 |
| PPJ-26..... | 1-5/8 |
| PPJ-30..... | 1-7/8 |
| PPJ-40..... | 2-1/2 |

PLUG PLASTIC BSP/NPT



| P/Number..... | Thread |
|---------------|--------|
| PPB-02..... | 1/8 |
| PPB-04..... | 1/4 |
| PPB-06..... | 3/8 |
| PPB-08..... | 1/2 |
| PPB-10..... | 5/8 |
| PPB-12..... | 3/4 |
| PPB-16..... | 1 |
| PPB-20..... | 1-1/4 |
| PPB-24..... | 1-1/2 |
| PPB-32..... | 2 |

PLUG PLASTIC METRIC



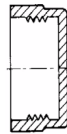
| P/Number..... | Thread |
|---------------|----------|
| PPM-12..... | 12 x 1.5 |
| PPM-14..... | 14 x 1.5 |
| PPM-16..... | 16 x 1.5 |
| PPM-20..... | 20 x 1.5 |
| PPM-22..... | 22 x 1.5 |
| PPM-24..... | 24 x 1.5 |
| PPM-26..... | 26 x 1.5 |
| PPM-30..... | 30 x 2 |
| PPM-33..... | 33 x 2 |
| PPM-36..... | 36 x 2 |
| PPM-42..... | 42 x 2 |
| PPM-52..... | 52 x 2 |

CAP PLASTIC JIC/SAE/ORFS



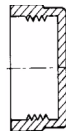
| P/Number..... | Thread |
|---------------|--------|
| CPJ-07..... | 7/16 |
| CPJ-08..... | 1/2 |
| CPJ-09..... | 9/16 |
| CPJ-10..... | 5/8 |
| CPJ-11..... | 11/16 |
| CPJ-12..... | 3/4 |
| CPJ-13..... | 13/16 |
| CPJ-14..... | 7/8 |
| CPJ-16..... | 1 |
| CPJ-17..... | 1-1/16 |
| CPJ-19..... | 1-3/16 |
| CPJ-21..... | 1-5/16 |
| CPJ-23..... | 1-7/16 |
| CPJ-26..... | 1-5/8 |
| CPJ-30..... | 1-7/8 |

CAP PLASTIC BSP/NPT



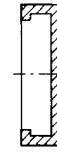
| P/Number..... | Thread |
|---------------|--------|
| CPB-02..... | 1/8 |
| CPB-04..... | 1/4 |
| CPB-06..... | 3/8 |
| CPB-08..... | 1/2 |
| CPB-10..... | 5/8 |
| CPB-12..... | 3/4 |
| CPB-16..... | 1 |
| CPB-20..... | 1-1/4 |
| CPB-24..... | 1-1/2 |
| CPB-32..... | 2 |

CAP PLASTIC METRIC



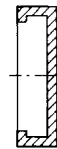
| P/Number..... | Thread |
|---------------|----------|
| CPM-08..... | 8 x 1.0 |
| CPM-10..... | 10 x 1.0 |
| CPM-12..... | 12 x 1.5 |
| CPM-14..... | 14 x 1.5 |
| CPM-16..... | 16 x 1.5 |
| CPM-20..... | 20 x 1.5 |
| CPM-22..... | 22 x 1.5 |
| CPM-24..... | 24 x 1.5 |
| CPM-26..... | 26 x 1.5 |
| CPM-30..... | 30 x 2 |
| CPM-33..... | 33 x 2 |
| CPM-36..... | 36 x 2 |
| CPM-42..... | 42 x 2 |
| CPM-52..... | 52 x 2 |

CAP PLASTIC FLANGE CODE 61



| P/Number..... | Thread |
|---------------|--------|
| CPF61-08..... | 1/2 |
| CPF61-12..... | 3/4 |
| CPF61-16..... | 1 |
| CPF61-20..... | 1-1/4 |
| CPF61-24..... | 1-1/2 |
| CPF61-32..... | 2 |

CAP PLASTIC FLANGE CODE 62



| P/Number..... | Thread |
|---------------|--------|
| CPF62-08..... | 1/2 |
| CPF62-12..... | 3/4 |
| CPF62-16..... | 1 |
| CPF62-20..... | 1-1/4 |
| CPF62-24..... | 1-1/2 |
| CPF62-32..... | 2 |

Section 4 Adaptors



*Manufactured To Order (minimum qtys may apply)

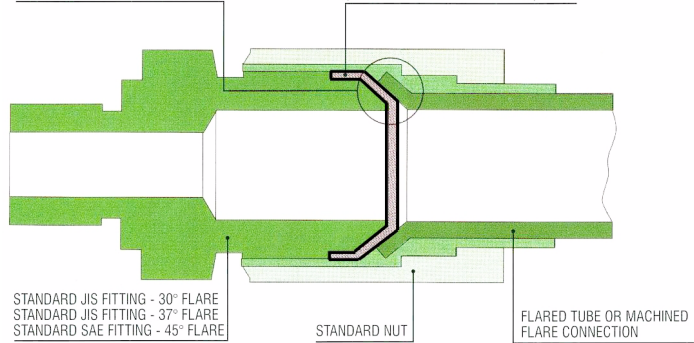


flaretite development

COMBINATION OF **flaretite** SEAL, LOCTITE SEALANT & LOCKING RIBS CREATE A LEAK FREE JOINT

key design features

flaretite SEAL WITH LOCTITE SEALANT AUST. REG. 137165 (GLOBALLY REGISTERED DESIGN)



NFPA and ISO Approve use of Seals in Flared Fittings

The most recent revision of the National Fluid Power Association's (NFPA) standard relating to "Hydraulic Fluid Power systems - Methods For Preventing External Leakage" now recommends the use of compliant seals to address the universal weeping problem of JIC flared fittings.

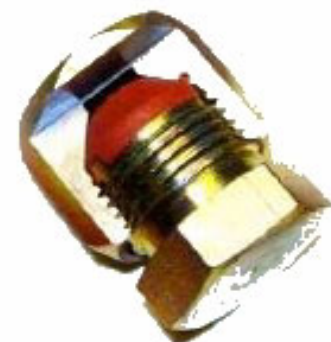
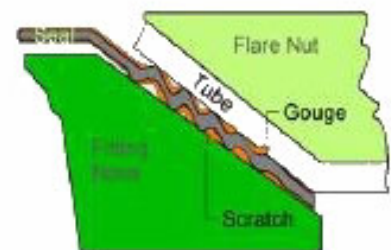
NFPA now joins the International Standards Organization (ISO) as the two leading standards organizations in the world both recommending seals be fitted to JIC type flared joints to address both environmental and OH&S issues.

Flaretite Seals have a proven history of positive leak-free performance on the most difficult and challenging global applications, such as the M1 Abrams Tanks and the latest M-777 Howitzer, where severe shock loads and vibration saw JIC flared fitting joints fail on commissioning.

In addition to these and other US Army and Navy applications Flaretite seals are fitted by manufacturers such as Wind Generator Drives and Kanga Loaders in Australia on their ride-on mini loaders to eliminate costly rework and customer compliant warranty issues.

Flaretite Seals are a metal stamping with multiple concentric rings. They are impregnated with a special Loctite coating and when inserted into a flared fitting joint the concentric rings form multiple seals down the face of the flare whilst the loctite coating fills minor fitting face imperfections providing a positive leak free seal solution.

Flaretite Seals are available in 304 stainless for 37 degree JIC standard Hydraulic system use and 316 stainless for marine applications. They are also available in 30 degree JIS, 45 degree (SAE J512 Automotive) and 45 degree (SAE J513) in copper for gas and refrigeration use.



Flaretite Seals

Seals the mating faces of any standard JIC/SAE/JIS flare joint

| 304 Standard | 316 Stainless | JIC Thread Size | Pack Qty. |
|--------------------------|--------------------------|-----------------|-----------|
| Individual Seal Part No. | Individual Seal Part No. | | |
| IP-37FT04-304-SOR | IP-37FT04-316-SGR | 7/16" | 1 |
| IP-37FT06-304-SOR | IP-37FT06-316-SGR | 9/16" | 1 |
| IP-37FT08-304-SOR | IP-37FT08-316-SGR | 3/4" | 1 |
| IP-37FT10-304-SOR | IP-37FT10-316-SGR | 7/8" | 1 |
| IP-37FT12-304-SOR | IP-37FT12-316-SGR | 1-1/16" | 1 |
| IP-37FT16-304-SOR | IP-37FT16-316-SGR | 1-5/16" | 1 |
| IP-37FT20-304-SOR | IP-37FT20-316-SGR | 1-5/8" | 1 |
| | IP-37FT24-316-SGR | 1-7/8" | 1 |
| | IP-37FT32-316-SGR | 2-1/2" | 1 |

| Standard Pack Part No. | Standard Pack Part No. | JIC Thread Size | Pack Qty. |
|------------------------|------------------------|-----------------|-----------|
| BP-37FT04-304-SOR | BP-37FT04-316-SGR | 7/16" | 20 |
| BP-37FT06-304-SOR | BP-37FT06-316-SGR | 9/16" | 20 |
| BP-37FT08-304-SOR | BP-37FT08-316-SGR | 3/4" | 20 |
| BP-37FT10-304-SOR | BP-37FT10-316-SGR | 7/8" | 20 |
| BP-37FT12-304-SOR | BP-37FT12-316-SGR | 1-1/16" | 20 |
| BP-37FT16-304-SOR | BP-37FT16-316-SGR | 1-5/16" | 20 |
| BP-37FT20-304-SOR | BP-37FT20-316-SGR | 1-5/8" | 20 |
| | BP-37FT24-316-SGR | 1-7/8" | 10 |

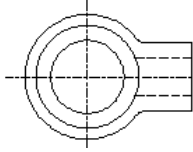
| Bulk Pack | Bulk Pack | JIC Thread Size | Pack Qty. |
|----------------------|-------------------|---|------------------------|
| QT-37FT04-304-SOR | QT-37FT04-316-SGR | 7/16" | 100 |
| QT-37FT06-304-SOR | QT-37FT06-316-SGR | 9/16" | 100 |
| QT-37FT08-304-SOR | QT-37FT08-316-SGR | 3/4" | 100 |
| QT-37FT10-304-SOR | QT-37FT10-316-SGR | 7/8" | 100 |
| QT-37FT12-304-SOR | QT-37FT12-316-SGR | 1-1/16" | 100 |
| QT-37FT16-304-SOR | QT-37FT16-316-SGR | 1-5/16" | 50 |
| QT-37FT20-304-SOR | QT-37FT20-316-SGR | 1-5/8" | 50 |
| | QT-37FT24-316-SGR | 1-7/8" | 25 |
| | QT-37FT32-316-SGR | 2-1/2" | 10 |
| FLARETITE KIT | | 7/16", 9/16", 3/4", 7/8", 1 1/16", 1 5/16", 1 5/8" | 5, 5, 5, 5, 5, 5, 5 |

Section 4 Adaptors



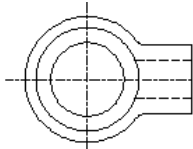
*Manufactured To Order (minimum qty's may apply)

Banjo Metric c/w Back Bore



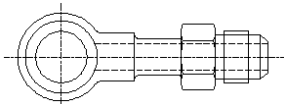
| P/Number | Diam | B/Bore |
|----------|------|--------|
| BJ1-08 | 8 | 5 |
| BJ1-10 | 10 | 6 |
| BJ1-12 | 12 | 8 |
| BJ1-14 | 14 | 10 |

Banjo BSPP c/w Back Bore



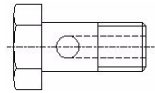
| P/Number | Diam | B/Bore |
|----------|------|--------|
| BJ2-02 | 1/8 | 1/8 |
| BJ2-04 | 1/4 | 1/4 |
| BJ2-06 | 3/8 | 3/8 |
| BJ2-08 | 1/2 | 1/2 |

Banjo Metric to JIC-M



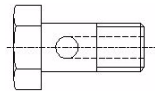
| P/Number | Diam | JIC |
|----------|------|------|
| BJ3-0807 | 8 | 7/16 |
| BJ3-0809 | 8 | 9/16 |
| BJ3-1007 | 10 | 7/16 |
| BJ3-1009 | 10 | 9/16 |
| BJ3-1209 | 12 | 9/16 |
| BJ3-1409 | 14 | 9/16 |

Banjo Bolt Metric



| P/Number | Diam | Pitch |
|--------------|------|-------|
| BJB-08Mx1.0 | 8 | 1 |
| BJB-08Mx1.25 | 8 | 1.25 |
| BJB-10Mx1.0 | 10 | 1 |
| BJB-12Mx1.5 | 12 | 1.5 |
| BJB-14Mx1.5 | 14 | 1.5 |

Banjo Bolt BSPP



| P/Number | Size |
|----------|------|
| BJB-02B | 1/8 |
| BJB-04B | 1/4 |
| BJB-06B | 3/8 |
| BJB-08B | 1/2 |

Banjo Washer

| P/Number | Type | Size |
|----------|--------|------|
| BJW-08M | Metric | 8 |
| BJW-10M | Metric | 10 |
| BJW-12M | Metric | 12 |
| BJW-14M | Metric | 14 |
| BJW-02B | BSPP | 1/8 |
| BJW-04B | BSPP | 1/4 |
| BJW-06B | BSPP | 3/8 |
| BJW-08B | BSPP | 1/2 |



My Notes

Section 5

Accessories



QUICK RELEASE COUPLINGS - FASTER

| | | |
|--------------|---|------|
| NV | Valve Type Couplings | 5.5 |
| NS | Ball Type Couplings | 5.5 |
| HNV | Poppet Type Couplings | 5.5 |
| ANV | A Series Standard Couplings | 5.5 |
| PV | Push-Pull Couplings | 5.6 |
| VV | Screw On Heavy Duty Couplings | 5.6 |
| PVVM | Screw On Couplings | 5.6 |
| FFH | Flat-Faced Couplings | 5.7 |
| 3FFH | Flat-Faced Couplings | 5.7 |
| 4BD4FH | Flat-Faced Couplings (Skid Steer Loaders) | 5.8 |
| FHV | Flat-Faced Screw Together | 5.9 |
| 3CFHF | Valve Type Rigid Mount Coupling | 5.9 |
| NZ | Interchange with PB3310 Coupling | 5.10 |
| DF | Coupling Test Point | 5.10 |

QUICK RELEASE COUPLINGS - SUNDRIES - FASTER

| | | |
|-----------------|--|------|
| TM & TF | PVC Dust Plug & Caps to suit NV couplings | 5.10 |
| TMV & TFV | Aluminium Dust Plugs & Caps to suit VV couplings | 5.10 |
| TMP & TFP | Aluminium Dust Plugs & Caps to suit P couplings | 5.10 |
| TM2 & TF2 | Dust Covers to suit FFH, 3FFH & 4BD4FH series | 5.11 |
| SD | Dual Bracket | 5.11 |
| SS | Support Nipple | 5.11 |
| TA | Self-Closing Dust Cap | 5.11 |

QUICK RELEASE COUPLINGS - MULTIFASTER

| | |
|--|------|
| Standard MultiFaster | 5.12 |
| Front End Loader MultiFaster | 5.12 |
| New Holland MultiFaster | 5.12 |
| MultiFaster Accessories & Spares | 5.12 |

PORTA-POWER HOSES

| | | |
|------------|-----------------------------------|------|
| PPH | Replacement Hose Assemblies | 5.14 |
| PVVM | Quick-Release Couplings | 5.14 |

QUICK RELEASE COUPLINGS - TEMA STYLE

| | |
|-----------------------|------|
| Coupling - CEJN | 5.15 |
|-----------------------|------|

SPLIT CLAMPS - CIOCCA

| | | |
|--------------|------------------------|------|
| SF30** | Flange Code 61 | 5.16 |
| SF60** | Flange Code 62 | 5.16 |
| CATFHS | Flange CAT-Style | 5.16 |

SAE FLANGES - CIOCCA

| | | |
|---------------|------------------------------|------|
| CFCS1** | Blanking Plate Code 61 | 5.17 |
| CFCS4** | Blanking Plate Code 62 | 5.17 |
| FP | Blanking Disc Code 61 | 5.18 |
| FPH | Blanking Disc Code 62 | 5.18 |
| CFS1** | BSPP Code 61 | 5.19 |
| CFS4** | BSPP Code 62 | 5.19 |
| CFS1**N | NPTF Code 61 | 5.19 |
| JIC-1** | JIC Code 61 | 5.20 |
| JIC-4** | JIC Code 62 | 5.20 |
| JIC-3** | JIC 90° Code 61 | 5.21 |
| JIC-6** | JIC 90° Code 62 | 5.21 |

PRESSURE TEST FLANGES - CIOCCA

| | | |
|--------------|-------------------------------|------|
| DST1** | BSPP Test Point Code 61 | 5.22 |
| DST4** | BSPP Test Point Code 62 | 5.22 |

CONNECTOR FLANGES - CIOCCA

| | | |
|-------------|---------------|------|
| FP1** | Code 61 | 5.23 |
| FP4** | Code 62 | 5.23 |

Section 5

Accessories

SAE FLANGE BOLT KITS

| | | |
|----------------|---|------|
| BKU-CAP | UNC Cap Head Bolt Kit | 5.24 |
| BKUH-CAP | UNC Cap Head Bolt Kit Heavy Duty | 5.24 |
| BKU-HEX | UNC Hex Head Bolt Kit | 5.24 |
| BKUH-HEX | UNC Hex Head Bolt Kit Heavy Duty | 5.24 |
| BKM-CAP | Metric Cap Head Bolt Kit | 5.24 |
| BKMH-CAP | Metric Cap Head Bolt Kit Heavy Duty | 5.24 |
| BKM-HEX | Metric Hex Head Bolt Kit | 5.24 |
| BKMH-HEX | Metric Hex Head Bolt Kit Heavy Duty | 5.24 |

SWIVEL JOINTS - HYDRAULICS INC

| | | |
|-----------------|-----------------------------|------|
| S SERIES | In Line Swivel Joints | 5.25 |
| 9S SERIES | 90 Swivel Joints | 5.26 |

SWIVEL JOINTS - TEMA

| | |
|--------------------|------|
| Swivel Joint | 5.27 |
|--------------------|------|

ROTARY COUPLINGS - WALVOIL

| | | |
|-------------------|--------------------------------|------|
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| GG90 SERIES | 90° Rotary Couplings | 5.28 |

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| GM-2 Series | 5.29 |
| GE-3 Series | 5.29 |
| VBB series | 5.29 |

CHECK VALVES

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PRESSURE GAUGES

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TEST POINTS - OLEOTEC

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TUBE

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|---|------|

STANDARD SERIES PIPE CLAMPS - SINGLES

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| | |
|-----------------------|------|
| Complete Clamps | 5.39 |
| Sub Components | 5.40 |

HEAVY SERIES CLAMPS - SINGLES

| | |
|-----------------------|------|
| Complete Clamps | 5.41 |
| Sub Components | 5.42 |

Section 5

Accessories



HOSE CLAMPS

| | | |
|--------------|--|------|
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| TTBS..... | All Stainless, Heavy Duty T-Bolt Clamps..... | 5.44 |
| MH & HS..... | Perforated Band Clamps | 5.45 |
| CAI..... | Vinyl Coated "P" Clamps | 5.46 |
| TRLC..... | Rubber Lined "P" Clamps | 5.46 |

Section 5

Accessories



NV Series

1/2" only interchangeable according to ISO 7241 Part A

Standard couplings for general purpose applications with poppet valve shut-off system.
Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|-------------|------------------|--------------------|--------------|------------|-----------------|-------|-------------------|----------|------------|
| | | | | | Caps | Plugs | Caps | Plugs | Female |
| BSPP | Male Half | Female Half | L/min | bar | | | | | |
| 1/4 | NV-14GAS-M | NV-14GAS-F | 15 | 350 | TF-14 | TM-14 | TF-14-S | TM-14-S | SK-NV14-F |
| 3/8 | NV-38GAS-M | NV-38GAS-F | 50 | 300 | TF-38 | TM-38 | - | - | SK-NV38-F |
| 1/2 | NV-12GAS-M | NV-12GAS-F | 75 | 300 | TF-12 | TM-12 | TF-12-S | TM-12-S | SK-NV12-F |
| 3/4 | NV-34GAS-M | NV-34GAS-F | 150 | 300 | TF-34 | TM-34 | TF-34-S | TM-34-S | SK-NV34-F |
| 1 | NV-1GAS-M | NV-1GAS-F | 220 | 250 | TF-1 | TM-1 | TF-1-S | TM-1-S | SK-NV1-F |
| 1-1/4 | NV-114GAS-M | NV-114GAS-F | 340 | 220 | - | - | TF-114-S | TM-114-S | SK-NV114-F |
| 1-1/2 | NV-112GAS-M | NV-112GAS-F | 450 | 200 | - | - | TF-112-S | TM-112-S | SK-NV112-F |
| 2 | NV-2GAS-M | NV-2GAS-F | 1000 | 150 | - | - | TF-2-S | TM-2-S | SK-NV2-F |

NPT, SAE & Metric thread types available on request



NS Series

1/2" only interchangeable according to ISO 7241 Part A

Standard couplings for general purpose applications with ball valve shut-off system.
Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|----------------------|------------------|--------------------|--------------|------------|-----------------|-------|-------------------|---------|-----------|
| | | | | | Caps | Plugs | Caps | Plugs | Female |
| BSPP/ NPT | Male Half | Female Half | L/min | bar | | | | | |
| 1/4 | NS-14GAS-M | NS-14GAS-F | 15 | 250 | TF-14 | TM-14 | TF-14-S | TM-14-S | SK-NV14-F |
| 1/4 | NS-14NPT-M | NS-14NPT-F | 15 | 250 | TF-14 | TM-14 | TF-14-S | TM-14-S | SK-NV14-F |
| 3/8 | NS-38GAS-M | NS-38GAS-F | 30 | 250 | TF-38 | TM-38 | - | - | SK-NV38-F |
| 3/8 | NS-38NPT-M | NS-38NPT-F | 30 | 250 | TF-38 | TM-38 | - | - | SK-NV38-F |
| 1/2 | NS-12GAS-M | NS-12GAS-F | 70 | 200 | TF-12 | TM-12 | TF-12-S | TM-12-S | SK-NV12-F |
| 1/2 | NS-12NPT-M | NS-12NPT-F | 70 | 200 | TF-12 | TM-12 | TF-12-S | TM-12-S | SK-NV12-F |
| 3/4 | NS-34GAS-M | NS-34GAS-F | 80 | 170 | TF-34 | TM-34 | TF-34-S | TM-34-S | SK-NV34-F |
| 3/4 | NS-34NPT-M | NS-34NPT-F | 80 | 170 | TF-34 | TM-34 | TF-34-S | TM-34-S | SK-NV34-F |
| 1 | NS-1GAS-M | NS-1GAS-F | 140 | 250 | TF-1 | TM-1 | TF-1-S | TM-1-S | SK-NV1-F |
| 1 | NS-1NPT-M | NS-1NPT-F | 140 | 250 | TF-1 | TM-1 | TF-1-S | TM-1-S | SK-NV1-F |

SAE & Metric thread types available on request



HNV Series

ISO 7241 Part B Interchange

Standard couplings for industrial applications. Poppet valve shut-off system.
Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow | MWP | Accessories PVC | | Seal Kits |
|-------------|------------------|--------------------|--------------|------------|-----------------|--------|-------------|
| | | | | | Caps | Plugs | Female |
| BSPP | Male Half | Female Half | L/min | bar | | | |
| 1/4 | HNV-14GAS-M | HNV-14GAS-F | 17 | 450 | TFH-14 | TMH-14 | SK-HNV14-F |
| 3/8 | HNV-38GAS-M | HNV-38GAS-F | 50 | 300 | TFH-38 | TMH-38 | SK-HNV38-F |
| 1/2 | HNV-12GAS-M | HNV-12GAS-F | 75 | 350 | TFH-12 | TMH-12 | SK-HNV12-F |
| 3/4 | HNV-34GAS-M | HNV-34GAS-F | 190 | 250 | TFH-34 | TMH-34 | SK-HNV34-F |
| 1 | HNV-1GAS-M | HNV-1GAS-F | 270 | 300 | TFH-1 | TMH-1 | SK-HNV1-F |
| 1-1/2 | HNV-112GAS-M | HNV-112GAS-F | 750 | 140 | - | - | SK-HNV112-F |
| 2 | HNV-2GAS-M | HNV-2GAS-F | 1600 | 90 | - | - | SK-HNV2-F |



ANV Series

ISO 7241 Part A Interchange

Standard couplings for agricultural applications. Poppet valve shut-off system.
Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow | MWP | Accessories PVC | | Seal Kits |
|--------|--------------|--------------|------|-----|-----------------|-------------|------------|
| | | | | | Male Half | Female Half | L/min |
| 1/4 | ANV-14GAS-M | ANV-14GAS-F | 8 | 500 | TFA-14 | TMA-14 | SK-ANV-14 |
| 3/8 | ANV-38GAS-M | ANV-38GAS-F | 30 | 300 | TFA-38 | TMA-38 | SK-ANV-38 |
| 1/2 | NV-12GAS-M | NV-12GAS-F | 75 | 300 | TF-12 | TM-12 | SK-NV12-F |
| 3/4 | ANV-34GAS-M | ANV-34GAS-F | 180 | 300 | TFA-34 | TMA-34 | SK-ANV-34 |
| 1 | ANV-1GAS-M | ANV-1GAS-F | 270 | 250 | TFA-1 | TMA-1 | SK-ANV-1 |
| 1-1/4 | ANV-114GAS-M | ANV-114GAS-F | 330 | 250 | - | - | SK-ANV-114 |
| 1-1/2 | ANV-112GAS-M | ANV-112GAS-F | 450 | 200 | - | - | SK-ANV-112 |
| 2 | ANV-2GAS-M | ANV-2GAS-F | 900 | 150 | - | - | SK-ANV-2 |

NPT, SAE & Metric thread types available on request



PV Series

ISO 7241 Part A Interchange

Push-pull couplings for agriculture, designed for panel mounted installation. BSP & NPT female thread available. Breakaway function.

Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|--------|---------------|-------------|----------|-----|-----------------|-------------|-------------------|---------|-----------|
| | | | | | Male Half | Female Half | l/min | bar | Caps |
| 1/2 | Use NV Series | PV-12GAS-F | 75 | 250 | TF-12 | TM-12 | TF-12-S | TM-12-S | SK-NV12-F |

NPT thread type available on request



VV Series

Robust, reliable & allows connection under residual pressure. Double function sleeve on female allows for connection with either VV or NV male halves.

Connection/Disconnection under pressure: Allowed residual.

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|--------|-------------|-------------|----------|-----|-----------------|-------------|-------------------|---------|-----------|
| | | | | | Male Half | Female Half | l/min | bar | Caps |
| 1/4 | VV-14GAS-M | VV-14GAS-F | 18 | 350 | - | - | TFV-14S | TMV-14S | SK-NV14-F |
| 3/8 | VV-38GAS-M | VV-38GAS-F | 30 | 300 | - | - | TFV-38S | TMV-38S | SK-NV38-F |
| 1/2 | VV-12GAS-M | VV-12GAS-F | 65 | 250 | - | - | TFV-12S | TMV-12S | SK-NV12-F |
| 3/4 | VV-34GAS-M | VV-34GAS-F | 100 | 250 | - | - | TFV-34S | TMV-34S | SK-NV34-F |
| 1 | VV-1GAS-M | VV-1GAS-F | 140 | 220 | - | - | TFV-1S | TMV-1S | SK-NV1-F |

NPT thread type available on request



PVVM Series

ISO 14540 Interchange

Screw-on couplings purposely designed for the heaviest applications (eg hydraulic jacks). Robust metal to metal sealing poppet valve. This series guarantees the best performance in terms of maximum working pressure.

Connection/Disconnection under pressure: Allowed residual.

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|--------|--------------|----------------|----------|------|-----------------|-------------|-------------------|--------|-------------|
| | | | | | Male Half | Female Half | l/min | bar | Caps |
| 1/4 | PVVM-14NPT-M | PVVM-1/14NPT-F | 15 | 1030 | - | - | TFP-14 | TMP-14 | SK-PVVM14-F |
| 3/8 | PVVM-38NPT-M | PVVM-1/38NPT-F | 20 | 1000 | - | - | TFP-38 | TMP-38 | SK-PVVM38-F |



Section 5 Accessories



FFH Series

ISO 16028 Interchange, 35MPa Series. Supersedes 2FFI Series

Flat face couplings with real maximum working pressure of 35MPa (350 bar) and zinc nickel plating. Flat valve shut-off system contributes to prevent contamination and spillage.

Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | | Seal Kits |
|----------|---------------|---------------|----------|-----|-----------------|----------|-------------------|-----------|------------|
| | | | | | Caps | Plugs | Caps | Plugs | |
| BSPP/SAE | Male Half | Female Half | L/min | bar | Caps | Plugs | Caps | Plugs | Male |
| 1/4 | FFH04-14GAS-M | FFH04-14GAS-F | 25 | 350 | TF2FI-14 | TM2FI-14 | TF2FI-14S | TM2FI-14S | SK-MF-14 |
| 3/8 | FFH06-38GAS-M | FFH06-38GAS-F | 50 | 350 | TFF-38 | TMF-38 | TF2FN-38S | TM2FN-38S | SK-FFH06-M |
| 1/2 | FFH06-12GAS-M | FFH06-12GAS-F | 50 | 350 | TFF-38 | TMF-38 | TF2FN-38S | TM2FN-38S | SK-FFH06-M |
| 3/4 | FFH06-12SAE-M | FFH06-12SAE-F | 50 | 350 | TFF-38 | TMF-38 | TF2FN-38S | TM2FN-38S | SK-FFH06-M |
| 1/2 | FFH08-12GAS-M | FFH08-12GAS-F | 110 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | SK-FFH08-M |
| 3/4 | FFH08-34GAS-M | FFH08-34GAS-F | 110 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | SK-FFH08-M |
| 7/8 | FFH08-58SAE-M | FFH08-58SAE-F | 110 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | SK-FFH08-M |
| 1-1/16 | FFH08-34SAE-M | FFH08-34SAE-F | 110 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | SK-FFH08-M |
| 3/4 | FFH10-34GAS-M | FFH10-34GAS-F | 125 | 350 | TF2FI-58 | TM2FI-58 | - | - | SK-FFH10-M |
| 3/4 | FFH12-34GAS-M | FFH12-34GAS-F | 160 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S | SK-FFH12-M |
| 1-1/16 | FFH12-34SAE-M | FFH12-34SAE-F | 160 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S | SK-FFH12-M |
| 1 | FFH12-1GAS-M | FFH12-1GAS-F | 160 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S | SK-FFH12-M |
| 1-5/16 | FFH12-1SAE-M | FFH12-1SAE-F | 160 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S | SK-FFH12-M |
| 1 | FFH16-1GAS-M | FFH16-1GAS-F | 230 | 350 | TF2FI-1 | TM2FI-1 | TF2FI-1S | TM2FI-1S | SK-FFH16-M |

NPT, SAE & Metric thread types available on request



3FFH Series

ISO 162028 Interchange. Supersedes 3FFI Series

Flat face couplings, real 35MPa (350 bar) max working pressure. Zinc-nickel plating.

Connection under pressure: Allowed residual.

Disconnection under pressure: Not allowed.

It is possible to couple either a 3FFH female half under pressure with a FFH male half, or a 3FFH male half under pressure with a FFH female half.

Using 3FFH Male Coupling & FFH Female Coupling

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | |
|--------|----------------|---------------|----------|-----|-----------------|----------|-------------------|-----------|
| | | | | | Caps | Plugs | Caps | Plugs |
| BSPP | Male Half | Female Half | L/min | bar | Caps | Plugs | Caps | Plugs |
| 3/8 | 3FFH06-38GAS-M | FFH06-38GAS-M | 35 | 350 | TFF-38 | TMF-38 | TF2FN-38S | TM2FN-38S |
| 1/2 | 3FFH08-12GAS-M | FFH08-12GAS-M | 65 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S |
| 3/4 | 3FFH12-34GAS-M | FFH12-34GAS-M | 115 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S |

NPT, SAE & Metric thread types available on request

Flow rates based on 3FFH coupler

Using 3FFH Female Coupling & FFH Male Coupling

| Thread | Part Number | Part Number | Flow LPM | MWP | Accessories PVC | | Accessories Alloy | |
|--------|----------------|---------------|----------|-----|-----------------|----------|-------------------|-----------|
| | | | | | Caps | Plugs | Caps | Plugs |
| BSPP | Female Half | Male Half | L/min | bar | Caps | Plugs | Caps | Plugs |
| 3/8 | 3FFH06-38GAS-F | FFH06-38GAS-M | 35 | 350 | TFF-38 | TMF-38 | TF2FN-38S | TM2FN-38S |
| 1/2 | 3FFH08-12GAS-F | FFH08-12GAS-M | 65 | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S |
| 3/4 | 3FFH12-34GAS-F | FFH12-34GAS-M | 115 | 350 | TF2FI-34 | TM2FI-34 | TF2FI-34S | TM2FI-34S |

NPT, SAE & Metric thread types available on request

Flow rates based on 3FFH coupler



Section 5

Accessories

4BD4FH Series

ISO 16028 Interchange

Designed to allow a quick connection and disconnection of attachments for skid steer loaders and other construction equipment machines. Shares all the benefits of the FFH series technology. High flow capability when using 3/4" cartridges instead of 1/2" (both sizes fit into the same body).







Connection under pressure: Using 3FFH Series.

Disconnection under pressure: In two steps.



| Coupling Flow Rates | |
|---------------------|---------|
| 1/2" | 3/4" |
| 100 Lpm | 145 Lpm |

| Manifold Coupling Size in | Thread JIC | Part Number Fixed Manifold | Part Number Connecting Couplings | MWP bar | Accessories PVC | | Accessories Alloy | | Seal Kits |
|---------------------------|-------------|----------------------------|----------------------------------|---------|-----------------|----------|-------------------|-----------|-----------|
| | | | | | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | |
| 1/2 | 7/8-MALE | 4BD4FH08-13/58S | FFH Series | 350 | TF2FI-12 | TM2FI-12 | TF2FI-12S | TM2FI-12S | N/A |
| | 1-1/16-MALE | 4BD4FH08-13/34S | | | | | | | |

| Spare Part Kits for the Current Series Manifold - FFH | | | | |
|---|---|---|--|-------------------|
| Part Number | KIT-4FH08-M | KIT-4FH08-F | KIT4BD-FFH06M | |
| 1/2" Replacement Couplings |  |  |  | Centre Drain Line |
| | KIT-4FH12-M | KIT-4FH12-F | KIT4BD-FFH06M | |
| 3/4" Replacement Couplings |  |  |  | Centre Drain Line |

| Spare Part Kits for the Obsolete Series Manifold - FFI | | | | |
|--|---|---|--|-------------------|
| Part Number | 4FI-12-M | 4FI-12-F | KIT4BD-FFN38M | |
| 1/2 Replacement Couplings |  |  |  | Centre Drain Line |

Section 5 Accessories



FHV Series

Screw on flat face couplings, suitable for construction equipment and heavy duty applications. No hose torsion during connection/disconnection thanks to internal bearing system. Equipped with a safety sleeve to prevent accidental disconnections due to vibrations.

Connection by hand up to 35MPa residual pressure in the male half.

Disconnection under pressure: Allowed.

| Thread | Part Number | | Flow LPM | MWP | Accessories Alloy | | Seal Kits |
|--------|----------------|----------------|----------|-----|-------------------|------------|-----------|
| | Male Half | Female Half | | | Caps | Plugs | |
| BSPP | | | l/min | bar | | | Male |
| 3/8 | FHV06-38GAS-M | FHV06-38GAS-F | 32 | 530 | TF-FHV06-S | TM-FHV06-S | SK-FHV-06 |
| 1/2 | FHV08-12GAS-M | FHV08-12GAS-F | 70 | 530 | TF-FHV08-S | TM-FHV08-S | SK-FHV-08 |
| 3/4 | FHV12-34GAS-M | FHV12-34GAS-F | 120 | 460 | TF-FHV12-S | TM-FHV12-S | SK-FHV-12 |
| 1 | FHV16-1GAS-M | FHV16-1GAS-F | 200 | 530 | TF-FHV16-S | TM-FHV16-S | SK-FHV-16 |
| 1-1/4 | FHV20-114GAS-M | FHV20-114GAS-F | 350 | 460 | TF-FHV20-S | TM-FHV20-S | SK-FHV-20 |
| 1-1/2 | FHV24-112GAS-M | FHV24-112GAS-F | 420 | 460 | TF-FHV24-S | TM-FHV24-S | SK-FHV-24 |

NPT, SAE (ORB & flange) & Metric flange thread types available on request



3CFHF Series

Supersedes 3CFPV Series

ISO 7241 Part A Interchange

Push-pull coupling, connectable with male under residual pressure. Breakaway function.

Can be screwed directly into valve port or rigid pipes.

Connection under pressure: Allowed male half up to working pressure.

Disconnection under pressure: Only as breakaway function.

The 3CFHF couplings feature a stronger seal configuration designed to withstand instant uncontrolled return flow peaks of oil from implements up to 250 L/min.

Since the high flow female couplers 3CFHF improve the ability of the hydraulic ports to withstand uncontrolled backflow surges, it is advised for the end user to also install high flow males on the implement side, at least in the return line of large actuators.



| Thread Type | Part Number | | | Flow Lpm | MWP bar | Accessories PVC | | Accessories Acetal Resin | Seal Kits |
|-------------|--------------------|-----------------------------|---|----------|---------|-----------------|-------|--------------------------|-----------------|
| | Male Half Standard | Male Half High Flow | Female Hal High Flow | | | Caps | Plugs | Self Closing Caps | |
| 22mm | NV | - | 3CFHF081/2215-F (Male Thread) | 70 | 250 | TF-12 | TM-12 | TA-12 | KIT-AE12S+OR12H |
| 7/8 UNO | | | 3CFHF1/78UNF-F (Male Thread) | | | | | | |
| 1/2 BSP | | NVHF08GAS-M (Female Thread) | 3CFHF08-12GAS-F (Female Thread) | | | | | | |
| 7/8 JIC B/H | | - | 3CFHF14/78UNF-F (Male Bulkhead JIC) | | | | | | |
| 22x1.5 B/H | | | 3CFHF087/2215-F (Male Bulkhead Short 15L) | | | | | | |

Other configurations available. The high flow feature is only guaranteed when coupled together with male and female high flow couplings.

NZ Series

PB3310 Interchange (PBR 1" Truck)

Similar to NV series couplings but are specially designed to interchange with couplings in the New Zealand market in the transport field.

Connection/Disconnection under pressure: Not allowed.

| Thread | Part Number | Part Number | Flow LPM | MWP | Interchange | | Accessories PVC | | Seal Kits |
|--------|-------------|-------------|----------|-----|-------------|----------|-----------------|----------|-----------|
| | | | | | Male | Female | Caps | Plugs | Female |
| BSPP | Male Half | Female Half | l/min | bar | PBR-16MT | PBR-16FB | PBR-16DC | PBR-16DP | - |
| 1 | NZ-1GAS-M | NZ-1GAS-F | 160 | 230 | | | | | |



DF Series

ISO 15171-1 Interchange

Flat face couplings specifically designed to measure the internal pressure of hydraulic circuits. Male part to be mounted on the hydraulic line and female part to be connected to gauge instruments.

Connection/Disconnection under pressure: Not allowed.

| Male Half | | Female Half | | Flow Lpm | MWP bar | Accessories PVC | | Seal Kits |
|---------------------------|----------------|-----------------------------|----------------|----------|---------|-----------------|-------|-----------|
| Thread Type Male Coupling | Part Number | Thread Type Female Coupling | Part Number | | | Caps | Plugs | Female |
| 1/8 NPT/F | DF04-18NPT-M | 1/8 NPT/F | DF04-18NPT-F | 2 | 470 | TFDF-04 | - | - |
| 1/4 NPT/F | DF04-14NPT-M | 1/4 NPT/F | DF04-14NPT-F | | | | | |
| 1/4 NPT/M | DF04-1/14NPT-M | 1/4 NPT/M | DF04-1/14NPT-F | | | | | |
| 7/16 UNO/M | DF04-1/14SAE-M | 7/16 UNO/F | DF04-14SAE-F | | | | | |
| 9/16 UNO/M | DF04-1/38SAE-M | 9/16 UNO/F | DF04-38SAE-F | | | | | |
| 1/4 BSPP/M | DF04-21/14G-M | 1/4 BSPP/F | DF04-14GAS-F | | | | | |

NPT, SAE, ORB & Metric thread types available on request

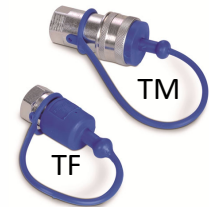


TM & TF Dust Caps and Plugs

To suit NV, NS coupling series. Standard colour blue, but also available in orange, yellow, black, red and green.



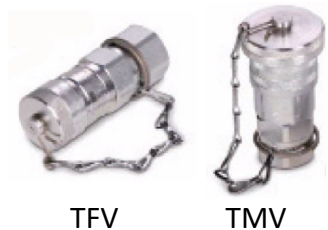
| Size (in) | Caps | Plugs |
|-----------|-------|-------|
| 1/4 | TF-14 | TM-14 |
| 3/8 | TF-38 | TM-38 |
| 1/2 | TF-12 | TM-12 |
| 3/4 | TF-34 | TM-34 |
| 1 | TF-1 | TM-1 |



TMV & TFV Dust Caps and Plugs

To suit VV series couplings.

| Size (in) | Caps | Plugs |
|-----------|---------|---------|
| 1/4 | TFV-14S | TMV-14S |
| 3/8 | TFV-38S | TMV-38S |
| 1/2 | TFV-12S | TMV-12S |
| 3/4 | TFV-34S | TMV-34S |
| 1 | TFV-1S | TMV-1S |



TMP & TFP Dust Caps and Plugs

To suit PVVM series couplings.

| Size (in) | Caps | Plugs |
|-----------|--------|--------|
| 1/4 | TFP-14 | TMP-14 |
| 3/8 | TFP-38 | TMP-38 |



Section 5 Accessories



TM2 & TF2 Dust Caps and Plugs

To suit FFH, 3FFH and 4BD4FH coupling series. Standard colour orange, but also available in blue, yellow, black red and green.



| Size (in) | PVC | | Aluminium | |
|-----------|-------------|-----------|-------------|-----------|
| | Suit Female | Suit Male | Suit Female | Suit Male |
| 1/4 | TM2FI-14 | TF2FI-14 | TM2FI-14S | TF2FI-14S |
| 3/8 | TMF-38 | TFF-38 | TM2FN-38S | TF2FN-38S |
| 1/2 | TM2FI-12 | TF2FI-12 | TM2FI-12S | TF2FI-12S |
| 3/4 | TM2FI-34 | TF2FI-34 | TM2FI-34S | TF2FI-34S |
| 1 | TM2FI-1 | TF2FI-1 | TM2FI-1S | TF2FI-1S |

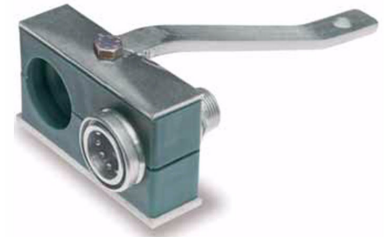


SD Dual Bracket 1/2" Couplings

To suit PV series couplings (push/pull type).

Colours: Green clamp insets and plated metal bracket

| Size (in) | Part No. |
|-----------|----------|
| 1/2 | SD-12 |



SS Support Nipple 1/2" Couplings

To suit NV/NS series male couplings.

| Size (in) | Part No. |
|-----------|----------|
| 1/2 | SS-12M |



TA Self-Closing Dust Cap

Specifically designed for push/pull quick release couplings. It closes itself automatically when the male is disconnected, sealing off dust and dirt. Produced in nylon with stainless steel springs and particularly resistant to weather changes and aging factors.

Colour: Blue (standard)

Available On Request (MOQ may apply):

Yellow, Red, Black, Green, Brown



| Size (in) | Part No. |
|-----------|----------|
| 1/2 | TA-12 |



MULTIFASTER

Quick-Release Multiconnection System



Quick and easy multiconnection system to connect several hydraulic, electrical and pneumatic lines. Connection and disconnection allowed even with lines under pressure with the 2P Series. Effortless connection under full working pressure with the 3P Series. Connection and latching is made with a cam lever, while disconnection requires depressing the safety lock first.

Other combinations are available; please contact our sales department.

