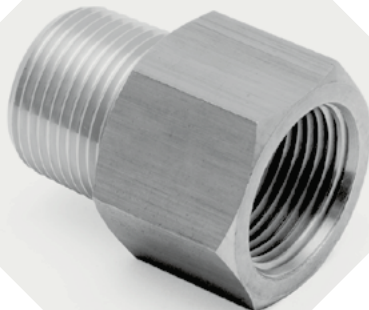


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INTERNATIONAL ADAPTER & FITTING SOLUTIONS

# THREAD SPECIFICATION CHARTS

## BSPP Thread Specification Chart

| Dash Size | Thread Size | Threads per inch (TPI) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|-----------|-------------|------------------------|----------------------|--------------------------|------------------------|----------------------------|
| 02        | 1/8         | 28                     | 9.6                  | 0.38                     | 8.6                    | 0.34                       |
| 04        | 1/4         | 19                     | 13                   | 0.51                     | 11.9                   | 0.47                       |
| 06        | 3/8         | 19                     | 16.5                 | 0.65                     | 15.2                   | 0.6                        |
| 08        | 1/2         | 14                     | 20.8                 | 0.82                     | 19.1                   | 0.75                       |
| 10        | 5/8         | 14                     | 22.8                 | 0.9                      | 20.8                   | 0.82                       |
| 12        | 3/4         | 14                     | 26.3                 | 1.04                     | 24.6                   | 0.97                       |
| 16        | 1           | 11                     | 33.1                 | 1.3                      | 30.7                   | 1.21                       |
| 20        | 1-1/4       | 11                     | 41.8                 | 1.64                     | 39.4                   | 1.55                       |
| 24        | 1-1/2       | 11                     | 47.7                 | 1.88                     | 45.5                   | 1.79                       |
| 32        | 2           | 11                     | 59.5                 | 2.34                     | 57.4                   | 2.26                       |
| 40        | 2-1/2       | 11                     | 75.1                 | 2.95                     | 72.6                   | 2.86                       |
| 48        | 3           | 11                     | 87.9                 | 3.46                     | 85.4                   | 3.36                       |

## BSPT Thread Specification Chart

| Dash Size | Thread Size | Threads per inch (TPI) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|-----------|-------------|------------------------|----------------------|--------------------------|------------------------|----------------------------|
| 02        | 1/8         | 28                     | 9.6                  | 0.38                     | 8.6                    | 0.339                      |
| 04        | 1/4         | 19                     | 13.1                 | 0.516                    | 11.2                   | 0.441                      |
| 06        | 3/8         | 19                     | 16.6                 | 0.654                    | 14.7                   | 0.579                      |
| 08        | 1/2         | 14                     | 20.9                 | 0.823                    | 18.3                   | 0.720                      |
| 10        | 5/8         | 14                     | 22.9                 | 0.902                    | 20.6                   | 0.811                      |
| 12        | 3/4         | 14                     | 26.4                 | 1.039                    | 23.9                   | 0.941                      |
| 16        | 1           | 11                     | 33.2                 | 1.307                    | 29.7                   | 1.169                      |
| 20        | 1-1/4       | 11                     | 41.9                 | 1.65                     | 38.6                   | 1.520                      |
| 24        | 1-1/2       | 11                     | 47.8                 | 1.882                    | 44.5                   | 1.752                      |
| 32        | 2           | 11                     | 59.6                 | 2.346                    | 56.4                   | 2.220                      |
| 40        | 2-1/2       | 11                     | 75.2                 | 2.961                    | 71.9                   | 2.831                      |
| 48        | 3           | 11                     | 87.8                 | 3.457                    | 84.6                   | 3.331                      |

## Metric Thread Specification Chart

| Thread Callout | Thread Pitch (mm) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|----------------|-------------------|----------------------|--------------------------|------------------------|----------------------------|
| M8 X 1.0       | 1.0               | 8.0                  | 0.315                    | 6.9                    | 0.272                      |
| M10 X 1.0      | 1.0               | 10.0                 | 0.394                    | 8.9                    | 0.35                       |
| M10 X 1.5      | 1.5               | 10.0                 | 0.394                    | 8.4                    | 0.331                      |
| M12 X 1.0      | 1.0               | 12.0                 | 0.472                    | 10.9                   | 0.429                      |
| M12 X 1.5      | 1.5               | 12.0                 | 0.472                    | 10.4                   | 0.409                      |
| M14 X 1.5      | 1.5               | 14.0                 | 0.551                    | 12.4                   | 0.488                      |
| M16 X 1.5      | 1.5               | 16.0                 | 0.63                     | 14.4                   | 0.567                      |
| M18 X 1.5      | 1.5               | 18.0                 | 0.709                    | 16.4                   | 0.646                      |
| M20 X 1.5      | 1.5               | 20.0                 | 0.787                    | 18.4                   | 0.724                      |
| M22 X 1.5      | 1.5               | 22.0                 | 0.866                    | 20.4                   | 0.803                      |
| M24 X 1.5      | 1.5               | 24.0                 | 0.945                    | 22.4                   | 0.882                      |
| M26 X 1.5      | 1.5               | 26.0                 | 1.024                    | 24.4                   | 0.961                      |
| M27 X 2.0      | 2.0               | 27.0                 | 1.063                    | 24.8                   | 0.976                      |
| M30 X 2.0      | 2.0               | 30.0                 | 1.181                    | 27.8                   | 1.094                      |
| M33 X 2.0      | 2.0               | 33.0                 | 1.299                    | 30.8                   | 1.213                      |
| M36 X 2.0      | 2.0               | 36.0                 | 1.417                    | 33.8                   | 1.331                      |
| M42 X 2.0      | 2.0               | 42.0                 | 1.654                    | 39.8                   | 1.567                      |
| M45 X 2.0      | 2.0               | 45.0                 | 1.772                    | 42.8                   | 1.685                      |
| M48 X 2.0      | 2.0               | 48.0                 | 1.89                     | 45.8                   | 1.803                      |
| M52 X 2.0      | 2.0               | 52.0                 | 2.047                    | 49.8                   | 1.961                      |
| M60 X 2.0      | 2.0               | 60.0                 | 2.362                    | 57.8                   | 2.276                      |