Standard MultiFaster

| Coupling Size | Thread Size BSPP | Connections Available | Electrical Connections | Flow L/min | MWP bar | Fixed Half Part # | Mobile Half Part # | | |
|------------------|----------------------|-----------------------|------------------------|------------------------|---------|-------------------|--------------------|------------------|------------------|
| 06 | 3/8" | 2 | N/A | 40 | 250 | 2P206-2-38G-FC | 2P206-2-38G-MC | | |
| | | 4 | | | | 2P506-4-38G-FC | 2P506-4-38G-MC | | |
| | | 6 | | | | 2P606-6-38G-FC | 2P606-6-38G-MC | | |
| 08 | 1/2" | 2 | | 2P208-2-12G-FC | | 2P208-2-12G-MC | | | |
| | | 4 | | 2P508-4-12G-FC | | 2P508-4-12G-MC | | | |
| | | 6 | | 2P608-6-12G-FC | | 2P608-6-12G-MC | | | |
| 3 x 04 2 x 06 | 3 x 1/4" 2 x 3/8" | 5 | | 1/4" - 20 3/8" - 40 | | | | 2P5065-5-A-FC | 3P5065-5-A-MC |
| 08 | 1/2" | 4 x Hydraulic | | 1 x 3-Pin | | 70 | | 2PS08-1-4-12G-FC | 2PS08-1-4-12G-MC |

SPARE PARTS FOR STANDARD MULTIFASTER COUPLINGS

| Replacement Couplings | | | | Seal Kits | | Replacement Electrical Plug 3-Pin | |
|-----------------------|------------------|----------------------|-----------------------|------------------|--------------------|-----------------------------------|--------------|
| Coupling Size | Thread Size BSPP | Fixed Half 2P Series | Mobile Half 2P Series | Fixed Half | Mobile Half Part # | Fixed Half | Mobile Half |
| 04 | 1/4" | KIT2FNB14GASF | KIT2FNP14GASM | Replace Coupling | SK-MF-14 | KITSPEL08-3F | KITSPEL08-3M |
| 06 | 3/8" | KIT2FNB38GASF | KIT2FNP38GASM | | SK-MF-38 | | |
| 08 | 1/2" | KIT2FNB12GASF | KIT2FNP12GASM | | SK-MF-12 | | |

Section 5 Accessories



Front End Loader MultiFaster

| Base Size | Thread BSPP | Qty Of Lines | Elec. Conn. | Fixed Half | Mobile Half | Flow l/min | PSI |
|-----------|-------------|--------------|-------------|------------------|------------------|------------|------|
| 06 | 3/8 | 4 | N | 2PS06-4-38G-FC | 2PS06-4-38G-MC | 40 | 3625 |
| 06 | 1/2 | 4 | N | 2PS06-4-12G-FC | 2PS06-4-12G-MC | 40 | 3625 |
| 08 | 1/2 | 4 | Y | 2PS08-1-4-12G-FC | 2PS08-1-4-12G-MC | 70 | 3625 |

New Holland MultiFaster Special

| Base Size | Thread UNO | Qty Of Lines | Elec. Conn. | Fixed Half | Mobile Half | Flow l/min | PSI |
|-----------|------------|--------------|-------------|---------------|---------------|------------|------|
| 06 | 9/16 / 3/4 | 5 | N | 2P5065-5-A-FC | 3P5065-5-A-MC | | 3625 |

ACCESSORIES AND SPARES FOR MULTIFASTER

| Couplings | Docking | Dust Cover | Electrical | Guide Pins | Lever |
|-----------|---------|--------------|------------|------------|-------|
| | | | | | |
| Plates | Plugs | Safety Locks | Screws | Seals | |
| | | | | | |



Section 5 Accessories

Porta-Power

REPLACEMENT HYDRAULIC HOSE ASSEMBLIES TO SUIT PORTA-POWER UNITS

HOSE ASSEMBLIES

690 BAR (10,000 PSI) WORKING PRESSURE
2:1 SAFETY FACTOR



NB: Quick-release coupling half not included in hose assembly.

| Part No. | |
|---|--|
| PPH-500 | |
| PPH-1000 | |
| PPH-1500 | |
| PPH-2000 | |
| PPH-2500 | |
| PPH-3000 | |
| PPH-3500 | |
| PPH-4000 | |
| PPH-4500 | |
| PPH-5000 | |
| PPH-5500 | |
| PPH-6000 | |
| PPH-6500 | |
| PPH-7000 | |
| PPH-7500 | |
| PPH-10000 | |
| PPH-12000 | |
| PPH-13000 | |
| PPH-14000 | |
| PPH-15000 | |
| Part No. indicates length in (mm). | |
| Also available: CN9-0606H Socket 3/8" NPT High Pressure | |

1/4" Jack Line hose (4J2AT)
3/8" Male NPT couplings and wire bend restrictors fitted at each end

PVVM Series

ISO 14540 Interchange

Quick Release screw-on couplings. Heavy Duty Series

Screw-in couplings purposely designed for the heaviest applications (eg hydraulic jacks). Robust metal to metal sealing poppet valve, this series guarantees the best performance in terms of maximum working pressure.
Connection/Disconnection under pressure: Allowed residual.

| Part No. | DESCRIPTION |
|----------------|--------------------------------|
| PVVM-38NPT-M | Male half coupler 3/8" NPTF |
| PVVM-1/38NPT-F | Female half coupler, 3/8" NPTF |
| TFP-38 | Dust Cap (Hose Half) |
| TMP-38 | Dust Plug (Ram Half) |

Also available 1/4" NPT

Hose Half



Ram Half

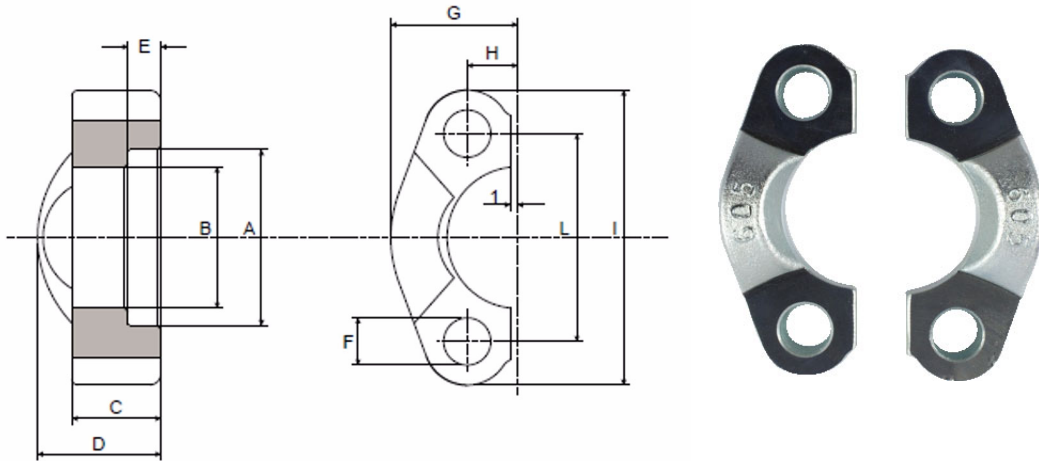
CEJN Quick Release Couplings

TEMA Interchange
 Manual locking ring for extra security
 High durability
 Sturdy design



| Thread BSP (in) | Part No. Male | Part No. Female | Flow L/min | MWP bar | Accessories PVC | |
|-----------------------|------------------|--------------------|---------------|------------|-----------------|-------|
| | | | | | Caps | Plugs |
| 1/4 | 2520 | 2510 | 29 | 450 | 2526 | 2516 |
| 3/8 | 3820 | 3810 | 69 | 350 | 3826 | 3816 |
| 1/2 | 5020 | 5010 | 122 | 300 | 5026 | 5016 |
| 3/4 | 7520 | 7510 | 250 | 280 | 7526 | 7516 |
| 1 | 10020 | 10010 | 425 | 250 | 10026 | 10016 |

Flange Split Clamp - Code 61, 62 & CAT



Flange Split Clamp (Set = 2 halves)

| New Part # | Series 61 WP (bar) | SAE | A mm | C mm | E mm | F mm | H mm | L mm | Bolt Kit | |
|------------|-----------------------|--------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | | | | | | | | mm | Imperial |
| SF3001 | 348 | 1/2" | 31 | 13 | 6.2 | 8.75 | 8.7 | 38.1 | BKM-08 | BKU-5/16 |
| SF3002 | 348 | 3/4" | 38.9 | 14 | 6.2 | 10.5 | 11.1 | 47.6 | BKM-10 | BKU-3/8 |
| SF3003 | 348 | 1" | 45.2 | 16 | 7.5 | 10.5 | 13.1 | 52.4 | BKM-10 | BKU-3/8 |
| SF3004 | 278 | 1-1/4" | 51.6 | 14 | 7.5 | 12 | 15.1 | 58.7 | BKM-10 | BKU-7/16 |
| SF3005 | 210 | 1-1/2" | 61.1 | 16 | 7.5 | 13.5 | 17.9 | 69.9 | BKM-12 | BKU-1/2 |
| SF3006 | 210 | 2" | 72.2 | 16 | 9 | 13.5 | 21.4 | 77.8 | BKM-12 | BKU-1/2 |
| SF3007 | 175 | 2-1/2" | 84.9 | 19 | 9 | 13.5 | 25.4 | 88.9 | BKM-12 | BKU-1/2 |
| SF3008 | 138 | 3" | 102.4 | 22 | 9 | 17 | 31.0 | 106.4 | BKM-16 | BKU-5/8 |

*Larger sizes available on request

Bolt kit part numbers on page 5.24

Flange Split Clamp (Set = 2 halves)

| New Part # | Series 62 WP (bar) | SAE | A mm | C mm | E mm | F mm | H mm | L mm | Bolt Kit | |
|------------|-----------------------|--------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | | | | | | | | mm | Imperial |
| SF6001 | 420 | 1/2" | 32.5 | 16 | 7.2 | 8.75 | 9.1 | 40.5 | BKM-08 | BKU-5/16 |
| SF6002 | 420 | 3/4" | 42 | 19 | 8.3 | 10.5 | 11.90 | 50.8 | BKMH-10 | BKU-3/8 |
| SF6003 | 420 | 1" | 48.4 | 24 | 9 | 13 | 13.9 | 57.2 | BKMH-12 | BKU-7/16 |
| SF6004 | 420 | 1-1/4" | 54.8 | 27 | 9.8 | 15 | 15.9 | 66.6 | BKM-14 | BKU-1/2 |
| SF6005 | 420 | 1-1/2" | 64.3 | 30 | 12.1 | 17 | 18.3 | 79.3 | BKM-16 | BKU-5/8 |
| SF6006 | 420 | 2" | 80.2 | 37 | 12.1 | 21 | 22.2 | 96.8 | BKM-20 | BKU-3/4 |

*Larger sizes available on request

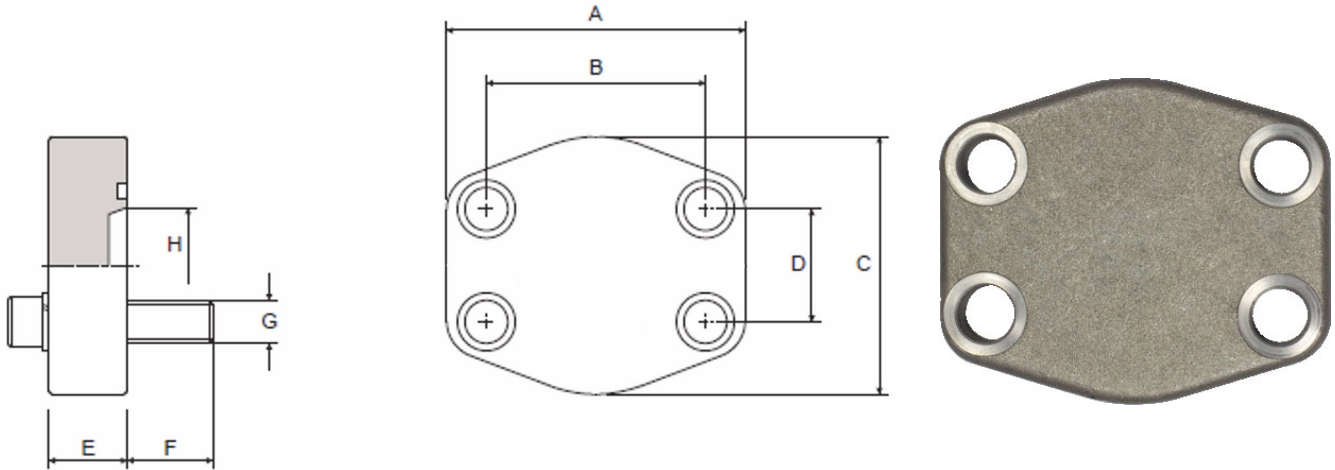
Bolt kit part numbers on page 5.24

Flange Split Clamp (Set = 2 halves)

| Part # | Series CAT WP (bar) | CAT | A mm | C mm | E mm | F mm | H mm | L mm | Bolt Kit | |
|----------|------------------------|--------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | | | | | | | | mm | Imperial |
| 12CATFHS | 420 | 3/4" | 42 | - | - | 10.5 | 11.9 | 50.8 | BKMH-10 | BKU-3/8 |
| 16CATFHS | 420 | 1" | 48.4 | - | - | 12.0 | 13.9 | 57.2 | BKMH-12 | BKU-7/16 |
| 20CATFHS | 420 | 1-1/4" | 54.8 | - | - | 13.5 | 15.9 | 66.6 | BKMH-14 | BKU-1/2 |
| 24CATFHS | 420 | 1-1/2" | 64.3 | - | - | 16.5 | 18.3 | 79.3 | BKMH-16 | BKU-5/8 |
| 32CATFHS | 420 | 2" | 80.2 | - | - | 20.0 | 22.2 | 96.8 | BKMH-20 | BKU-3/4 |

Bolt kit part numbers on page 5.24

Flange Blanks - Code 61 & 62



Straight Flange

| New Part # | Series 61 WP (bar) | SAE | A mm | B mm | C mm | D mm | E mm | O-Ring | Bolt Kit | |
|---------------|-----------------------|--------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | mm | Imperial |
| CFCS080-1/2 | 348 | 1/2" | 57 | 38.1 | 47 | 17.5 | 16 | R02-08 | BKM-08 | BKU-5/16 |
| CFCS100-3/4 | 348 | 3/4" | 66 | 47.6 | 49 | 22.3 | 18 | R02-12 | BKM-10 | BKU-3/8 |
| CFCS102-1 | 348 | 1" | 71 | 52.4 | 53 | 26.2 | 19 | R02-16 | BKM-10 | BKU-3/8 |
| CFCS104-1-1/4 | 278 | 1-1/4" | 80 | 58.7 | 69 | 30.2 | 21 | R02-20 | BKM-10 | BKU-7/16 |
| CFCS106-1-1/2 | 210 | 1-1/2" | 95 | 69.9 | 77 | 35.7 | 25 | R02-24 | BKM-12 | BKU-1/2 |
| CFCS108-2 | 210 | 2" | 103 | 77.8 | 89 | 42.9 | 25 | R02-32 | BKM-12 | BKU-1/2 |
| CFCS110-2-1/2 | 175 | 2-1/2" | 116 | 88.9 | 101 | 50.8 | 25 | R02-40 | BKM-12 | BKUH-1/2 |
| CFCS112-3 | 138 | 3" | 136 | 106.4 | 124 | 61.9 | 27 | R02-48 | BKM-16 | BKU-5/8 |

*3-1/2", 4" & 5" sizes available on request

Bolt kit part numbers on page 5.24

Straight Flange

| New Part # | Series 62 WP (bar) | SAE | A mm | B mm | C mm | D mm | E mm | O-Ring | Bolt Kit | |
|---------------|-----------------------|--------|---------|---------|---------|---------|---------|--------|----------|-----------|
| | | | | | | | | | mm | Imperial |
| CFCS401-1/2 | 420 | 1/2" | 57 | 40.5 | 47 | 18.2 | 16 | R02-08 | BKM-08 | BKU-5/16 |
| CFCS402-3/4 | 420 | 3/4" | 71 | 50.8 | 53 | 23.8 | 19 | R02-12 | BKMH-10 | BKUH-3/8 |
| CFCS403-1 | 420 | 1" | 80 | 57.2 | 66 | 27.8 | 24 | R02-16 | BKMH-12 | BKUH-7/16 |
| CFCS404-1-1/4 | 420 | 1-1/4" | 94 | 66.6 | 77 | 31.8 | 27 | R02-20 | BKM-14 | BKUH-1/2 |
| CFCS405-1-1/2 | 420 | 1-1/2" | 103 | 79.3 | 89 | 36.5 | 30 | R02-24 | BKM-16 | BKU-5/8 |
| CFCS406-2 | 420 | 2" | 135 | 96.8 | 123 | 44.5 | 37 | R02-32 | BKM-20 | BKU-3/4 |

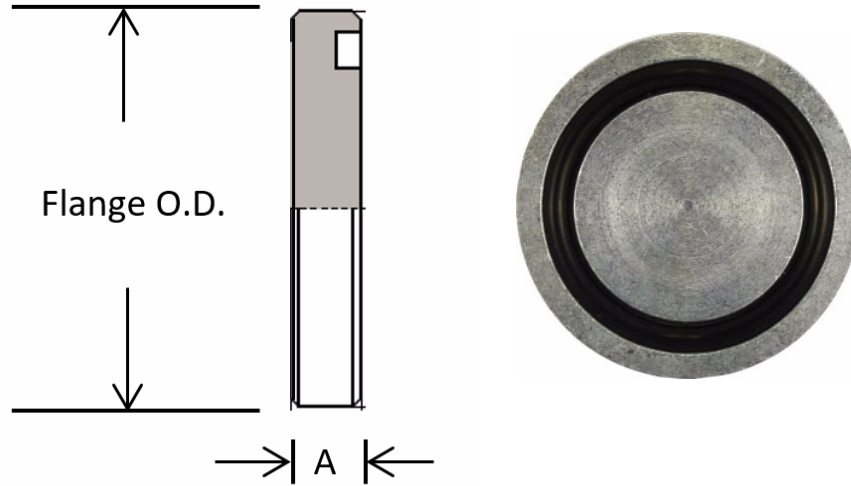
*Larger sizes available on request

Bolt kit part numbers on page 5.24

Section 5

Accessories

Flange Split Clamp Plugs - Code 61 & 62



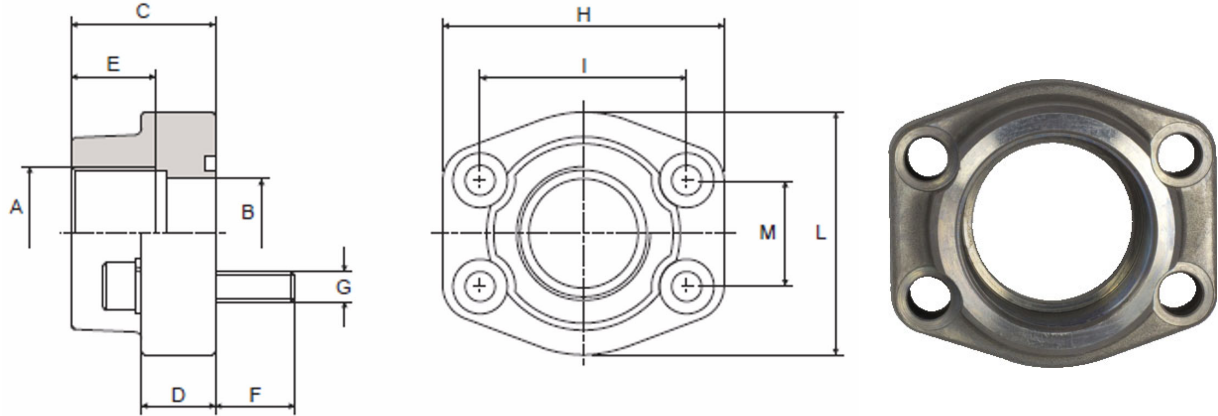
Flange Split Clamp Plug - Code 61

| Part # | Series 61 WP (bar) | SAE | Flange O.D. mm | A mm | O-Ring mm |
|--------|-----------------------|--------|-------------------|---------|--------------|
| FP-08 | 210 | 1/2" | 30.2 | 6.7 | R02-08 |
| FP-12 | 210 | 3/4" | 38.1 | 6.7 | R02-12 |
| FP-16 | 210 | 1" | 44.5 | 8.0 | R02-16 |
| FP-20 | 210 | 1-1/4" | 50.8 | 8.0 | R02-20 |
| FP-24 | 210 | 1-1/2" | 60.3 | 8.0 | R02-24 |
| FP-32 | 210 | 2" | 71.4 | 9.5 | R02-32 |

Flange Split Clamp Plug - Code 62

| Part # | Series 62 WP (bar) | SAE | Flange O.D. mm | A mm | O-Ring mm |
|--------|-----------------------|--------|-------------------|---------|--------------|
| FPH-08 | 420 | 1/2" | 31.8 | 7.7 | R02-08 |
| FPH-12 | 420 | 3/4" | 41.3 | 8.8 | R02-12 |
| FPH-16 | 420 | 1" | 47.6 | 9.5 | R02-16 |
| FPH-20 | 420 | 1-1/4" | 54.0 | 10.3 | R02-20 |
| FPH-24 | 420 | 1-1/2" | 63.5 | 12.6 | R02-24 |
| FPH-32 | 420 | 2" | 79.4 | 12.6 | R02-32 |

BSPP & NPT - Code 61 & 62



Straight Flange to BSPP Female - Code 61

| New Part # | Series 61 WP (bar) | A BSPP | C mm | D mm | H mm | I mm | L mm | M mm | O-Ring | Bolt Kit | |
|---------------|-----------------------|-----------|---------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | | mm | Imperial |
| CFS080G-1/2 | 348 | 1/2" | 36 | 16 | 57 | 38.1 | 47 | 17.5 | R02-08 | BKM-08 | BKU-5/16 |
| CFS100G-3/4 | 348 | 3/4" | 36 | 18 | 66 | 47.6 | 49 | 22.3 | R02-12 | BKM-10 | BKU-3/8 |
| CFS102G-1 | 348 | 1" | 38 | 18 | 71 | 52.4 | 53 | 26.2 | R02-16 | BKM-10 | BKU-3/8 |
| CFS104G-1-1/4 | 278 | 1-1/4" | 41 | 21 | 80 | 58.7 | 69 | 30.2 | R02-20 | BKM-10 | BKU-7/16 |
| CFS106G-1-1/2 | 210 | 1-1/2" | 44 | 25 | 94 | 69.9 | 77 | 35.7 | R02-24 | BKM-12 | BKU-1/2 |
| CFS108G-2 | 210 | 2" | 45 | 25 | 103 | 77.8 | 89 | 42.9 | R02-32 | BKM-12 | BKU-1/2 |
| CFS110G-2-1/2 | 175 | 2-1/2" | 50 | 25 | 115 | 88.9 | 101 | 50.8 | R02-40 | BKM-12 | BKU-1/2 |
| CFS112G-3 | 138 | 3" | 50 | 27 | 135 | 106.4 | 124 | 61.9 | R02-48 | BKM-16 | BKU-5/8 |

*3-1/2", 4" & 5" sizes available on request

Bolt kit part numbers on page 5.24

Straight Flange to BSPP Female - Code 62

| New Part # | Series 62 WP (bar) | A BSPP | C mm | D mm | H mm | I mm | L mm | M mm | O-Ring | Bolt Kit | |
|---------------|-----------------------|-----------|---------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | | mm | Imperial |
| CFS401G-1/2 | 420 | 1/2" | 36 | 16 | 57 | 40.5 | 47 | 18.2 | R02-08 | BKM-08 | BKU-5/16 |
| CFS402G-3/4 | 420 | 3/4" | 36 | 19 | 71 | 50.8 | 53 | 23.8 | R02-12 | BKMH-10 | BKU-3/8 |
| CFS403G-1 | 420 | 1" | 44 | 24 | 80 | 57.2 | 69 | 27.8 | R02-16 | BKMH-12 | BKU-7/16 |
| CFS404G-1-1/4 | 420 | 1-1/4" | 44 | 27 | 94 | 66.6 | 77 | 31.8 | R02-20 | BKM-14 | BKU-1/2 |
| CFS405G-1-1/2 | 420 | 1-1/2" | 51 | 30 | 106 | 79.3 | 89 | 36.5 | R02-24 | BKM-16 | BKU-5/8 |
| CFS406G-2 | 420 | 2" | 70 | 37 | 135 | 96.8 | 116 | 44.5 | R02-32 | BKM-20 | BKU-3/4 |

Bolt kit part numbers on page 5.24

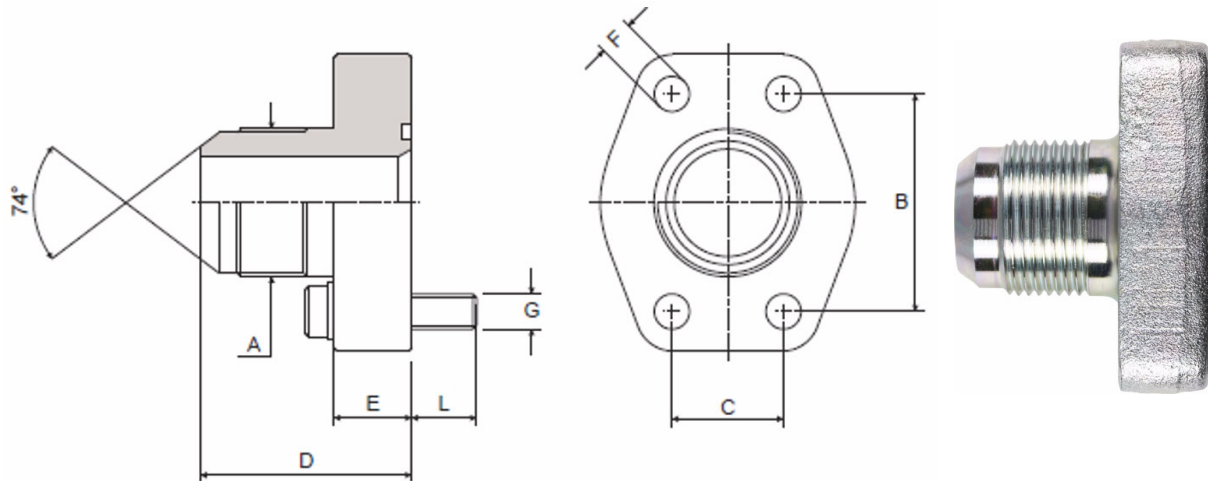
Straight Flange to NPT Female - Code 61

| New Part # | Series 61 WP (bar) | A NPT | C mm | D mm | H mm | I mm | L mm | M mm | O-Ring | Bolt Kit | |
|---------------|-----------------------|----------|---------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | | mm | Imperial |
| CFS080N-1/2 | 348 | 1/2" | 36 | 16 | 57 | 38.1 | 47 | 17.5 | R02-08 | BKM-08 | BKU-5/16 |
| CFS100N-3/4 | 348 | 3/4" | 36 | 18 | 66 | 47.6 | 49 | 22.3 | R02-12 | BKM-10 | BKU-3/8 |
| CFS102N-1 | 348 | 1" | 38 | 18 | 71 | 52.4 | 53 | 26.2 | R02-16 | BKM-10 | BKU-3/8 |
| CFS104N-1-1/4 | 278 | 1-1/4" | 41 | 21 | 80 | 58.7 | 69 | 30.2 | R02-20 | BKM-10 | BKU-7/16 |
| CFS106N-1-1/2 | 210 | 1-1/2" | 44 | 25 | 94 | 69.9 | 77 | 35.7 | R02-24 | BKM-12 | BKU-1/2 |
| CFS108N-2 | 210 | 2" | 45 | 25 | 103 | 77.8 | 89 | 42.9 | R02-32 | BKM-12 | BKU-1/2 |
| CFS110N-2-1/2 | 175 | 2-1/2" | 50 | 25 | 115 | 88.9 | 101 | 50.8 | R02-40 | BKM-12 | BKU-1/2 |

*3", 3-1/2", 4" & 5" sizes available on request

Bolt kit part numbers on page 5.24

JIC Male - Code 61 & 62



Straight Flange To Male JIC - Code 61

| Part # | Series 61 WP (bar) | SAE | A Thread | B mm | C mm | D mm | E mm | F mm | O-Ring | Bolt Kit | |
|-----------|-----------------------|--------|-------------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | | mm | Imperial |
| JIC-080-A | 348 | 1/2" | 3/4"-16* | 38.1 | 17.5 | 41 | 16 | 9 | R02-08 | BKM-08 | BKU-5/16 |
| JIC-080-B | | | 7/8"-14 | | | | | | | | |
| JIC-080-C | | | 1-1/16"-12* | | | | | | | | |
| JIC-100-A | 348 | 3/4" | 7/8"-14* | 47.6 | 22.3 | 47 | 18 | 11 | R02-12 | BKM-10 | BKU-3/8 |
| JIC-100-B | | | 1-1/16"-12 | | | | | | | | |
| JIC-100-C | | | 1-5/16"-12* | | | | | | | | |
| JIC-102-A | 348 | 1" | 1-1/16"-12* | 52.4 | 26.2 | 51 | 18 | 11 | R02-16 | BKM-10 | BKU-3/8 |
| JIC-102-B | | | 1-5/16"-12 | | | | | | | | |
| JIC-102-C | | | 1-5/8"-12* | | | | | | | | |
| JIC-104-A | 278 | 1-1/4" | 1-5/16"-12* | 58.7 | 30.2 | 56 | 21 | 11.5 | R02-20 | BKM-10 | BKU-7/16 |
| JIC-104-B | | | 1-5/8"-12 | | | | | | | | |
| JIC-104-C | | | 1-7/8"-12* | | | | | | | | |
| JIC-106-A | 210 | 1-1/2" | 1-5/8"-12* | 69.9 | 35.7 | 64 | 24 | 13.5 | R02-24 | BKM-12 | BKU-1/2 |
| JIC-106-B | | | 1-7/8"-12 | | | | | | | | |

Bolt kit part numbers on page 5.24

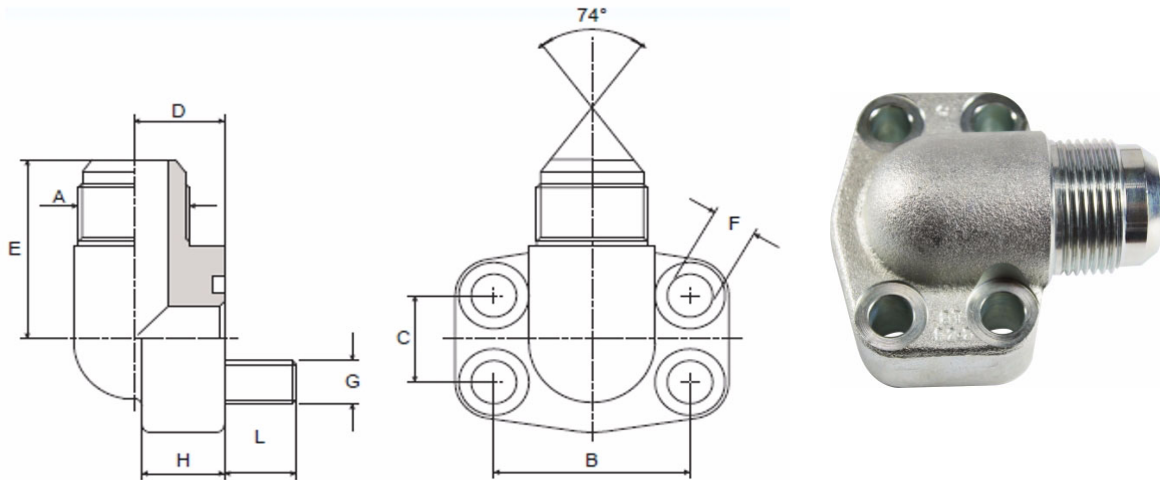
Straight Flange to Male JIC - Code 62

| Part # | Series 62 WP (bar) | SAE | A Thread | B mm | C mm | D mm | E mm | F mm | O-Ring | Bolt Kit | |
|-----------|-----------------------|--------|-------------|---------|---------|---------|---------|---------|--------|----------|-----------|
| | | | | | | | | | | mm | Imperial |
| JIC-402-A | 420 | 3/4" | 7/8"-14* | 50.8 | 23.8 | 49 | 18 | 11 | R02-12 | BKMH-10 | BKUH-3/8 |
| JIC-402-B | | | 1-1/16"-12 | | | | | | | | |
| JIC-402-C | | | 1-5/16"-12* | | | | | | | | |
| JIC-403-A | 420 | 1" | 1-1/16"-12* | 57.2 | 27.8 | 58 | 21 | 13 | R02-16 | BKMH-12 | BKUH-7/16 |
| JIC-403-B | | | 1-5/16"-12 | | | | | | | | |
| JIC-403-C | | | 1-5/8"-12* | | | | | | | | |
| JIC-404-A | 420 | 1-1/4" | 1-5/16"-12* | 66.6 | 31.8 | 64 | 24 | 15 | R02-20 | BKM-14 | BKUH-1/2 |
| JIC-404-B | | | 1-5/8"-12 | | | | | | | | |
| JIC-404-C | | | 1-7/8"-12* | | | | | | | | |
| JIC-405-A | 420 | 1-1/2" | 1-5/8"-12* | 79.3 | 36.5 | 70 | 27 | 17 | R02-24 | BKM-16 | BKU-5/8 |
| JIC-405-B | | | 1-7/8"-12 | | | | | | | | |

*Non-stock - Jump sizes available on request

Bolt kit part numbers on page 5.24

90° JIC Male - Code 61 & 62



Straight Flange To Male JIC 90° - Code 61

| Part # | Series 61 WP (bar) | SAE | A Thread | B mm | C mm | D mm | F mm | H mm | O-Ring | Bolt Kit | |
|--------------|-----------------------|--------|-------------|---------|---------|---------|---------|---------|--------|----------|----------|
| | | | | | | | | | | mm | Imperial |
| JIC-300-90-A | 348 | 1/2" | 3/4"-16* | 38.1 | 17.5 | 17 | 9 | 16 | R02-08 | BKM-08 | BKU-5/16 |
| JIC-300-90-B | | | 7/8"-14 | | | 17 | | | | | |
| JIC-300-90-C | | | 1-1/16"-12* | | | 20 | | | | | |
| JIC-301-90-A | 348 | 3/4" | 7/8"-14* | 47.6 | 22.3 | 20 | 11 | 25 | R02-12 | BKM-10 | BKU-3/8 |
| JIC-301-90-B | | | 1-1/16"-12 | | | 20 | | | | | |
| JIC-301-90-C | | | 1-5/16"-12* | | | 25 | | | | | |
| JIC-302-90-A | 348 | 1" | 1-1/16"-12* | 52.4 | 26.2 | 20 | 11 | 19 | R02-16 | BKM-10 | BKU-3/8 |
| JIC-302-90-B | | | 1-5/16"-12 | | | 25 | | 24 | | | |
| JIC-304-90-A | 278 | 1-1/4" | 1-5/16"-12* | 58.7 | 30.2 | 25 | 11.5 | 25 | R02-20 | BKM-10 | BKU-7/16 |
| JIC-304-90-B | | | 1-5/8"-12 | | | 31 | | | | | |
| JIC-304-90-C | | | 1-7/8"-12* | | | 32 | | | | | |
| JIC-306-90-A | 210 | 1-1/2" | 1-5/8"-12* | 69.9 | 35.7 | 31 | 13.5 | 25 | R02-24 | BKM-12 | BKU-1/2 |
| JIC-306-90-B | | | 1-7/8"-12 | | | 37 | | | | | |

Bolt kit part numbers on page 5.24

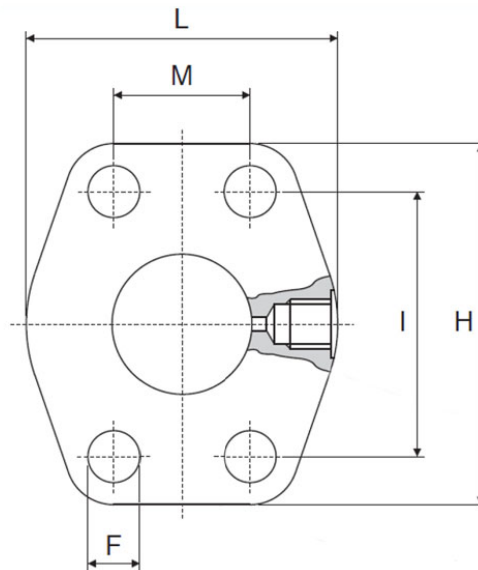
Straight Flange to Male JIC 90° - Code 62

| Part # | Series 62 WP (bar) | SAE | A Thread | B mm | C mm | D mm | F mm | H mm | O-Ring | Bolt Kit | |
|--------------|-----------------------|--------|-------------|---------|---------|---------|---------|---------|--------|----------|-----------|
| | | | | | | | | | | mm | Imperial |
| JIC-601-90-A | 420 | 3/4" | 7/8"-14* | 50.8 | 23.8 | 20 | 11 | 22 | R02-12 | BKMH-10 | BKUH-3/8 |
| JIC-601-90-B | | | 1-1/16"-12 | | | 20 | | | | | |
| JIC-601-90-C | | | 1-5/16"-12* | | | 25 | | | | | |
| JIC-602-90-A | 420 | 1" | 1-1/16"-12* | 57.2 | 27.8 | 25 | 13 | 24 | R02-16 | BKMH-12 | BKUH-7/16 |
| JIC-602-90-B | | | 1-5/16"-12 | | | 25 | | | | | |
| JIC-602-90-C | | | 1-5/8"-12* | | | 31 | | | | | |
| JIC-604-90-A | 420 | 1-1/4" | 1-5/16"-12* | 66.6 | 31.6 | 31 | 15 | 25 | R02-20 | BKM-14 | BKUH-1/2 |
| JIC-604-90-B | | | 1-5/8"-12 | | | 33 | | | | | |
| JIC-604-90-C | | | 1-7/8"-12* | | | 37 | | | | | |
| JIC-606-90-A | 420 | 1-1/2" | 1-5/8"-12* | 79.3 | 36.5 | 37 | 17 | 26 | R02-24 | BKM-16 | BKU-5/8 |
| JIC-606-90-B | | | 1-7/8"-12 | | | 37 | | | | | |

*Non-stock - Jump sizes available on request

Bolt kit part numbers on page 5.24

PRESSURE TEST FLANGE



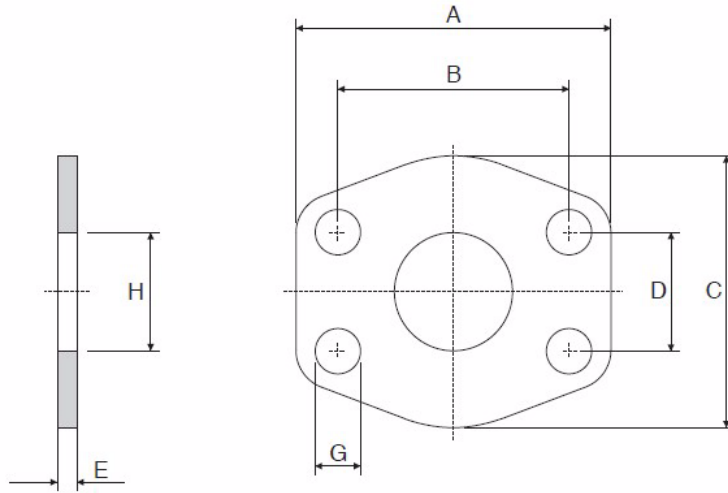
| Part # | Series 61 WP bar | SAE | Flange Thickness mm | F mm | H mm | I mm | L mm | M mm | Test Point Thread BSP |
|--------|------------------|--------|---------------------|------|------|-------|------|------|-----------------------|
| DST102 | 348 | 1" | 19 | 11 | 71 | 52.5 | 53 | 26.2 | G 1/8" |
| DST104 | 278 | 1-1/4" | 20 | 11.5 | 80 | 58.7 | 69 | 30.2 | |
| DST106 | 210 | 1-1/2" | 25 | 13.5 | 94 | 69.9 | 77 | 35.7 | G 1/4" |
| DST108 | 210 | 2" | 25 | 13.5 | 103 | 77.8 | 89 | 42.9 | |
| DST110 | 175 | 2-1/2" | 25 | 13.5 | 115 | 88.9 | 101 | 50.8 | |
| DST112 | 138 | 3" | 27 | 17 | 135 | 106.4 | 124 | 61.9 | |

*Larger sizes available on request. Test point not included with flange.

| Part # | Series 62 WP bar | SAE | Flange Thickness mm | F mm | H mm | I mm | L mm | M mm | Test Point Thread BSP |
|--------|------------------|--------|---------------------|------|------|-------|------|------|-----------------------|
| DST403 | 420 | 1" | 22 | 13 | 80 | 57.2 | 69 | 27.8 | G 1/8" |
| DST404 | | 1-1/4" | 26 | 15 | 94 | 66.6 | 77 | 31.8 | |
| DST405 | | 1-1/2" | 30 | 17 | 106 | 79.3 | 89 | 36.5 | G 1/4" |
| DST406 | | 2" | 36 | 21 | 135 | 96.8 | 116 | 44.5 | |
| DST408 | | 2-1/2" | 45 | 25 | 166 | 123.8 | 150 | 58.7 | |
| DST410 | | 3" | 55 | 32 | 208 | 152.4 | 178 | 71.4 | |

*Larger sizes available on request. Test point not included with flange.

Connector Flange - Code 61 & 62



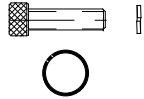
| Part # | Series 61 WP bar | SAE | A mm | B mm | C mm | D mm | E mm | G mm | H mm |
|--------|---------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| FP080 | 210 | 1/2" | 57 | 38.1 | 47 | 17.5 | 3 | 9 | 13 |
| FP100 | | 3/4" | 66 | 47.6 | 49 | 22.3 | | 11 | 19 |
| FP102 | | 1" | 71 | 52.4 | 53 | 26.2 | | 11 | 25 |
| FP104 | | 1-1/4" | 80 | 58.7 | 69 | 30.2 | | 11.5 | 32 |
| FP106 | | 1-1/2" | 95 | 69.9 | 77 | 35.7 | | 13.5 | 38 |
| FP108 | | 2" | 103 | 77.8 | 89 | 42.9 | | 13.5 | 51 |

| Part # | Series 62 WP bar | SAE | A mm | B mm | C mm | D mm | E mm | G mm | H mm |
|--------|---------------------|--------|---------|---------|---------|---------|---------|---------|---------|
| FP401 | 420 | 1/2" | 57 | 40.5 | 47 | 18.2 | 4 | 9 | 13 |
| FP402 | | 3/4" | 71 | 50.8 | 53 | 23.8 | | 11 | 17 |
| FP403 | | 1" | 80 | 57.2 | 66 | 27.8 | | 13 | 24 |
| FP404 | | 1-1/4" | 94 | 66.6 | 77 | 31.8 | | 15 | 31 |
| FP405 | | 1-1/2" | 103 | 79.3 | 89 | 36.5 | | 17 | 38 |
| FP406 | | 2" | 135 | 96.8 | 116 | 44.5 | | 21 | 51 |

BOLT KIT UNC

includes four cap screws
four spring washers
one 90 Duro 'O' Ring

Suits split or solid type

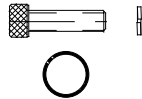


| P/Number | Thread |
|-------------|--------------|
| BKU-5/16CAP | 5/16 x 18tpi |
| BKU-3/8CAP | 3/8 x 16tpi |
| BKU-7/16CAP | 7/16 x 14tpi |
| BKU-1/2CAP | 1/2 x 13tpi |
| BKU-5/8CAP | 5/8 x 11tpi |
| BKU-3/4CAP | 3/4 x 10tpi |
| BKU-3/8CAP | 3/8 x 16tpi |
| BKU-7/16CAP | 7/16 x 14tpi |
| BKU-1/2CAP | 1/2 x 13tpi |

BOLT KIT METRIC

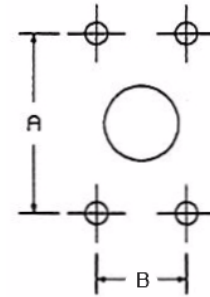
includes four cap screws
four spring washers
one 90 Duro 'O' Ring

Suits split or solid type



| P/Number | Thread |
|------------|------------|
| BKM-08CAP | M8 x 1.25 |
| BKM-10CAP | M10 x 1.5 |
| BKM-12CAP | M12 x 1.75 |
| BKM-14CAP | M14 x 2 |
| BKM-16CAP | M16 x 2 |
| BKM-20CAP | M20 x 2.5 |
| BKMH-10CAP | M10 x 1.5 |
| BKMH-12CAP | M12 x 1.75 |
| BKMH-16CAP | M16 x 2 |

FLANGE BOLT CENTRES



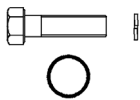
Code 61

| Dash Size | Inch-Size | A | B |
|-----------|-----------|-------|------|
| -08 | 1/2" | 38.1 | 17.5 |
| -12 | 3/4" | 47.6 | 22.3 |
| -16 | 1" | 52.4 | 26.2 |
| -20 | 1-1/4" | 58.7 | 30.2 |
| -24 | 1-1/2" | 69.8 | 35.7 |
| -32 | 2" | 77.8 | 42.9 |
| -40 | 2-1/2" | 88.9 | 50.8 |
| -48 | 3" | 106.4 | 61.9 |

BOLT KIT UNC

includes four hex head bolts
four spring washers
one 90 Duro 'O' Ring

Suits split type only

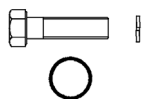


| P/Number | Thread |
|-------------|--------------|
| BKU-5/16HEX | 5/16 x 18tpi |
| BKU-3/8HEX | 3/8 x 16tpi |
| BKU-7/16HEX | 7/16 x 14tpi |
| BKU-1/2HEX | 1/2 x 13tpi |
| BKU-5/8HEX | 5/8 x 11tpi |
| BKU-3/4HEX | 3/4 x 10tpi |
| BKU-3/8HEX | 3/8 x 16tpi |
| BKU-7/16HEX | 7/16 x 14tpi |
| BKU-1/2HEX | 1/2 x 13tpi |

BOLT KIT METRIC

includes four hex head bolts
four spring washers
one 90 Duro 'O' Ring

Suits split type only



| P/Number | Thread |
|------------|------------|
| BKM-08HEX | M8 x 1.25 |
| BKM-10HEX | M10 x 1.5 |
| BKM-12HEX | M12 x 1.75 |
| BKM-14HEX | M14 x 2 |
| BKM-16HEX | M16 x 2 |
| BKM-20HEX | M20 x 2.5 |
| BKMH-10HEX | M10 x 1.5 |
| BKMH-12HEX | M12 x 1.75 |
| BKMH-16HEX | M16 x 2 |

Code 62

| Dash Size | Inch-Size | A | B |
|-----------|-----------|------|------|
| -08 | 1/2" | 40.5 | 18.2 |
| -12 | 3/4" | 50.8 | 23.8 |
| -16 | 1" | 57.2 | 27.8 |
| -20 | 1-1/4" | 66.7 | 31.8 |
| -24 | 1-1/2" | 79.4 | 36.5 |
| -32 | 2" | 96.8 | 44.5 |

NB: Choose cap screws only for solid flange blocks

Section 5 Accessories



S Series/Inline High Pressure Hydraulic Swivel Joints

Simplified plumbing, longer hose life, less down time, increased reliability and money saving. Designed for low-speed rotation. Working pressure 3,000psi.

MALE JIC TO MALE NPT

| Part No. | Barrel Thread JIC | Stem Thread NPT | Seal Kit |
|-------------|-------------------|-----------------|----------|
| S6J6-P4 | 9/16-18 | 1/4" | S6-1 |
| S8J10-P8 | 7/8-14 | 1/2" | S8-1 |
| S8J12-P12 | 1 1/16-12 | 3/4" | S8-1 |
| S16J16-P16 | 1 5/16-12 | 1" | S16-1 |
| *S20J20-P20 | 1 5/8-12 | 1 1/4" | S20-1 |



MALE JIC TO FEMALE JIC

| Part No. | Barrel Thread JIC | Stem Thread JIC | Seal Kit |
|--------------|-------------------|-----------------|----------|
| S6J6-JF6 | 9/16-18 | 9/16-18 | S6-1 |
| S6J8-JF8 | 3/4-16 | 3/4-16 | S6-1 |
| S8J10-JF10 | 7/8-14 | 7/8-14 | S8-1 |
| S8J12-JF12 | 1 1/16-12 | 1 1/16-12 | S8-1 |
| S16J16-JF16 | 1 5/16-12 | 1 5/16-12 | S16-1 |
| S20J20-JF20 | 1 5/8-12 | 1 5/8-12 | S20-1 |
| *S24J24-JF24 | 1 7/8-12 | 1 7/8-12 | S24-1 |



FEMALE NPT TO MALE NPT

| Part No. | Barrel Thread NPT | Stem Thread NPT | Seal Kit |
|-------------|-------------------|-----------------|----------|
| S6PF4-P4 | 1/4" | 1/4" | S6-1 |
| S6PF6-P6 | 3/8" | 3/8" | S6-1 |
| S8PF8-P8 | 1/2" | 1/2" | S8-1 |
| S8PF8-P12 | 1/2" | 3/4" | S8-1 |
| S8PF12-P12 | 3/4" | 3/4" | S8-1 |
| S16PF16-P16 | 1" | 1" | S16-1 |



FEMALE NPT TO FEMALE NPT

| Part No. | Barrel Thread NPT | Stem Thread NPT | Seal Kit |
|--------------|-------------------|-----------------|----------|
| S6PF4-PF4 | 1/4" | 1/4" | S6-1 |
| S6PF6-PF6 | 3/8" | 3/8" | S6-1 |
| S8PF8-PF8 | 1/2" | 1/2" | S8-1 |
| S8PF12-PF12 | 3/4" | 3/4" | S8-1 |
| S16PF16-PF16 | 1" | 1" | S16-1 |



S Series/Inline High Pressure Hydraulic Swivel Joints

Simplified plumbing, longer hose life, less down time, increased reliability and money saving. Designed for low-speed rotation. Working pressure 3,000psi.

MALE JIC TO MALE JIC

| Part No. | Barrel Thread JIC | Stem Thread JIC | Seal Kit |
|-------------|-------------------|-----------------|----------|
| 9S6J6-J6 | 9/16-18 | 9/16-18 | 9S6-1 |
| 9S6J8-J8 | 3/4-16 | 3/4-16 | 9S6-1 |
| 9S8J10-J10 | 7/8-14 | 7/8-14 | 9S8-1 |
| 9S12J12-J12 | 1 1/16-12 | 1 1/16-12 | 9S12-1 |
| 9S16J16-J16 | 1 5/16-12 | 1 5/16-12 | 9S16-1 |
| 9S20J20-J20 | 1 5/8-12 | 1 5/8-12 | 9S20-1 |



MALE JIC TO MALE NPT

| Part No. | Barrel Thread JIC | Stem Thread NPT | Seal Kit |
|-------------|-------------------|-----------------|----------|
| 9S6J6-P6 | 9/16-18 | 3/8" | 9S6-1 |
| 9S6J8-P6 | 3/4-16 | 3/8" | 9S6-1 |
| 9S8J8-P8 | 3/4-16 | 1/2" | 9S8-1 |
| 9S8J10-P8 | 7/8-14 | 1/2" | 9S8-1 |
| 9S12J12-P12 | 1 1/16-12 | 3/4" | 9S12-1 |
| 9S16J16-P16 | 1 5/16-12 | 1" | 9S16-1 |
| 9S20J20-P20 | 1 5/8-12 | 1 1/4" | 9S20-1 |



MALE JIC TO FEMALE NPT

| Part No. | Barrel Thread JIC | Stem Thread NPT | Seal Kit |
|--------------|-------------------|-----------------|----------|
| 9S6J6-PF6 | 9/16-18 | 3/8" | 9S6-1 |
| 9S6J8-PF6 | 3/4-16 | 3/8" | 9S6-1 |
| 9S8J8-PF8 | 3/4-16 | 1/2" | 9S8-1 |
| 9S8J10-PF8 | 7/8-14 | 1/2" | 9S8-1 |
| 9S12J12-PF12 | 1 1/16-12 | 3/4" | 9S12-1 |
| 9S16J16-PF16 | 1 5/16-12 | 1" | 9S16-1 |



MALE JIC TO MALE O'RING

| Part No. | Barrel Thread JIC | Stem Thread UNO | Seal Kit |
|-------------|-------------------|-----------------|----------|
| 9S6J6-O6 | 9/16-18 | 9/16-18 | 9S6-1 |
| 9S6J6-O8 | 9/16-18 | 3/4-16 | 9S6-1 |
| 9S6J8-O8 | 3/4-16 | 3/4-16 | 9S6-1 |
| 9S8J10-O10 | 7/8-14 | 7/8-14 | 9S8-1 |
| 9S12J12-O12 | 1 1/16-12 | 1 1/16-12 | 9S12-1 |
| 9S16J16-O16 | 1 5/16-12 | 1 5/16-12 | 9S16-1 |
| 9S20J20-O20 | 1 5/8-12 | 1 5/8-12 | 9S20-1 |



S Series/Inline High Pressure Hydraulic Swivel Joints

Simplified plumbing, longer hose life, less down time, increased reliability and money saving.
Designed for low-speed rotation. Working pressure 3,000psi.

FEMALE NPT TO MALE NPT

| Part No. | Barrel Thread NPT | Stem Thread NPT | Seal Kit |
|--------------|-------------------|-----------------|----------|
| 9S6PU4-P4 | 1/4" | 1/4" | 9S6-1 |
| 9S6PU6-P6 | 3/8" | 3/8" | 9S6-1 |
| 9S8PU8-P8 | 1/2" | 1/2" | 9S8-1 |
| 9S12PU12-P12 | 3/4" | 3/4" | 9S12-1 |
| 9S16PU16-P16 | 1" | 1" | 9S16-1 |
| 9S20PU20-P20 | 1 1/4" | 1 1/4" | 9S20-1 |



TEMA SWIVEL JOINTS



| Part No. | Port G BSPP | Port G1 BSPP | L | OD | HEX 1 | HEX 2 | A | MWP bar | Weight kg |
|----------|-------------|--------------|----|----|-------|-------|----|---------|-----------|
| 250 | 1/4" | 3/8" | 53 | 23 | 22 | 18 | 12 | 250 | 0.105 |
| 500 | 1/2" | 3/4" | 71 | 34 | 32 | 25 | 16 | 250 | 0.250 |
| 750 | 3/4" | 1" | 80 | 43 | 40 | 32 | 20 | 250 | 0.460 |
| 1000 | 1" | 1 1/4" | 86 | 53 | 50 | 38 | 22 | 250 | 0.700 |

The Tema Swivel Joint has very low torque even at max. working pressure, due to a balanced spindle seal.
The Tema Swivel Joint has been shocked tested under pressure from 0-250 bar

Walvoil Rotary Couplings

Rotary couplings are used to connect two hydraulic lines that are moving simultaneously in different directions. Rotations can either be alternating or continuous.

These couplings rotate on roller bearings and provide a perfect seal via special low friction seals. They can rotate under maximum pressure with low torque.

| Part No. | Barrel BSPP-F | Stem BSPP-M | Speed RPM | M.W.P. bar | Max. Flow l/min |
|----------|------------------|----------------|--------------|---------------|--------------------|
| GGIL01 | 1/4" | 1/4" | 500 | 400 | 25 |
| GGIL02 | 3/8" | 3/8" | 400 | 400 | 45 |
| GGIL03 | 1/2" | 1/2" | 370 | 360 | 80 |
| GGIL04 | 3/4" | 3/4" | 280 | 310 | 120 |
| GGIL05 | 1" | 1" | 230 | 280 | 150 |
| GGIL06 | 1-1/4" | 1-1/4" | 200 | 250 | 200 |
| GGIL07 | 1-1/2" | 1-1/2" | 170 | 210 | 250 |
| GGIL09 | 2" | 2" | 140 | 180 | 300 |



Inline Coupling

| Part No. | Barrel BSPP-F | Stem BSPP-M | Speed RPM | M.W.P. bar | Max. Flow l/min |
|----------|------------------|----------------|--------------|---------------|--------------------|
| GG9001 | 1/4" | 1/4" | 500 | 400 | 25 |
| GG9002 | 3/8" | 3/8" | 400 | 400 | 45 |
| GG9003 | 1/2" | 1/2" | 370 | 360 | 80 |
| GG9004 | 3/4" | 3/4" | 280 | 310 | 120 |
| GG9005 | 1" | 1" | 230 | 280 | 150 |
| GG9006 | 1-1/4" | 1-1/4" | 200 | 250 | 200 |
| GG9007 | 1-1/2" | 1-1/2" | 170 | 210 | 250 |
| GG9009 | 2" | 2" | 140 | 180 | 300 |



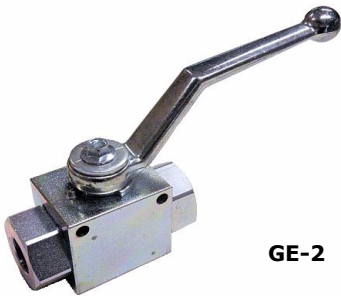
90° Coupling

NB: When required - order separately a dowty seal to suit the BSPP threads (eg R04B-08).

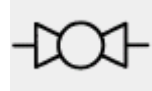
BALL VALVES

GE-2 Series

with Mounting Holes



GE-2



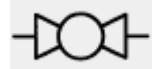
2 PORT MODELS
Carbon Steel

| Carbon Steel Part No. | Ports BSPP | MWP bar | Bore mm | Stainless Steel Part No. |
|-----------------------|------------|---------|---------|--------------------------|
| GE-2-1/8 | 1/8" | 500 | 4 | - |
| GE-2-1/4 | 1/4" | 500 | 6 | GE-2-1/4-SS |
| GE-2-3/8 | 3/8" | 500 | 10 | GE-2-3/8-SS |
| GE-2-1/2 | 1/2" | 500 | 13 | GE-2-1/2-SS |
| GE-2-3/4 | 3/4" | 420 | 20 | GE-2-3/4-SS |
| GE-2-1 | 1" | 350 | 25 | GE-2-1-SS |
| GE-2-1-1/4R | 1 1/4" | 350 | 25 | - |

GB1-2 Series



GB1-2

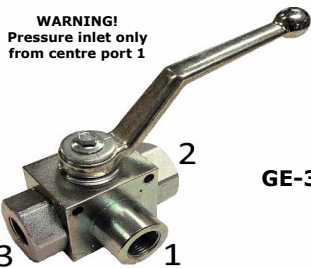


2 PORT MODELS
Carbon Steel

| Carbon Steel Part No. | Ports BSPP | MWP bar | Bore mm |
|-----------------------|------------|---------|---------|
| GB1-2-1-1/4 | 1-1/4" | 420 | 32 |
| GB1-2-1-1/2 | 1-1/2" | | 40 |
| GB1-2-2 | 2" | | 50 |

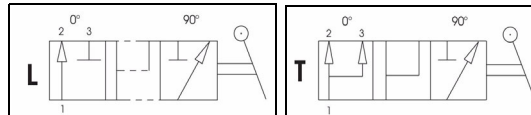
GE-3 Series

with Mounting Holes



GE-3

WARNING!
Pressure inlet only
from centre port 1



3 PORT MODELS
Carbon Steel

| L Type Part No. | Ports BSPP | MWP bar | Bore mm | T Type Part No. |
|-----------------|------------|---------|---------|-----------------|
| GE-3-1/4-L | 1/4" | 500 | 6 | GE-3-1/4-T |
| GE-3-3/8-L | 3/8" | 500 | 10 | GE-3-3/8-T |
| GE-3-1/2-L | 1/2" | 500 | 13 | GE-3-1/2-T |
| GE-3-3/4-L | 3/4" | 420 | 20 | GE-3-3/4-T |
| GE-3-1-L | 1" | 420 | 25 | GE-3-1-T |
| GE-3-1-1/4R-L | 1-1/4" | 350 | 25 | GE-3-1-1/4R-T |

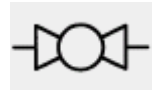
VBB Series

Low pressure ball valves suitable for use on suction lines



Standard

| Part No. | Ports BSPP | MWP bar |
|----------|------------|---------|
| VBB08 | 1/4" | 25 |
| VBB10 | 3/8" | 25 |
| VBB15 | 1/2" | 25 |
| VBB20 | 3/4" | 25 |
| VBB25 | 1" | 25 |
| VBB32 | 1 1/4" | 25 |
| VBB40 | 1 1/2" | 25 |
| VBB50 | 2" | 25 |
| VBB65 | 2 1/2" | 25 |
| VBB80 | 3" | 25 |



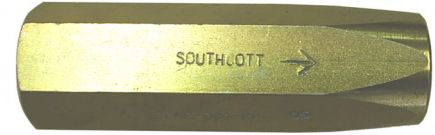
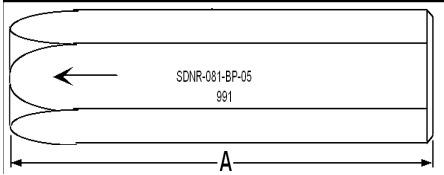
Brass

Lockable

| Part No. | Ports BSPP | MWP bar |
|----------|------------|---------|
| VBBD15L | 1/2" | 25 |
| VBBD20L | 3/4" | 25 |
| VBBD25L | 1" | 25 |
| VBBD32L | 1 1/4" | 25 |
| VBBD40L | 1 1/2" | 25 |
| VBBD50L | 2" | 25 |

CHECK VALVES

SDNR Series



| Part No. | Thread | Rated Flow Delta P at 2 bar | | Max. Pressure | | Cracking Pressure ** | | Dimensions | |
|----------------|--------|-----------------------------------|-------|---------------|------|-------------------------|---------------------|------------|------|
| | | BSPP | L/min | US GPM | bar | psi | 05 | 65 | A |
| SDNR-041-BP-** | 1/4" | 13 | 3.5 | 425 | 6160 | 5 psi (0.34 bar) | 65 psi (4.4 bar) | 66.7 | 22.2 |
| SDNR-061-BP-** | 3/8" | 25 | 6.5 | 300 | 4350 | | | 79.4 | 24.0 |
| SDNR-081-BP-** | 1/2" | 60 | 16 | 300 | 4350 | | | 98.4 | 28.5 |
| SDNR-121-BP-** | 3/4" | 120 | 32 | 250 | 3625 | | | 104.0 | 38.1 |
| SDNR-161-BP-** | 1" | 200 | 54 | 245 | 3550 | | | 127.0 | 47.6 |
| SDNR-201-BP-** | 1 1/4" | 300 | 80 | 225 | 3260 | | | 152.4 | 55.0 |
| SDNR-241-BP-** | 1 1/2" | 400 | 108 | 200 | 2900 | | | 175.0 | 65.0 |
| SDNR-321-BP-** | 2" | 700 | 187 | 130 | 1880 | | | 222.3 | 75.0 |

NB: Replace ** in part number with cracking pressure

Other cracking pressures available on request

VU Series



| Part No. | Thread | Rated Flow Delta P @ 2 bar | | Max. Pressure | | Cracking Pressure |
|--------------|--------|-------------------------------|-------|---------------|------|----------------------|
| | | BSPP | L/min | US GPM | bar | |
| VU-14F-14F | 1/4" | 17 | 4.5 | 500 | 7250 | 0.35 bar (5 psi) |
| VU-38F-38F | 3/8" | 30 | 7.9 | 270 | 3915 | |
| VU-12F-12F | 1/2" | 90 | 23.7 | 350 | 5076 | |
| VU-34F-34F | 3/4" | 140 | 37.0 | 250 | 3625 | |
| VU-1F-1F | 1" | 200 | 52.8 | 250 | 3625 | |
| VU-114F-114F | 1-1/4" | 300 | 79.2 | 250 | 3625 | |
| VU-112F-112F | 1-1/2" | 500 | 132.0 | 200 | 2900 | |
| VU-2F-2F | 2" | 700 | 184.0 | 130 | 1885 | |

Other spring cracking pressures available on request: suffix C = 14.5psi, L = 65psi, U = 116psi (for sizes 1/2"-1-1/4").
These check valves are also available in stainless steel.

Section 5 Accessories

Glycerine Filled Dual Scale



Panel Mount
(inc Panel Mt Kit)



Bottom Entry

Digital



Digital

| Panel Mount - Rear Entry - Dual Scale | | | |
|---|------|-----|------|
| 63mm Diameter - Connection = 1/4" BSPP | | | |
| Part No. | Diam | bar | psi |
| PG63PM-010 | 63 | 10 | 150 |
| PG63PM-060 | 63 | 60 | 850 |
| PG63PM-100 | 63 | 100 | 1450 |
| PG63PM-160 | 63 | 160 | 2300 |
| PG63PM-250 | 63 | 250 | 3600 |
| PG63PM-400 | 63 | 400 | 5800 |
| 100mm Diameter - Connection = 1/2" BSPP | | | |
| PG100PM-010 | 100 | 10 | 150 |
| PG100PM-060 | 100 | 60 | 850 |
| PG100PM-100 | 100 | 100 | 1450 |
| PG100PM-160 | 100 | 160 | 2300 |
| PG100PM-250 | 100 | 250 | 3600 |
| PG100PM-400 | 100 | 400 | 5800 |

| Line Mount - Bottom Entry - Dual Scale | | | |
|---|-----------------|-----|------|
| 63mm Diameter - Connection = 1/4" BSPP | | | |
| Part No. | Diam | bar | psi |
| PG63BE-010 | 63 | 10 | 150 |
| PG63BE-060 | 63 | 60 | 850 |
| PG63BE-100 | 63 | 100 | 1450 |
| PG63BE-160 | 63 | 160 | 2300 |
| PG63BE-250 | 63 | 250 | 3600 |
| PG63BE-400 | 63 | 400 | 5800 |
| PG63BE-600 | 63 | 600 | 8700 |
| PG63BE-BOOT | PROTECTIVE BOOT | | |
| 100mm Diameter - Connection = 1/2" BSPP | | | |
| PG100BE-010 | 100 | 10 | 150 |
| PG100BE-060 | 100 | 60 | 850 |
| PG100BE-100 | 100 | 100 | 1450 |
| PG100BE-160 | 100 | 160 | 2300 |
| PG100BE-250 | 100 | 250 | 3600 |
| PG100BE-400 | 100 | 400 | 5800 |
| PG100BE-600 | 100 | 600 | 8700 |
| PG100BE-BOOT | PROTECTIVE BOOT | | |
| Line Mount - Bottom Entry - Digital - 1/4" BSPP | | | |
| PG80BE-600 | 80 | 600 | 8700 |
| PG80BE-BOOT | PROTECTIVE BOOT | | |

Pressure Gauge Isolators

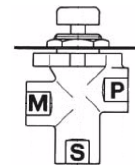
| Part No. | Port BSPP | Max. Pressure bar | Type |
|----------|-----------|-------------------|--------------|
| EMIL01A | 1/4" | 350 | A 180° |
| EM9001A | 1/4" | 350 | A 90° |
| HB1-PA | 1/4" | 400 | Push To Read |



EM9001A



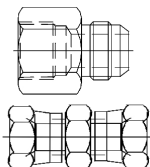
EMIL01A



HB1-PA

Gauge Adaptors

| Part No. | Thread | Thread |
|--------------|-------------------------------|------------|
| CP20-0407G | 1/4"BSPP-F | 7/16"JIC-M |
| CP20-0409G | 1/4"BSPP-F | 9/16"JIC-M |
| CP20-0809G | 1/2"BSPP-F | 9/16"JIC-M |
| CP28-0409G | 1/4"BSPP-F | 9/16"JIC-F |
| CS25-0707 | 7/16"JIC-F | 7/16"JIC-F |
| R03-04 GAUGE | O-Ring For 1/4" Gauge Adaptor | |



Gauge Protective Boot

| Part No. | Diameter |
|--------------|----------|
| PG63BE-BOOT | 63mm |
| PG100BE-BOOT | 100mm |
| PG80BE-BOOT | 80mm |



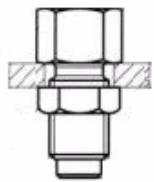
TEST POINTS - M16x2 (Test 20) SERIES



| TEST POINT COUPLNG 'A' TYPE M16X2 SERIES | | |
|--|---------------|---------|
| Part No. | Male Thread | MWP bar |
| 621.01.202.26 | 1/8" BSPP | 400 |
| 621.01.204.26 | 1/4" BSPP | 630 |
| 621.01.206.26 | 3/8"BSPP | 630 |
| 621.01.202.36 | 1/8" BSPT | 400 |
| 621.01.204.36 | 1/4" BSPT | 630 |
| 621.01.302.36 | 1/8" NPT | 400 |
| 621.01.304.36 | 1/4" NPT | 630 |
| 621.01.404.06 | 7/16" UNO | 630 |
| 621.01.406.06 | 9/16" UNO | 630 |
| 621.01.010.26 | M10x1 | 400 |
| 621.01.012.26 | M12x1.5 | 630 |
| 621.01.014.26 | M14x1.5 | 630 |
| Part No. | Female Thread | MWP bar |
| 621.07.204.86 | 1/4"BSPP-F | 630 |
| 621.05.404.06 | 7/16"JIC-F | 450 |
| 621.05.406.06 | 9/16"JIC-F | 350 |
| 621.05.408.06 | 3/4"JIC-F | 350 |

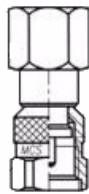
Style 1

Style 2



A

B

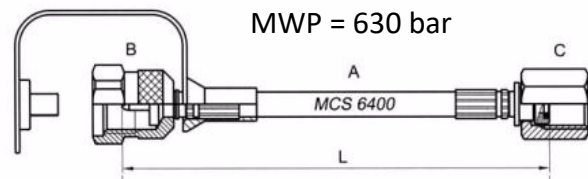


TEST POINT TO GAUGE ADAPTORS

| Part No. | Style | THREAD A | THREAD B | MWP bar |
|-----------------|-------|-------------|----------------|---------|
| 620.08.204.00.1 | 1 | 1/4" BSPP-F | M16x2 (M-B/HD) | 630 |
| 620.08.208.00.1 | 1 | 1/2" BSPP-F | M16x2 (M-B/HD) | 630 |
| 620.09.204.00.1 | 2 | 1/4" BSPP-F | M16x2 (F) | 630 |
| 620.09.208.00.1 | 2 | 1/2" BSPP-F | M16x2 (F) | 630 |

TEST POINT HOSES 2mm ID

64 - 10.162 - 50.204 - 200
 A B C L



| HOSE ASSEMBLIES 630 bar MWP |
|-------------------------------------|
| Part No. (includes length in mm) |
| 64-10.162-50.204-200 |
| 64-10.162-50.204-300 |
| 64-10.162-50.204-400 |
| 64-10.162-50.204-500 |
| 64-10.162-50.204-600 |
| 64-10.162-50.204-800 |
| 64-10.162-50.204-1000 |
| 64-10.162-50.204-1500 |
| 64-10.162-50.204-2000 |
| 64-10.162-50.204-2500 |
| 64-10.162-50.204-3000 |

| HOSE & COUPLING OPTIONS | |
|-------------------------|-----------------------|
| Part No. | Thread |
| 6400 | DN2 Hose 2mm ID |
| 00.002 | Ferrule |
| 801.10.162.00 | M16x2 (Test 20) |
| 801.60.204.00 | 1/4"BSPP-F (60° Seat) |
| 801.50.204.00 | 1/4" BSPP-F(gauge) |
| 801.55.204.00 | 1/4"BSPP-F-90°(gauge) |
| 801.50.208.00 | 1/2" BSPP-F (gauge) |
| 801.60.404.00 | 7/16" JIC-F |
| 801.60.406.00 | 9/16" JIC-F |

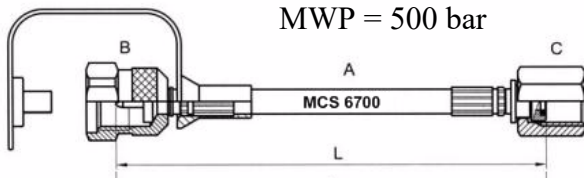
NB: Use the highlighted part of the coupling Part No. in the hose assembly Part No.

NB: The listed hose assemblies have the 10.162 coupling at one end, and the 50.204 coupling at the other. For other options delete the listed codes from the model number and add the code for the desired thread type.

Section 5 Accessories

TEST POINT HOSES 4mm ID

67 - 10.162 - 60.204 - 200
A B C L



| HOSE & COUPLING OPTIONS | |
|-------------------------|------------------------|
| Part No. | Thread |
| 6700 | DN4 Hose 4mm ID |
| 00.004 | Ferrule |
| 804.10.162.00 | M16x2 (Test 20) |
| 804.60.204.00 | 1/4" BSPP-F (60° Seat) |
| 804.50.204.00 | 1/4" BSPP-F(gauge) |
| 804.80.302.00 | 1/8" NPT-Male |
| 804.60.404.00 | 7/16" JIC-F |

NB: Use the highlighted part of the coupling part number in the hose assembly part number

TEST POINT TEES

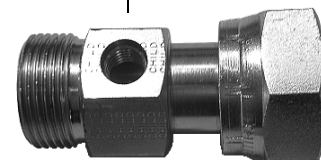
Southcott test point tees provide a convenient method of taking pressure readings from any point in a hydraulic system. Compact in size, they can be fitted as a temporary or permanent installation at a cost-effective price.

| JIC | | | |
|-------------|---------------|---------------|-------------------|
| Part No. | Male Thread | Female Thread | Test Point Thread |
| C27G-070707 | 7/16" JIC-M | 7/16" JIC-F | 7/16" UNO-F |
| C27G-090907 | 9/16" JIC-M | 9/16" JIC-F | 7/16" UNO-F |
| C27G-121207 | 3/4" JIC-M | 3/4" JIC-F | 7/16" UNO-F |
| C27G-141407 | 7/8" JIC-M | 7/8" JIC-F | 7/16" UNO-F |
| C27G-171707 | 1-1/16" JIC-M | 1-1/16" JIC-F | 7/16" UNO-F |
| C27G-212107 | 1-5/16" JIC-M | 1-5/16" JIC-F | 7/16" UNO-F |
| C27G-262607 | 1-5/8" JIC-M | 1-5/8" JIC-F | 7/16" UNO-F |

| BSPP | | | |
|--------------|---------------|---------------|-------------------|
| Part No. | Male Thread | Female Thread | Test Point Thread |
| CP24G-040407 | 1/4" BSPP-M | 1/4" BSPP-F | 7/16" UNO-F |
| CP24G-060607 | 3/8" BSPP-M | 3/8" BSPP-F | 7/16" UNO-F |
| CP24G-080807 | 1/2" BSPP-M | 1/2" BSPP-F | 7/16" UNO-F |
| CP24G-121207 | 3/4" BSPP-M | 3/4" BSPP-F | 7/16" UNO-F |
| CP24G-161607 | 1" BSPP-M | 1" BSPP-F | 7/16" UNO-F |
| CP24G-202007 | 1-1/4" BSPP-M | 1-1/4" BSPP-F | 7/16" UNO-F |

| ORFS | | | |
|-------------|----------------|----------------|-------------------|
| Part No. | Male Thread | Female Thread | Test Point Thread |
| F27G-090907 | 9/16 UNF-M | 9/16 UNF-F | 7/16" UNO-F |
| F27G-111107 | 11/16" UNF-M | 11/16" UNF-F | 7/16" UNO-F |
| F27G-131307 | 13/16" UNF-M | 13/16" UNF-F | 7/16" UNO-F |
| F27G-161607 | 1" UNF-M | 1" UNF-F | 7/16" UNO-F |
| F27G-191907 | 1-3/16" UNF-M | 1-3/16" UNF-F | 7/16" UNO-F |
| F27G-232307 | 1-7/16" UNF-M | 1-7/16" UNF-F | 7/16" UNO-F |
| F27G-272707 | 1-11/16" UNF-M | 1-11/16" UNF-F | 7/16" UNO-F |

USA Test Point European Test Point Test 20 Port Plug
DF04-1/14SAE-M 621.01.404.06 C77-07



HYDRAULIC TUBE



Cold Drawn Seamless Tube - Annealed ASTM A179
 6.0m Lengths
 Supplied in Full Lengths Only.
 Other Sizes and Gauges are Available on Request

| Size | Working Pressure With 3:1 Safety Factor | | Wall Dim. | Weight per 6m Length | Unplated Per 6m Length | Zinc Plated Per 6m Length |
|---------------------|---|------|-----------|----------------------|------------------------|---------------------------|
| | bar | psi | | | | |
| 1/4" x 20G x 6.0m | 311 | 4512 | 0.91 | 0.73 | T0420 | T0420P |
| 3/8" x 16G x 6.0m | 369 | 5348 | 1.63 | 1.94 | T0616 | T0616P |
| 3/8" X 18G x 6.0m | 277 | 4011 | 1.22 | 1.53 | T0618 | T0618P |
| 1/2" x 16G x 6.0m | 277 | 4011 | 1.63 | 2.75 | T0816 | T0816P |
| 1/2" x 18G x 6.0m | 207 | 3008 | 1.22 | 2.10 | T0818 | T0818P |
| 5/8" x 14G x 6.0m | 277 | 4011 | 2.03 | 4.23 | T1014 | T1014P |
| 5/8" x 16G x 6.0m | 221 | 3209 | 1.63 | 3.48 | T1016 | T1016P |
| 3/4" x 12G x 6.0m | 299 | 4342 | 2.64 | 6.51 | T1212 | T1212P |
| 3/4" x 14G x 6.0m | 230 | 3342 | 2.03 | 5.19 | T1214 | T1214P |
| 3/4" x 16G x 6.0m | 184 | 2674 | 1.63 | 4.27 | T1216 | T1216P |
| 1" x 10G x 6.0m | 277 | 4011 | 3.25 | 10.83 | T1610 | T1610P |
| 1" x 12G x 6.0m | 236 | 3415 | 2.77 | 9.04 | T1612 | T1612P |
| 1" x 14G x 6.0m | 173 | 2507 | 2.03 | 7.14 | T1614 | T1614P |
| 1" x 16G x 6.0m | 138 | 2005 | 1.63 | 5.83 | T1616 | T1616P |
| 1-1/4" x 10G x 6.0m | 221 | 3209 | 3.25 | 13.93 | T2010 | T2010P |
| 1-1/2" x 10G x 6.0m | 184 | 2674 | 3.25 | 17.02 | T2410 | T2410P |
| 2" x 7G x 6.0m | 190 | 2757 | 4.47 | 31.17 | T3207 | N/A |

NB: Pricing per 6.0m length.

NB: The above working pressure rating is based on "BARLOWS" Formula

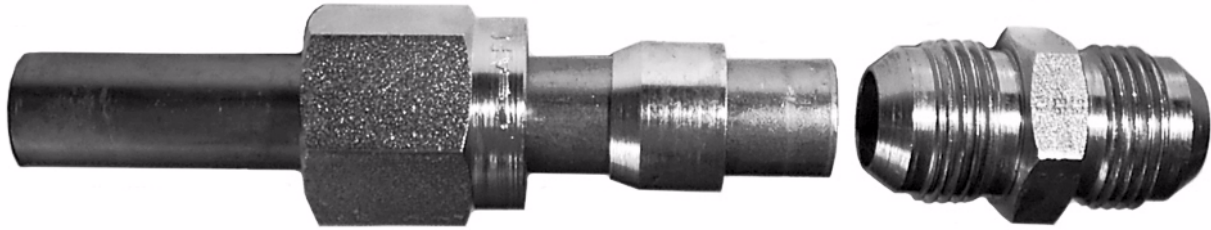
$P = 2ST/D$ Where P = Burst Pressure (PSI)

S = UTS (47000)

T = Wall Thickness (inches)

D = O.D. of tube (inches)

VERSA-FLARE FLARELESS TUBE COMPRESSION FITTINGS



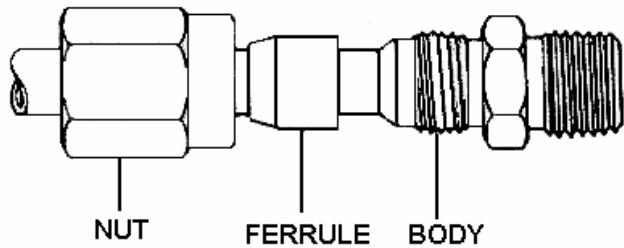
Assembly Instructions

INITIAL ASSEMBLY

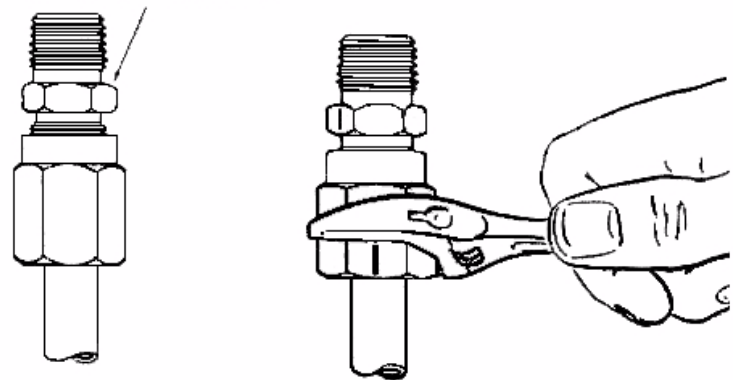
1. Cut the tube squarely and deburr the end internally and externally. Clean all dirt and grit from I.D. and O.D.
2. Slide the nut and then the sleeve on to the tube. Make sure the tapered end of the sleeve points toward the nut.
3. **Lubricate all mating surfaces of nut, sleeve and body with heavy lubricant.**
4. Place end of tube against standard JIC 37° flare body.
5. Slide the sleeve and nut against body and tighten the nut onto the body hand tight. Mark the nut in relation to the body for location.
6. Hold tube against body and tighten nut total of 1-1/4 turns for sizes 1/4" to 5/8" and 1-1/2 turns for sizes 3/4" to 1-1/4"

REASSEMBLY

1. Slide nut against the body and tighten to hand tight. Mark the nut for location.
2. Tighten nut a minimum of one hex flat. The Versa Flare Flareless Tube fitting is designed for 10 reassemblies.



TIGHTEN WITH HAND



| TUBE OD | JIC THREAD | NUT | SLEEVE |
|---------|------------|-------|--------|
| 1/4" | 7/16" | VN-04 | VS-04 |
| 3/8" | 9/16" | VN-06 | VS-06 |
| 1/2" | 3/4" | VN-08 | VS-08 |
| 5/8" | 7/8" | VN-10 | VS-10 |
| 3/4" | 1 1/16" | VN-12 | VS-12 |
| 1" | 1 5/16" | VN-16 | VS-16 |
| 1 1/4" | 1 5/8" | VN-20 | VS-20 |

TUBE & HOSE CLAMPS



Single Clamps

- Complete Clamps
- Sub Components



Twin Clamps

- Complete Clamps
- Sub Components



Heavy Single Clamps

- Complete Clamps
- Sub Components

Section 5 Accessories



STANDARD SERIES CLAMPS



Clamp Shells

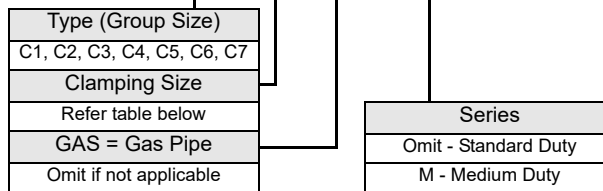


Standard Duty Clamp



Medium Duty Clamp

C2 - 1/8 GAS - M



| Shell Size mm | Standard Clamp Part # | Medium Clamp Part # | Shell Only Part # | Shell Size mm | Standard Clamp Part # | Medium Clamp Part # | Shell Only Part # | Shell Size mm | Standard Clamp Part # | Medium Clamp Part # | Shell Only Part # |
|------------------------------------|-----------------------|---------------------|-------------------|----------------------|-----------------------|---------------------|-------------------|--|-----------------------|---------------------|-------------------|
| Group Size C1 | | | | Group Size C3 | | | | Group Size C6 | | | |
| 6.0 | C1-6 | C1-6-M | C1S-6 | 13.5 | C3-1/4GAS | C3-1/4GAS-M | C3S-1/4GAS | 33.7 | C6-1GAS | C6-1GAS-M | C6S-1GAS |
| 6.4 | C1-1/4 | C1-1/4-M | C1S-1/4 | 14.0 | C3-14 | C3-14-M | C3S-14 | 35.0 | C6-35 | C6-35-M | C6S-35 |
| 7.9 | C1-5/16 | C1-5/16-M | C1S-5/16 | 15.0 | C3-15 | C3-15-M | C3S-15 | 38.0 | C6-38 | C6-38-M | C6S-38 |
| 8.0 | C1-8 | C1-8-M | C1S-8 | 15.9 | C3-5/8 | C3-5/8-M | C3S-5/8 | 38.0 | C6-1-1/2 | C6-1-1/2-M | C6S-1-1/2 |
| 9.5 | C1-3/8 | C1-3/8-M | C1S-3/8 | 16.0 | C3-16 | C3-16-M | C3S-16 | 40.0 | C6-40 | C6-40-M | C6S-40 |
| 10.0 | C1-10 | C1-10-M | C1S-10 | 17.2 | C3-3/8GAS | C3-3/8GAS-M | C3S-3/8GAS | 42.0 | C6-42 | C6-42-M | C6S-42 |
| 12.0 | C1-12 | C1-12-M | C1S-12 | 18.0 | C3-18 | C3-18-M | C3S-18 | 42.4 | C6-1-1/4GAS | C6-1-1/4GAS-M | C6S-1-1/4GAS |
| 12.7 | C1-1/2 | C1-1/2-M | C1S-1/2 | Group Size C4 | | | | 45.0 | C6-45 | C6-45-M | C6S-45 |
| Group Size C2 | | | | 19.0 | C4-3/4 | C4-3/4-M | C4S-3/4 | Group Size C7 | | | |
| 6.0 | C2-6 | C2-6-M | C2S-6 | 20.0 | C4-20 | C4-20-M | C4S-20 | 44.5 | C7-1-3/4 | C7-1-3/4-M | C7S-1-3/4 |
| 6.4 | C2-1/4 | C2-1/4-M | C2S-1/4 | 21.3 | C4-1/2GAS | C4-1/2GAS-M | C4S-1/2GAS | 45.0 | C7-45 | C7-45-M | C7S-45 |
| 7.9 | C2-5/16 | C2-5/16-M | C2S-5/16 | 22.0 | C4-22 | C4-22-M | C4S-22 | 48.3 | C7-1-1/2GAS | C7-1-1/2GAS-M | C7S-1-1/2GAS |
| 8.0 | C2-8 | C2-8-M | C2S-8 | 23.0 | C4-23 | C4-23-M | C4S-23 | 50.0 | C7-50 | C7-50-M | C7S-50 |
| 9.5 | C2-3/8 | C2-3/8-M | C2S-3/8 | 25.0 | C4-25 | C4-25-M | C4S-25 | 50.8 | C7-2 | C7-2-M | C7S-2 |
| 10.0 | C2-10 | C2-10-M | C2S-10 | 25.4 | C4-1 | C4-1-M | C4S-1 | 53.0 | C7-53 | C7-53-M | C7S-53 |
| 10.3 | C2-1/8GAS | C2-1/8GAS-M | C2S-1/8GAS | Group Size C5 | | | | 54.0 | C7-54 | C7-54-M | C7S-54 |
| 12.0 | C2-12 | C2-12-M | C2S-12 | 26.9 | C5-3/4GAS | C5-3/4GAS-M | C5S-3/4GAS | *Standard Duty Clamps include cap screw & washers *Medium Duty Clamps include top plate & hex bolts | | | |
| 12.7 | C2-1/2 | C2-1/2-M | C2S-1/2 | 28.0 | C5-28 | C5-28-M | C5S-28 | | | | |
| *Shell Only part number = 2 Halves | | | | 30.0 | C5-30 | C5-30-M | C5S-30 | | | | |
| | | | | 31.8 | C5-1/14 | C5-1/14-M | C5S-1/14 | | | | |
| | | | | 32.0 | C5-32 | C5-32-M | C5S-32 | | | | |

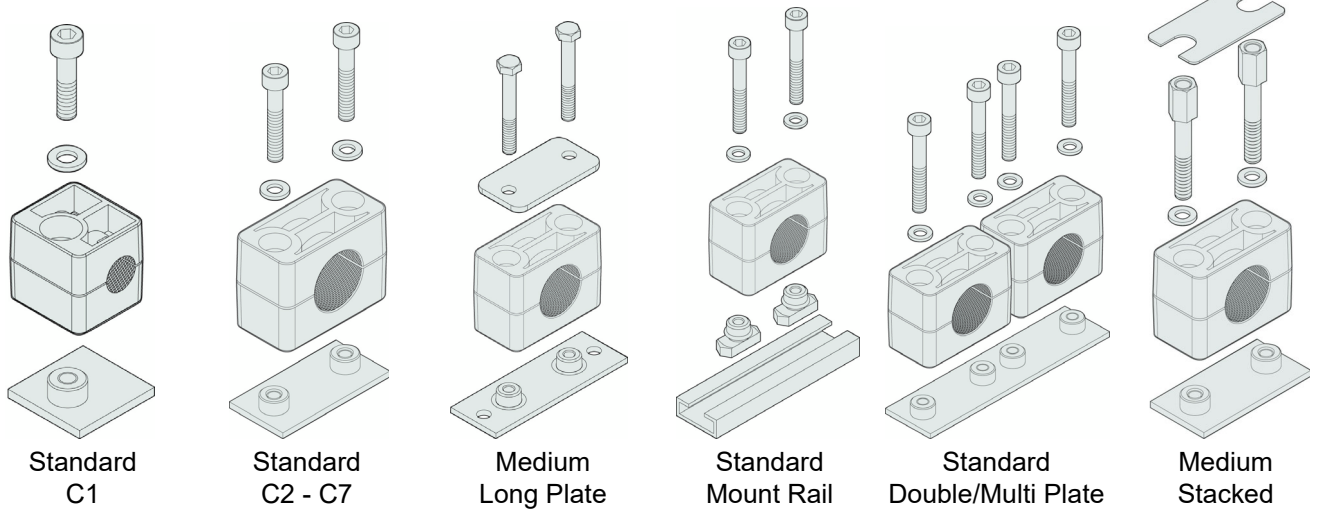
Section 5

Accessories

STANDARD SERIES CLAMP COMPONENTS

| Clamp Group Size | Clam Shell 2 Halves | Plate Single | Plate Long | Plate Double | Plate Multi | Top Plate | Locking Plate |
|------------------|------------------------|---------------------|-------------------|---------------------|--------------------|------------------|----------------------|
| 1 | | | | | | | |
| 2 - 7 | | | | | | | |
| Group Size | Clamp Shell Part # | Plate Single Part # | Plate Long Part # | Plate Double Part # | Plate Multi Part # | Top Plate Part # | Locking Plate Part # |
| 1 | Refer to previous page | P1 | PL1 | PD1 | PM1 (10 station) | PS1 | PB1 |
| 2 | | P2 | PL2 | PD2 | PM2 (10 station) | PS2 | PB2 |
| 3 | | P3 | PL3 | PD3 | PM3 (10 station) | PS3 | PB3 |
| 4 | | P4 | PL4 | PD4 | PM4 (10 station) | PS4 | PB4 |
| 5 | | P5 | PL5 | PD5 | PM5 (5 station) | PS5 | PB5 |
| 6 | | P6 | PL6 | PD6 | PM6 (5 station) | PS6 | PB6 |
| 7 | | P7 | PL7 | PD7 | PM7 (5 station) | PS7 | PB7 |

| Clamp Group Size | Mounting Rail | Rail Nut | Hex Bolt 6mm | Cap Screw 6mm | Stacking Bolt | Flat Washer |
|------------------|----------------------|-----------------|--------------------------------------|---|----------------------|--------------------|
| 1 - 7 | 2 Metre Length | | Use with Top Plate (Medium Duty) | Use without Top Plate (Standard Duty) | | |
| Group Size | Mounting Rail Part # | Rail Nut Part # | Hex Bolt Part # | Cap Screw Part # | Stacking Bolt Part # | Flat Washer Part # |
| 1 | BB | DF6 | VE-1/2 | S-C1/C2 | VA-1/2 | RP |
| 2 | | | VE3 | S-C3 | VA-3 | |
| 3 | | | VE4 | S-C4 | VA-4 | |
| 4 | | | VE5 | S-C5 | VA-5 | |
| 5 | | | VE6 | S-C6 | VA-6 | |
| 6 | | | VE7 | S-C7 | VA-7 | |
| 7 | | | | | | |



Section 5 Accessories



TWIN SERIES CLAMPS



Clamp Shells



Complete Clamp

CF2 - 1/2 - 1/2 GAS

| |
|-------------------------|
| Type (Group Size) |
| CF1, CF2, CF3, CF4, CF5 |
| Clamping Size |
| Refer table below |
| GAS = Gas Pipe |
| Omit if not applicable |

| Shell Size mm | Complete Clamp Part # | Shell Only Part # | Shell Size mm | Complete Clamp Part # | Shell Only Part # |
|------------------------------------|-----------------------|-------------------|-----------------------|-----------------------|---------------------|
| Group Size CF1 | | | Group Size CF3 | | |
| 6.0 - 6.0 | CF1-6-6 | CF1S-6-6 | 19.0 - 19.0 | CF3-3/4-3/4 | CF3S-3/4-3/4 |
| 6.4 - 6.4 | CF1-1/4-1/4 | CF1S-1/4-1/4 | 20.0 - 20.0 | CF3-20-20 | CF3S-20-20 |
| 8.0 - 8.0 | CF1-8-8 | CF1S-8-8 | 21.3 - 21.3 | CF3-1/2-1/2GAS | CF3S-1/2-1/2GAS |
| 9.5 - 9.5 | CF1-3/8-3/8 | CF1S-3/8-3/8 | 22.0 - 22.0 | CF3-22-22 | CF3S-22-22 |
| 10.0 - 10.0 | CF1-10-10 | CF1S-10-10 | 25.0 - 25.0 | CF3-25-25 | CF3S-25-25 |
| 12.0 - 12.0 | CF1-12-12 | CF1S-12-12 | 25.4 - 25.4 | CF3-1-1 | CF3S-1-1 |
| 12.7 - 12.7 | CF1-1/2-1/2 | CF1S-1/2-1/2 | Group Size CF4 | | |
| Group Size CF2 | | | 26.0 - 26.0 | CF4-26-26 | CF4S-26-26 |
| 12.7 - 12.7 | CF2-1/2-1/2 | CF2S-1/2-1/2 | 26.9 - 26.9 | CF4-3/4-3/4GAS | CF4S-3/4-3/4GAS |
| 13.5 - 13.5 | CF2-1/4-1/4GAS | CF2S-1/4-1/4GAS | 28.0 - 28.0 | CF4-28-28 | CF4S-28-28 |
| 14.0 - 14.0 | CF2-14-14 | CF2S-14-14 | 30.0 - 30.0 | CF4-30-30 | CF4S-30-30 |
| 15.0 - 15.0 | CF2-15-15 | CF2S-15-15 | Group Size CF5 | | |
| 15.9 - 15.9 | CF2-5/8-5/8 | CF2S-5/8-5/8 | 31.75 - 31.75 | CF5-1-1/4-1-1/4 | CF5S-1-1/4-1-1/4 |
| 16.0 - 16.0 | CF2-16-16 | CF2S-16-16 | 33.7 - 33.7 | CF5-1-1GAS | CF5S-1-1GAS |
| 17.2 - 17.2 | CF2-3/8-3/8GAS | CF2S-3/8-3/8GAS | 35.0 - 35.0 | CF5-35-35 | CF5S-35-35 |
| 18.0 - 18.0 | CF2-18-18 | CF2S-18-18 | 38.0 - 38.0 | CF5-38-38 | CF5S-38-38 |
| *Shell Only part number = 2 halves | | | 38.1 - 38.1 | CF5-1-1/2-1-1/2 | CF5S-1-1/2-1-1/2 |
| | | | 42.0 - 42.0 | CF5-42-42 | CF5S-42-42 |
| | | | 42.4 - 42.4 | CF5-1-1/4-1-1/4GAS | CF5S-1-1/4-1-1/4GAS |
| | | | | | |

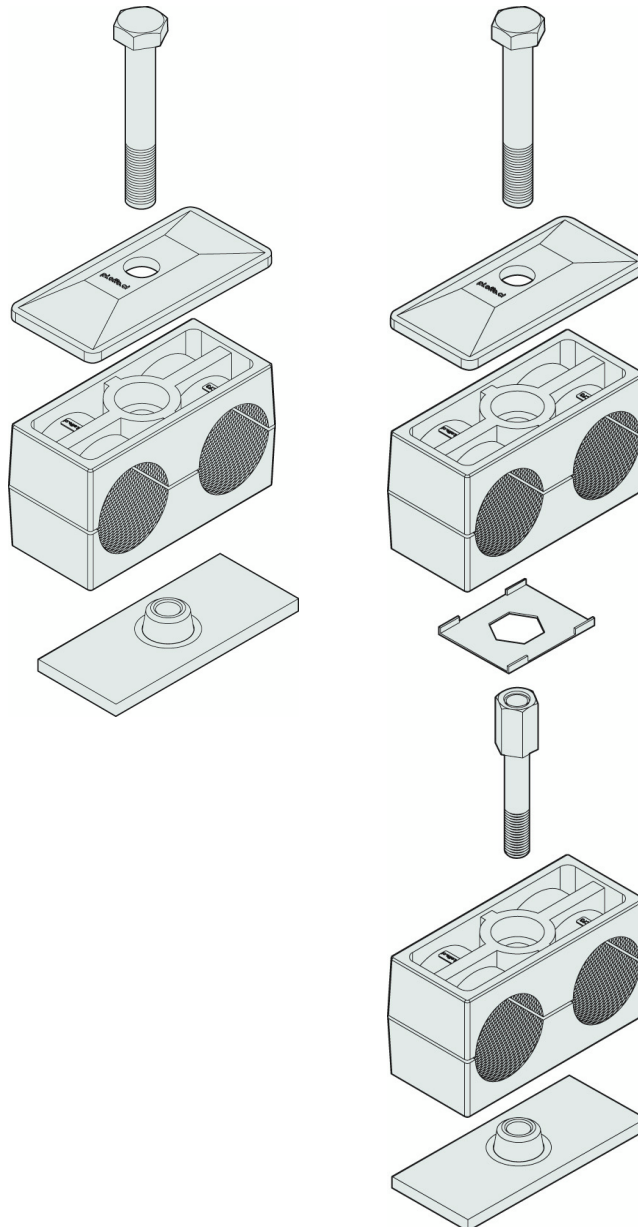


Section 5

Accessories

TWIN SERIES CLAMP COMPONENTS

| Clamp Group Size 1 - 5 | Clamp Shell | Top Plate | Base Plate | Hex Bolt | Stacking Bolt | Locking Plate | Mounting Rail | Rail Nut |
|------------------------|------------------------|------------------|-------------------|-----------------|----------------------|----------------------|----------------------|-----------------|
| | | | | | | | | |
| Group Size | Clamp Shell Part # | Top Plate Part # | Base Plate Part # | Hex Bolt Part # | Stacking Bolt Part # | Locking Plate Part # | Mounting Rail Part # | Rail Nut Part # |
| 1 | Refer to previous page | TP-CF1 | BP-CF1 | S-CF1 | VA-CF1 | PB-CF1 | PB | DF6 |
| 2 | | TP-CF2 | BP-CF2 | S-CF2 | VA-CF2 | PB-CF2/5 | | DF8 |
| 3 | | TP-CF3 | BP-CF3 | S-CF3 | VA-CF3 | | | |
| 4 | | TP-CF4 | BP-CF4 | S-CF4 | VA-CF4 | | | |
| 5 | | TP-CF5 | BP-CF5 | S-CF5 | VA-CF5 | | | |



Section 5 Accessories



HEAVY SERIES CLAMPS



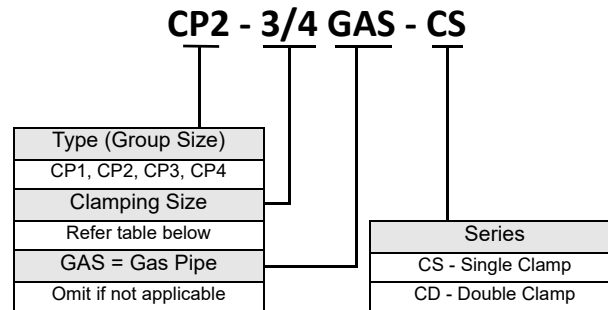
Clamp Shells



Single Clamp



Double Clamp



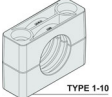
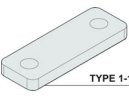
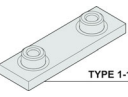

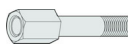
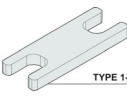
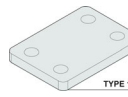
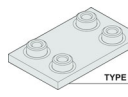
| Shell Size mm | Single Clamp Part # | Double Clamp Part # | Shell Only Single Clamp Part # | Shell Size mm | Single Clamp Part # | Double Clamp Part # | Shell Only Single Clamp Part # |
|------------------------------------|---------------------|---------------------|--------------------------------|-----------------------|---------------------|---------------------|--------------------------------|
| Group Size CP1 | | | | Group Size CP3 | | | |
| 6.4 | CP1-1/4-CS | CP1-1/4-CD | CP1S-1/4-CS | 30.0 | CP3-30-CS | CP3-30-CD | CP3S-30-CS |
| 9.5 | CP1-3/8-CS | CP1-3/8-CD | CP1S-3/8-CS | 31.75 | CP3-1-1/4-CS | CP3-1-1/4-CD | CP3S-1-1/4-CS |
| 10.0 | CP1-1/8GAS-CS | CP1-1/8GAS-CD | CP1S-1/8GAS-CS | 32.0 | CP3-32-CS | CP3-32-CD | CP3S-32-CS |
| 12.7 | CP1-1/2-CS | CP1-1/2-CD | CP1S-1/2-CS | 33.7 | CP3-1GAS-CS | CP3-1GAS-CD | CP3S-1GAS-CS |
| 13.5 | CP1-1/4GAS-CS | CP1-1/4GAS-CD | CP1S-1/4GAS-CS | 38.0 | CP3-38-CS | CP3-38-CD | CP3S-38-CS |
| 16.0 | CP1-5/8-CS | CP1-5/8-CD | CP1S-5/8-CS | 38.1 | CP3-1-1/2-CS | CP3-1-1/2-CD | CP3S-1-1/2-CS |
| 17.2 | CP1-3/8GAS-CS | CP1-3/8GAS-CD | CP1S-3/8GAS-CS | 42.4 | CP3-1-1/4-CS | CP3-1-1/4-CD | CP3S-1-1/4-CS |
| 19.0 | CP1-3/4-CS | CP1-3/4-CD | CP1S-3/4-CS | 45.0 | CP3-45-CS | CP3-45-CD | CP3S-45-CS |
| Group Size CP2 | | | | Group Size CP4 | | | |
| 19.0 | CP2-3/4-CS | CP2-3/4-CD | CP2S-3/4-CS | 33.7 | CP4-1GAS-CS | CP4-1GAS-CD | CP4S-1GAS-CS |
| 20.0 | CP2-20-CS | CP2-20-CD | CP2S-20-CS | 40.0 | CP4-40-CS | CP4-40-CD | CP4S-40-CS |
| 21.3 | CP2-1/2GAS-CS | CP2-1/2GAS-CD | CP2S-1/2GAS-CS | 42.4 | CP4-1-1/4GAS-CS | CP4-1-1/4GAS-CD | CP4S-1-1/4GAS-CS |
| 22.0 | CP2-22-CS | CP2-22-CD | CP2S-22-CS | 44.5 | CP4-1-3/4-CS | CP4-1-3/4-CD | CP4S-1-3/4-CS |
| 25.0 | CP2-25-CS | CP2-25-CD | CP2S-25-CS | 45.0 | CP4-45-CS | CP4-45-CD | CP4S-45-CS |
| 25.4 | CP2-1-CS | CP2-1-CD | CP2S-1-CS | 48.3 | CP4-1-1/2GAS-CS | CP4-1-1/2GAS-CD | CP4S-1-1/2GAS-CS |
| 26.9 | CP2-3/4GAS-CS | CP2-3/4GAS-CD | CP2S-3/4GAS-CS | 50.0 | CP4-50-CS | CP4-50-CD | CP4S-50-CS |
| 28.0 | CP2-28-CS | CP2-28-CD | CP2S-28-CS | 50.8 | CP4-2-CS | CP4-2-CD | CP4S-2-CS |
| 30.0 | CP2-30-CS | CP2-30-CD | CP2S-30-CS | 53.0 | CP4-53-CS | CP4-53-CD | CP4S-53-CS |
| *Shell Only part number = 2 halves | | | | 54.0 | CP4-1-3/4GAS-CS | CP4-1-3/4GAS-CD | CP4S-1-3/4GAS-CS |
| | | | | 56.0 | CP4-56-CS | CP4-56-CD | CP4S-56-CS |
| | | | | 57.2 | CP4-2-1/4-CS | CP4-2-1/4-CD | CP4S-2-1/4-CS |
| | | | | 60.3 | CP4-2GAS-CS | CP4-2GAS-CD | CP4S-2GAS-CS |
| | | | | 63.5 | CP4-2-1/2-CS | CP4-2-1/2-CD | CP4S-2-1/2-CS |
| | | | | 65.0 | CP4-65-CS | CP4-65-CD | CP4S-65-CS |

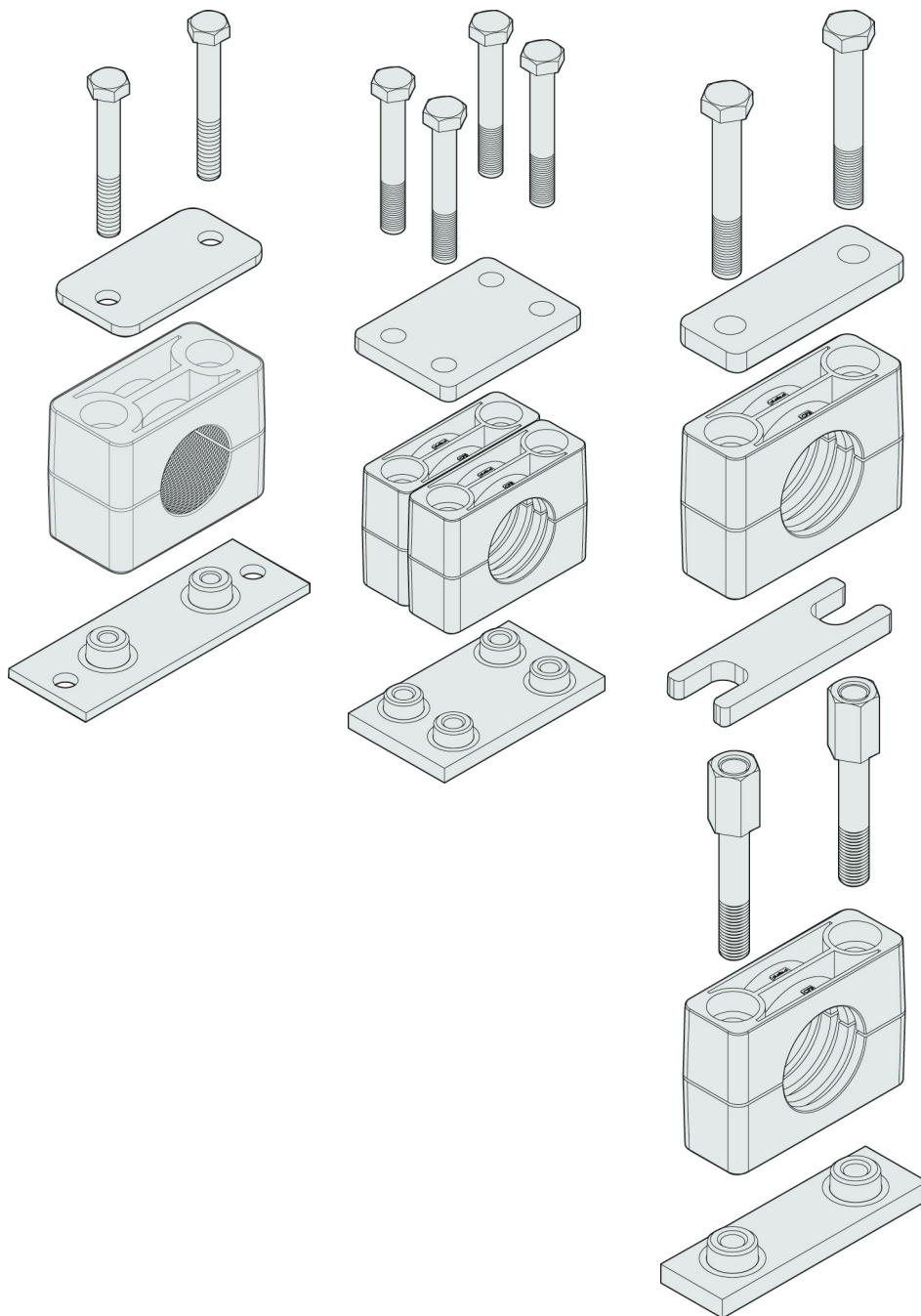


Section 5

Accessories

HEAVY SERIES CLAMP COMPONENTS

| Clamp Group Size 1 - 4 | Clamp Shell | Top Plate | Base Plate | Hex Bolt | Stacking Bolt | Locking Plate | Double Top Plate | Double Base Plate |
|------------------------|---|---|---|---|---|--|---|---|
| |  |  |  |  |  |  |  |  |
| Group Size | Clamp Shell Part # | Top Plate Part # | Base Plate Part # | Hex Bolt Part # | Stacking Bolt Part # | Locking Plate Part # | Double Top Plate Part # | Double Base Plate Part # |
| 1 | Refer to previous page | TP-CP1-CS | BP-CP1-CS | S-CP1-CS | VA-CP1 | PB-CP1 | TP-CP1-CD | BP-CP1-CD |
| 2 | | TP-CP2-CS | BP-CP2-CS | S-CP2-CS | VA-CP2 | PB-CP2 | TP-CP2-CD | BP-CP2-CD |
| 3 | | TP-CP3-CS | BP-CP3-CS | S-CP3-CS | VA-CP3 | PB-CP3 | TP-CP3-CD | BP-CP3-CD |
| 4 | | TP-CP4-CS | BP-CP4-CS | S-CP4-CS | VA-CP4 | PB-CP4 | TP-CP4-CD | BP-CP4-CD |



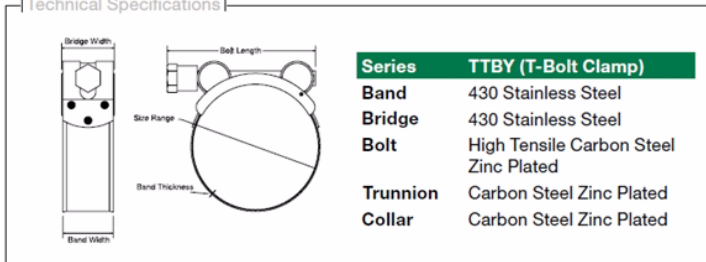
T-Bolt Clamps

TTBY Series - Part Stainless Steel, Heavy Duty

- For heavy duty applications where large tightening forces are required
- 430 stainless steel band and bridge - carbon steel plated bolt
- Rolled edge to prevent hose damage
- Solid trunnions with hex head bolt
- Superior sealing - tighter seals at lower bolt torques
- Extra solid construction
- Australian made



Technical Specifications



Dimensions - Band and Bolt

| Ref. | Band Width | Bridge Width | Band Thickness | Bolt | Bolt Length |
|------|------------|--------------|----------------|------|-------------|
| 1 | 16mm | 18mm | 0.7mm | M5 | 40mm |
| 2 | 20mm | 22mm | 0.7mm | M6 | 55mm |
| 3 | 24mm | 27mm | 1.0mm | M8 | 80mm |
| 4 | 26mm | 29mm | 1.2mm | M10 | 105mm |

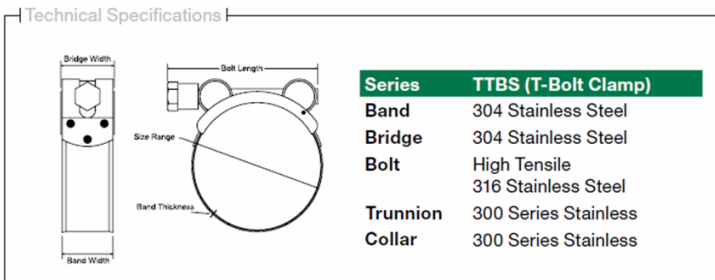
| Part Number | Ref | Suit Hose Type | Part Number | Ref | Suit Hose Type | Part Number | Ref | Suit Hose Type | |
|------------------|--------------|----------------|------------------|--------------|----------------|------------------|-----|----------------|--------------|
| Adjustment Range | | | Adjustment Range | | | Adjustment Range | | | |
| TTBY17-19P | 1 | | TTBY52-55P | 2 | 32 MM-SD | TTBY104-112P | 3 | | |
| TTBY18-20P | | | TTBY54-57P | | | TTBY108-116P | | | |
| TTBY20-22P | | | TTBY56-59P | | | TTBY113-121P | | | |
| TTBY21-23P | | | TTBY58-61P | | | TTBY117-125P | | | |
| TTBY23-25P | | | TTBY60-63P | | | TTBY122-130P | | | |
| TTBY24-26P | | | TTBY62-65P | | | TTBY126-134P | | | |
| TTBY26-28P | | | TTBY64-67P | | | TTBY131-139P | | | |
| TTBY27-29P | | | TTBY66-70P | | | TTBY140-148P | | | |
| TTBY29-31P | | | 12 MM-SD | | | TTBY68-73P | | | TTBY149-161P |
| TTBY30-33P | | | 2 | | | 16 MM-SD | | | TTBY71-76P |
| TTBY32-35P | TTBY74-79P | TTBY175-187P | | | | | | | |
| TTBY34-37P | TTBY77-82P | TTBY188-200P | | | | | | | |
| TTBY36-39P | TTBY80-85P | TTBY201-213P | | | | | | | |
| TTBY38-41P | TTBY83-88P | TTBY214-226P | | | | | | | |
| TTBY40-43P | 20 MM-SD | TTBY86-91P | | TTBY227-239P | | | | | |
| TTBY42-45P | TTBY89-94P | TTBY240-252P | | | | | | | |
| TTBY44-47P | TTBY92-97P | TTBY253-265P | | | | | | | |
| TTBY46-49P | 24 MM-SD | TTBY95-100P | | TTBY266-278P | | | | | |
| TTBY48-51P | TTBY98-103P | TTBY279-291P | | | | | | | |
| TTBY50-53P | TTBY101-107P | TTBY292-304P | | | | | | | |

NB: MM-SD = MultiMaster™ SD Megaflex® hose

T-Bolt Clamps

TTBS Series - All Stainless Steel, Heavy Duty

- For heavy duty applications where large tightening forces are required
- All 300 series stainless steel for corrosion protection
- Rolled edge to prevent hose damage
- Solid trunnions with hex head bolt
- Superior sealing - tighter seals at lower bolt torques
- Extra solid construction
- Australian made



Dimensions - Band and Bolt

| Ref. | Band Width | Bridge Width | Band Thickness | Bolt | Bolt Length |
|------|------------|--------------|----------------|------|-------------|
| 1 | 16mm | 18mm | 0.7mm | M5 | 40mm |
| 2 | 20mm | 22mm | 0.7mm | M6 | 55mm |
| 3 | 24mm | 27mm | 1.0mm | M8 | 80mm |
| 4 | 26mm | 29mm | 1.2mm | M10 | 105mm |

| Part Number | Ref | Suit Hose Type | Part Number | Ref | Suit Hose Type | Part Number | Ref | Suit Hose Type |
|------------------|----------|----------------|------------------|-----|----------------|------------------|-----|----------------|
| Adjustment Range | | | Adjustment Range | | | Adjustment Range | | |
| TTBS17-19P | 1 | | TTBS52-55P | 2 | 32 MM-SD | TTBS104-112P | 3 | |
| TTBS18-20P | | | TTBS54-57P | | | TTBS108-116P | | |
| TTBS20-22P | | | TTBS56-59P | | | TTBS113-121P | | |
| TTBS21-23P | | | TTBS58-61P | | | TTBS117-125P | | |
| TTBS23-25P | | | TTBS60-63P | | | TTBS122-130P | | |
| TTBS24-26P | | | TTBS62-65P | | | TTBS126-134P | | |
| TTBS26-28P | | | TTBS64-67P | | | TTBS131-139P | | |
| TTBS27-29P | | | TTBS66-70P | | | TTBS140-148P | | |
| TTBS29-31P | | | TTBS68-73P | | | TTBS149-161P | | |
| TTBS30-33P | | | 12 MM-SD | | | TTBS71-76P | | |
| TTBS32-35P | | TTBS74-79P | TTBS175-187P | | | | | |
| TTBS34-37P | 16 MM-SD | TTBS77-82P | TTBS188-200P | | | | | |
| TTBS36-39P | | TTBS80-85P | TTBS201-213P | | | | | |
| TTBS38-41P | | TTBS83-88P | TTBS214-226P | | | | | |
| TTBS40-43P | 20 MM-SD | TTBS86-91P | TTBS227-239P | | | | | |
| TTBS42-45P | | TTBS89-94P | TTBS240-252P | | | | | |
| TTBS44-47P | | TTBS92-97P | TTBS253-265P | | | | | |
| TTBS46-49P | 24 MM-SD | TTBS95-100P | TTBS266-278P | | | | | |
| TTBS48-51P | | TTBS98-103P | TTBS279-291P | | | | | |
| TTBS50-53P | | TTBS101-107P | TTBS292-304P | | | | | |

NB: MM-SD = MultiMaster™ SD Megaflex® hose

Perforated Band Clamps

MH (Micro) & HS (Regular) Series - Part Stainless Steel

- For automotive and general purpose use
- 301 stainless steel band
- Built to SAE J1508 standard
- Low free torque for ease of installation
- Flexible band for superior sealing. Conforms to hose
- High strength for reliable sealing
- Australian made



Technical Specifications

| Part No. MH004 – MH048 | | Part No. HS006 – HS270 | |
|------------------------|-------------------------------------|------------------------|-------------------------------------|
| Series | MH (Micro Clamp) | Series | HS (Regular Clamp) |
| Band | 301 Stainless Steel | Band | 301 Stainless Steel |
| Housing | Mild Steel | Housing | Stainless Steel* |
| Screw | Carbon Steel Zinc Plated (Hex Head) | Screw | Carbon Steel Zinc Plated (Hex Head) |

* Some sizes are manufactured using carbon steel zinc plated housing

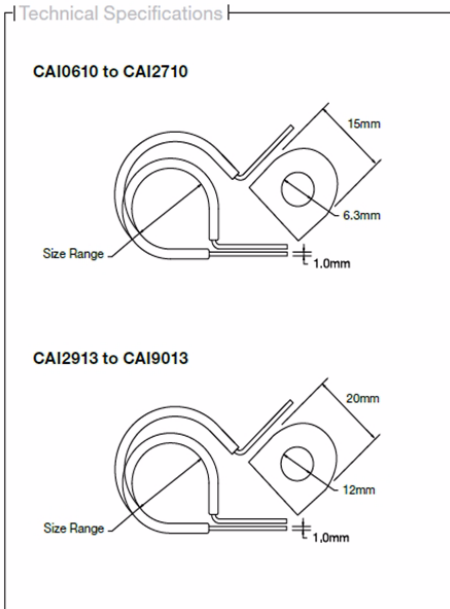
| MH Range (Micro Clamp) | |
|------------------------|------------|
| Part Number | Range (mm) |
| MH004 | 6-16 |
| MH005 | 11-18 |
| MH006 | 11-22 |
| MH008 | 13-25 |
| MH010 | 14-27 |
| MH012 | 17-32 |
| MH016 | 18-38 |
| MH020 | 22-45 |
| MH024 | 33-51 |
| MH028 | 40-57 |
| MH032 | 46-64 |
| MH036 | 52-70 |
| MH040 | 59-76 |
| MH048 | 65-89 |

| HS Range (Regular Clamps) | | | |
|---------------------------|------------|-------------|------------|
| Part Number | Range (mm) | Part Number | Range (mm) |
| HS006 | 11-22 | HS060 | 84-108 |
| HS008 | 13-25 | HS064 | 90-114 |
| HS010 | 14-27 | HS072 | 103-127 |
| HS012 | 18-32 | HS080 | 117-140 |
| HS016 | 21-38 | HS084 | 125-146 |
| HS020 | 21-44 | HS088 | 106-152 |
| HS024 | 27-51 | HS096 | 115-165 |
| HS028 | 33-57 | HS104 | 133-178 |
| HS032 | 40-64 | HS116 | 146-197 |
| HS036 | 46-70 | HS120 | 159-206 |
| HS040 | 52-76 | HS128 | 175-217 |
| HS044 | 59-83 | HS136 | 181-225 |
| HS048 | 65-89 | HS152 | 206-251 |
| HS052 | 71-95 | HS164 | 222-273 |
| HS056 | 78-102 | HS188 | 260-311 |

CAI Series

Vinyl Coated Clamps

- For use in holding pipes, hoses, tubing, cables etc
- Coated mild steel
- Ideal for automotive, plumbing, construction, marine, industrial electrical, power equipment, lawn and garden applications

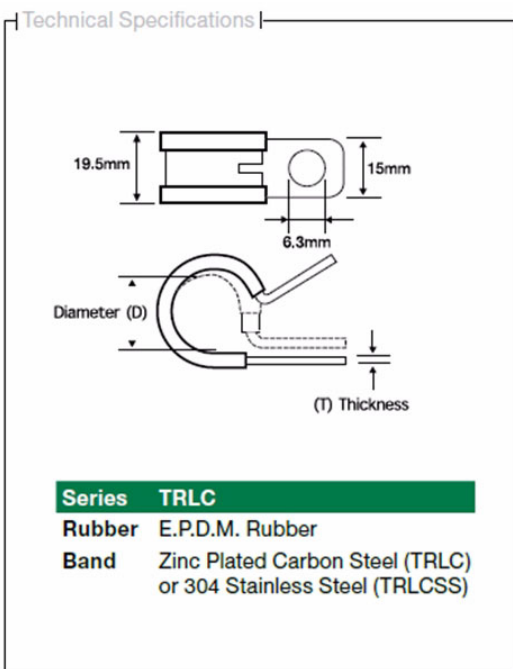


| Part Number | Range mm | Part Number | Range mm |
|-------------|-------------------------|-------------|------------------------|
| CAI0610P | 15mm wide 6.3mm hole | CAI2913P | 20mm wide 12mm hole |
| CAI0810P | | CAI3013P | |
| CAI1010P | | CAI3213P | |
| CAI1110P | | CAI3313P | |
| CAI1310P | | CAI3813P | |
| CAI1410P | | CAI4013P | |
| CAI1610P | | CAI4413P | |
| CAI1810P | | CAI4613P | |
| CAI1910P | | CAI5113P | |
| CAI2110P | | CAI5213P | |
| CAI2410P | | CAI5713P | |
| CAI2510P | | CAI6413P | |
| CAI2710P | | CAI6713P | |
| | | CAI7013P | |
| | CAI7313P | | |
| | CAI9013P | | |

TRLC Series

Rubber Lined Clamps

- For pipes, cables, groups of cables, hoses etc
- Zinc plated carbon steel band (304 stainless steel available)
- On closing band adapts itself easily to the dimensions and shape required
- Excellent impact and vibration absorption



| Part Number | Thickness mm | Part Number | Thickness mm |
|-------------|--------------|-------------|--------------|
| TRLC6P | 0.8 | TRLC32P | 1.3 |
| TRLC8P | | TRLC33P | |
| TRLC10P | | TRLC35P | |
| TRLC11P | | TRLC37P | |
| TRLC13P | | TRLC38P | |
| TRLC14P | 1.0 | TRLC39P | |
| TRLC16P | | TRLC42P | |
| TRLC18P | | TRLC44P | |
| TRLC19P | | TRLC47P | |
| TRLC21P | | TRLC51P | |
| TRLC22P | | TRLC54P | |
| TRLC25P | | TRLC60P | |
| TRLC27P | 1.3 | TRLC64P | |
| TRLC29P | | TRLC74P | |
| TRLC30P | | TRLC110P | |

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CS116/HV - Nom. 1" Swage Head

A precision 1" nominal swage press for the production of hose assemblies of all types. The CS116 Swage Press is designed to be compact and portable. Great for those remote or difficult locations. Make your assemblies where and when you want with the options of hand pump, air over oil, 240VAC or battery power source. CS116/HV is a swage head only and not supplied with a power source.



- 1" 2-wire hydraulic hose capacity
- 3/4" 4-wire hydraulic hose capacity
- Colour coded easy slide-in dies
- Compact and portable 27kg
- Horizontal feed
- Carry handles
- Standard swaging range 16mm to 44mm diameter
- Extended swaging range 6.5mm to 16mm diameter

Note: Machine capacity may vary depending on hose/coupling make.
Power source and accessories sold separately to Swage Head

| Swage Head | Accessories | | | | | |
|------------|-------------------|-------------|-----------|----------|----------|----------|
| | Die Set* (7 Sets) | Change Tool | Hand Pump | Air/Hyd | 240VAC | Battery |
| CS116/HV | CS25ESDS | CS25EQCT | SHS-700 | SAP-1000 | SPM-1000 | XC1202ME |

*16-40mm dies only

See data sheets for more information on accessory options and machine specifications.

CS116/HV - Die Sets and Optional Accessories

| Standard Range | Optional Die Sets |
|-----------------|-------------------|
| CS25E-16 (16mm) | CS25E-8 (8mm) |
| CS25E-19 (19mm) | CS25E-10 (10mm) |
| CS25E-22 (22mm) | CS25E-12 (12mm) |
| CS25E-26 (26mm) | CS25E-14 (14mm) |
| CS25E-30 (30mm) | |
| CS25E-35 (35mm) | |
| CS25E-40 (40mm) | |



CS25E-xx
Die sets supplied in easy to store Quick Change containers



PVVM-38NPT-M
Screw-on coupling (male) purposely designed for hydraulic jacking



PVVM-1/38NPT-F
Screw-on coupling (female) purposely designed for hydraulic jacking



CS25EQCT
Quick Change Tool for CS116/HV Swage Head

POWER SOURCES

SPM-P5 - 18V Power Pack

Flexibility, Compact, Mobile Power
Where and when needed

- 700 bar oil pressure
- 6.4kg (without battery)

See data sheet for more information



XC1202ME - 28V Power Pack

Portability, Speed & Safety

- 700 bar oil pressure
- Lightweight design
- Powerful 1/2 horsepower motor

See data sheet for more information



SPM-1000 - 240V Power Pack

Portable and compact workshop solution

- 700 bar oil pressure
- 17.5kg (without hose)
- 2.6L tank

See data sheet for more information



SAP-1000 - Air Hydraulic Pump

Economical workshop power solution

- 700 bar oil pressure
- 1L reservoir capacity
- 6.6kg

See data sheet for more information



SHS-700 - Hydraulic Hand Pump

Mobile, Economical & Reliable

- 700 bar oil pressure
- Bypass valve
- 0.7L reservoir capacity
- 8kg

See data sheet for more information



CS132/xxx - Nom. 1-1/4" Swage Press

A precision 1-1/4" nominal swage press for the production of hose assemblies of all types.

The CS132 range is of a design with a large aperture enabling optional die sets to 2" hose of light construction.

Die sets used are those of a popular European "pin" design.

- 1-1/4" 4-wire hydraulic hose capacity
- 2" 2-wire hydraulic hose capacity
- Pin type dies with colour coding
- Large aperture
- Automatic motor control
- Standard swaging range 16mm to 55mm diameter finished swage
- Extended swaging range 6.5mm to 74mm diameter finished swage
- Power options 12 or 24VDC and 220 or 400VAC
- UL and CE approvals



Note: Machine capacity may vary depending on hose/coupling make
Accessories sold separately to Swage Press

| Swage Head | Power | Accessories | | | | | | |
|-----------------|--------|----------------------|----------------|-------------|----------------|------------|---------------|---------------|
| | | Die Set* (9 Sets) | Change Tool | Die Rack | Access Rail | Stand | Foot Pedal | Depth Stop |
| CS132/12M | 12VDC | CS32SDS | CS32QCT | CS32-DUPLO | CSAR | - | - | - |
| CS132/24M | 24VDC | | | | | | | |
| CS132/220M/LITE | 220VAC | | | CS32QCR | - | CS32-CAPRI | CSFP | CS132DS |
| CS132/400M | 400VAC | | | | | | | |

*16-53mm dies only

See data sheets for more information on accessory options and machine specifications.

CS150/xxx - Nom. 2" Swage Press

A precision 2" nominal swage press for the production of hose assemblies of all types.

The CS150 range is of a design with a large aperture enabling optional die sets to 3" hose of light construction.

Die sets used are those of a popular European "pin" design.

- 2" 4-wire hydraulic hose capacity
- 3" 2-wire hydraulic hose capacity
- Pin type dies with colour coding
- Large aperture
- Automatic motor control
- Standard swaging range 16mm to 78mm diameter finished swage
- Extended swaging range 6.5mm to 100mm diameter finished swage
- Power options 12 or 24VDC and 220 or 400VAC
- UL and CE approvals



Note: Machine capacity may vary depending on hose/coupling make
Accessories sold separately to Swage Press

| Swage Head | Power | Accessories | | | | | | |
|-----------------|--------|-----------------------|----------------|-------------|----------------|------------|---------------|---------------|
| | | Die Set* (11 Sets) | Change Tool | Die Rack | Access Rail | Stand | Foot Pedal | Depth Stop |
| CS150/12M | 12VDC | CS50SDS | CS50QCT | CS50-DUPLO | CSAR | - | - | - |
| CS150/24M | 24VDC | | | | | | | |
| CS150/220M/LITE | 220VAC | | | CS50QCR | - | CS50-CAPRI | CSFP | CS150DS |
| CS150/400M | 400VAC | | | | | | | |

*16-69mm dies only

See data sheets for more information on accessory options and machine specifications.

CS350/xxx - Nom. 2" Swage Press

A precision 2" nominal swage press for the production of hose assemblies of all types.

The CS350 range is of a design with a large aperture enabling easy insertion and removal of swept bent hose couplings.

Die sets used are those of a popular European "pin" design.

- 2" 6-wire hydraulic hose capacity
- Shoe cluster auto indexing, self lubrication
- Slide type dies with colour coding
- Large aperture
- Reverse head design for strength and safety
- Standard swaging range 16mm to 78mm diameter
- Extended swaging range 6.5mm to 100mm diameter
- Power options 12 or 24VDC and 220 or 400VAC
- UL and CE approvals



Note: Machine capacity may vary depending on hose/coupling make
Accessories sold separately to Swage Press

| Swage Head | Power | Accessories | | | | | | |
|-----------------|--------|-----------------------|----------------|-------------|----------------|------------|---------------|---------------|
| | | Die Set* (11 Sets) | Change Tool | Die Rack | Access Rail | Stand | Foot Pedal | Depth Stop |
| CS350/12M | 12VDC | CS50ESDS | CS50EQCT | CS50-DUPLO | CSAR | - | - | - |
| CS350/24M | 24VDC | | | CS50EQCR | - | CS50-CAPRI | CSFP | CS350DS |
| CS350/220M/LITE | 220VAC | | | | | | | |
| CS350/400M | 400VAC | | | | | | | |

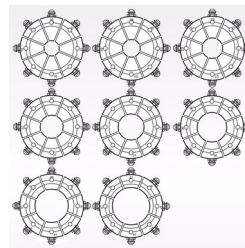
*16-69mm dies only

See data sheets for more information on accessory options and machine specifications.

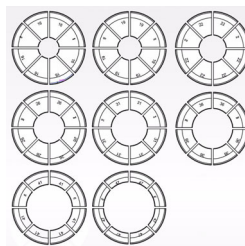
Accessories - Die Sets & Die Set Packs

- Pin type dies (32-16 = 1-1/4" swage press and 16mm pin die)
- Easy slide dies (50E-16 = 2" swage press and 16mm slide die)
- Colour coding is only available in the Standard Die Set range

| Die Options | CS116/HV Part # | CS132 Part # | CS150 Part # | CS350 Part # |
|-----------------------|--------------------|-----------------|-----------------|-----------------|
| Individual Die Sets | CS25E-6.5 | 32-6.5 | 50-6.5 | 50E-6.5 |
| | CS25E-8 | 32-8 | 50-8 | 50E-8 |
| | CS25E-10 | 32-10 | 50-10 | 50E-10 |
| | CS25E-12 | 32-12 | 50-12 | 50E-12 |
| | CS25E-14 | 32-14 | 50-14 | 50E-14 |
| Standard Die Set Pack | CS253SDS | CS32SDS | CS50SDS | CS50ESDS |
| | CS25E-16 | 32-16 | 50-16 | 50E-16 |
| | CS25E-19 | 32-19 | 50-19 | 50E-19 |
| | CS25E-22 | 32-23 | 50-22 | 50E-22 |
| | CS25E-26 | 32-27 | 50-26 | 50E-26 |
| | CS25E-30 | 32-31 | 50-31 | 50E-31 |
| | CS25E-35 | 32-36 | 50-36 | 50E-36 |
| | CS25E-40 | 32-41 | 50-41 | 50E-41 |
| Individual Die Sets | | 32-47 | 50-47 | 50E-47 |
| | | 32-53 | 50-53 | 50E-53 |
| | | 32-60 | 50-60 | 50E-60 |
| | | 32-67 | 50-69 | 50E-68 |
| | | | 50-76 | 50E-76 |
| | | | 50-84 | 50E-82 |
| | | | 59-90 | |
| Special Build | | 32-XX | 50-XX | 50E-XX |



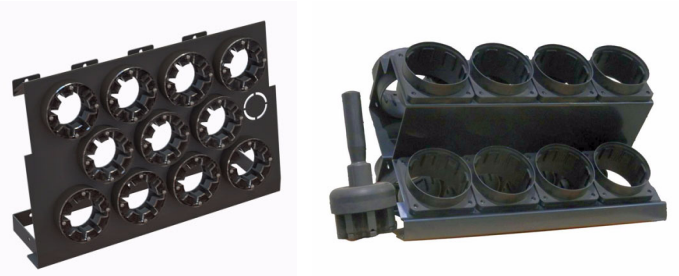
Quick Change Tool
CS32QCT
CS50QCT



Quick Change Tool
CS32EQCT
CS50EQCT



| Accessory | Machine | Part Number |
|---|---------|-------------|
| Quick Change Tool | CS116 | CS25EQCT |
| For all models | CS132 | CS32QCT |
| | CS150 | CS50QCT |
| | CS350 | CS50EQCT |
| | | |
| Quick Change Rack | CS132 | CS32QCR |
| Fits into Adjustable Stand | CS150 | CS50QCR |
| For all 240/400VAC models QCT supplied with rack | CS250 | CS50EQCR |
| | | |
| | | |
| Mobile Quick Change Rack | CS132 | CS32DUPLO |
| Fits onto Access Rail | CS150 | CS50DUPLO |
| For 12/24VDC models | CS350 | CS50EDUPLO |
| | | |
| | | |
| Access Rail | CS132 | CSAR |
| For 12/24VDC models | CS150 | CSAR |
| | | |
| | | |
| Foot Pedal | CS132 | CSFP |
| For 240/400VAC models | CS150 | CSFP |
| | CS350 | CSFP |
| | | |
| | | |
| Height Adjustable Stand | CS132 | CS-CAPRI |
| For 240/400VAC models | CS150 | CS-CAPRI |
| | CS350 | CS-CAPRI |



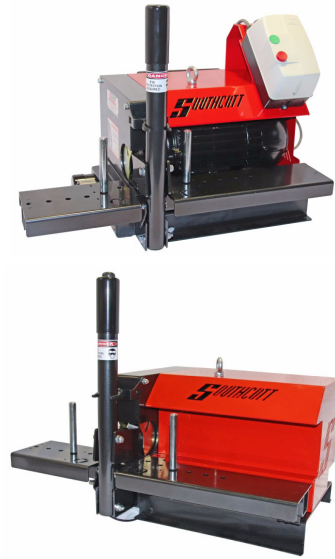
Cut Off Saw

A powerful 1-1/4" nominal hose saw for the production of hose assemblies of all types. Designed specifically for shop installation and mobile hose trucks.

The blades used are for cutting, rather than grinding, designed to ensure the least amount of debris is created.

- 1-1/4" 4-wire hydraulic hose capability
- 2" 2-wire hydraulic hose capability
- Operation counter
- Improved safety features and guards
- Lift point
- Power options 12 or 24VDC and 220 or 400VAC

Note: Machine capacity may vary depending on hose make



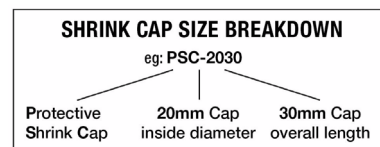
| Cut-Off Saw | Part # | Weight kg | Blade RPM | Electrics |
|-------------|-----------------|-----------|----------------------------|----------------------|
| 12VDC | SCOS-250-12VDC | 36 | 5000 to 1000 | 12VDC / 300A / 1.6kW |
| 24VDC | SCOS-250-24VDC | 36 | | 24VDC / 150A / 2.2kW |
| 240VAC | SCOS-250-240VAC | 55 | 2880 (50Hz) to 3450 (60Hz) | 240VAC / 15 |
| 415VAC | SCOS-250-415VAC | 52 | | 415VAC / 20 |

Heat Seal Unit (P/N SC1250)

Designed specifically for sealing tear-away protective shrink caps onto hydraulic hose and tube assemblies.

Promote clean system integrity by minimising the ingress of contamination in assemblies while in transit, storage and installation.

- Up to 1-1/4" hydraulic hose capacity
- Adjustable timer
- Visual warning light
- Cooldown mode
- Auto cut off timer
- Use with PSC (Plastic Shrink Caps)



| Part Number | Description | ID mm | Length mm | Cover Size mm | JIC | BSP | ORFS | DKL | DKO | FL | FLH |
|-------------|-----------------------------|-------|-----------|---------------|--------|-----|--------|------------|--------|--------|-----|
| PSC-2030 | Shrink Cap 20 x 30mm Yellow | 20 | 30 | 12-18 | 07, 09 | 04 | - | 12, 14, 16 | 14, 16 | - | - |
| PSC-2840 | Shrink Cap 28 x 40mm Yellow | 28 | 40 | 22-26 | 12 | 06 | 09, 11 | 18, 22 | 18, 20 | - | - |
| PSC-3140 | Shrink Cap 31 x 40mm Yellow | 31 | | 24-29 | 14 | 08 | 13 | 22 | 22 | 08 | - |
| PSC-3840 | Shrink Cap 38 x 40mm Yellow | 38 | | 30-36 | 17 | 12 | 16 | 26, 30 | 24, 30 | 10 | 08 |
| PSC-4650 | Shrink Cap 46 x 50mm Yellow | 46 | | 34-44 | 21 | 16 | 19 | 36 | - | 12, 16 | 12 |
| PSC-5260 | Shrink Cap 52 x 60mm Yellow | 52 | 60 | 41-50 | - | 20 | 23 | 45 | 36, 42 | 20 | 16 |
| PSC-5860 | Shrink Cap 58 x 60mm Yellow | 58 | | 49-56 | 26 | 24 | 27 | - | 52 | - | 20 |
| PSC-6760 | Shrink Cap 67 x 60mm Yellow | 67 | | 55-65 | 30 | - | 32 | 52 | - | 24 | 24 |
| PSC-8060 | Shrink Cap 80 x 60mm Yellow | 80 | | 64-78 | 40 | 40 | - | - | - | 32 | 32 |

Note: cap to thread suitabilities provided above are approximates and should be used as a guide only

Warranty

The Company warrants that the products sold by it shall be free from defects in either material or manufacture and will, provided written request to do so is made within 30 days after delivery, either repair or replace, at its option, items shown to the Company's satisfaction to have been defective at the time of delivery.

This warranty comprises the sole and entire warranty pertaining to the Company's products and other terms, conditions or warranties, including but not limited to merchantability and fitness for any particular purpose, whether expressed or implied, are hereby excluded to the fullest extent permitted by law.

No warranty is given on components made to other than the Company's design and is void on any product evidencing alteration from the Company's manufacturing specification.

The Company liability under any statutory provision is limited to the repair, replacement or provision of any equivalent product, at its option.

Except to the extent liability cannot by law be excluded or limited, the Company does not under any circumstances whatsoever accept liability for any contingent cost or consequential losses or any other liability whatsoever (except that under the above terms) which may in any way arise in the use of its products or any defect occurring in them.

Technical information has been prepared from actual test results and is considered reliable but no responsibility can be presumed for its accuracy under varied field conditions.

Child hose couplings are designed and manufactured to suit the nominated Gates or Child branded hose and are to be assembled strictly in accordance with instructions issued by the Company.

The use of non-specified hose or assembly other than to Company instructions may produce an unsatisfactory and hazardous product. Warranty is void in such instances and any liability, expressed or implied, is totally disclaimed.

The Company does not warrant the performance of weld-type adaptors, once welded (except by the Company, its servants or its selling agents). These welded products should be tested and proved fit for the use intended. Not testing, not proving, faulty fabrication or faulty welding may result in an unsatisfactory or even dangerous product.

Suggestions on application, installation and care of the product are offered by the Company only as a guide to best practice and do not add to or otherwise vary the terms of the warranty.

The Company's technical reference manuals provide dimensional and technical specifications to assist in the correct selection and application of Child and Gates products. Because of technological progress and product improvement, all design and dimensional data shown in this product guide is subject to change without notice.

Warranty & Returns

Southcott Pty Ltd warrants that goods supplied shall be of merchantable quality.

Southcott does not warrant that the goods are fit for a particular purpose and, except or unless otherwise stated herein, warranties relating to title, defects or conformity of the goods are expressly excluded.

Returns will be accepted only if prior arrangements have been made with Southcott and charges, including but not limited to re-stocking fees, may apply.

Any costs associated with the return of goods for the purpose of a warranty claim shall be the responsibility of the customer.

For full terms and conditions visit our website at www.southcott.com.au

While all care has been taken to ensure that information is true and correct at the time of publication, Southcott Pty Ltd gives no warranty or assurance and makes no representation as to the accuracy of any information or advice contained in the guide or that it is suitable for your intended application. Southcott accepts no liability for any errors or omissions and will not be held liable for any consequential damages.

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5

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6

Field
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3

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