## 24° DIN Tube - Thread Callout & Compatibility Chart

| Tube Series                  | Tube O.D | Metric Thread Callout | Tube Nut Part # | Cutting Ring Part # | Tube Plug Part # | Tube Cap Part # |
|------------------------------|----------|-----------------------|-----------------|---------------------|------------------|-----------------|
| LL<br>Extra<br>Light<br>Duty | 4 mm     | 8 mm x 1.0            | 5201LL-04       | 5202LL-04           | -                | -               |
|                              | 6 mm     | 10 mm x 1.0           | 5201LL-06       | 5202LL-06           | -                | -               |
|                              | 8 mm     | 12 mm x 1.0           | 5201LL-08       | 5202LL-08           | -                | -               |
|                              | 10 mm    | 14 mm x 1.0           | 5201LL-10       | 5202LL-10           | -                | -               |
|                              | 12 mm    | 16 mm x 1.0           | 5201LL-12       | 5202LL-12           | -                | -               |
| L<br>Light<br>Duty           | 6 mm     | 12 mm x 1.5           | 5201L-06        | 5202-06             | 5203L-06         | 5204L-06        |
|                              | 8 mm     | 14 mm x 1.5           | 5201L-08        | 5202-08             | 5203L-08         | 5204L-08        |
|                              | 10 mm    | 16 mm x 1.5           | 5201L-10        | 5202-10             | 5203L-10         | 5204L-10        |
|                              | 12 mm    | 18 mm x 1.5           | 5201L-12        | 5202-12             | 5203L-12         | 5204L-12        |
|                              | 15 mm    | 22 mm x 1.5           | 5201L-15        | 5202-15             | 5203L-15         | 5204L-15        |
|                              | 18 mm    | 26 mm x 1.5           | 5201L-18        | 5202-18             | 5203L-18         | 5204L-18        |
|                              | 22 mm    | 30 mm x 2.0           | 5201L-22        | 5202-22             | 5203L-22         | 5204L-22        |
|                              | 28 mm    | 36 mm x 2.0           | 5201L-28        | 5202-28             | 5203L-28         | 5204L-28        |
|                              | 35 mm    | 45 mm x 2.0           | 5201L-35        | 5202-35             | 5203L-35         | 5204L-35        |
|                              | 42 mm    | 52 mm x 2.0           | 5201L-42        | 5202-42             | 5203L-42         | 5204L-42        |
| S<br>Heavy<br>Duty           | 6 mm     | 14 mm x 1.5           | 5201S-06        | 5202-06             | 5203S-06         | 5204S-06        |
|                              | 8 mm     | 16 mm x 1.5           | 5201S-08        | 5202-08             | 5203S-08         | 5204S-08        |
|                              | 10 mm    | 18 mm x 1.5           | 5201S-10        | 5202-10             | 5203S-10         | 5204S-10        |
|                              | 12 mm    | 20 mm x 1.5           | 5201S-12        | 5202-12             | 5203S-12         | 5204S-12        |
|                              | 14 mm    | 22 mm x 1.5           | 5201S-14        | 5202-14             | 5203S-14         | 5204S-14        |
|                              | 16 mm    | 24 mm x 1.5           | 5201S-16        | 5202-16             | 5203S-16         | 5204S-16        |
|                              | 20 mm    | 30 mm x 2.0           | 5201S-20        | 5202-20             | 5203S-20         | 5204S-20        |
|                              | 25 mm    | 36 mm x 2.0           | 5201S-25        | 5202-25             | 5203S-25         | 5204S-25        |
|                              | 30 mm    | 42 mm x 2.0           | 5201S-30        | 5202-30             | 5203S-30         | 5204S-30        |
|                              | 38 mm    | 52 mm x 2.0           | 5201S-38        | 5202-38             | 5203S-38         | 5204S-38        |

## TUTORIALS

|  |    |
|--|----|
| <a href="#">TERMS AND DEFINITIONS</a>                    | 4  |
| <a href="#">SEALING METHODS &amp; TECHNOLOGIES</a>       | 6  |
| <a href="#">HOW TO ID BRITISH THREADS &amp; FITTINGS</a> | 10 |
| <a href="#">HOW TO ID METRIC THREADS &amp; FITTINGS</a>  | 12 |
| <a href="#">HOW TO INSTALL FITTINGS &amp; ADAPTERS</a>   | 16 |

## PRODUCTS

### FEATURED

|                                   |    |
|-----------------------------------|----|
| <a href="#">THREAD GAUGES</a>     | 23 |
| <a href="#">KITS</a>              | 24 |
| <a href="#">STOCKING PROGRAMS</a> | 28 |

### STEEL

|  |    |
|--|----|
| <a href="#">BANJO ADAPTERS</a>                 | 29 |
| <a href="#">24° DIN TUBE ADAPTERS/FITTINGS</a> | 31 |
| <a href="#">INTERNATIONAL ADAPTERS</a>         | 44 |

### STAINLESS STEEL

|  |    |
|--|----|
| <a href="#">24° DIN TUBE ADAPTERS/FITTINGS</a> | 76 |
| <a href="#">INTERNATIONAL ADAPTERS</a>         | 81 |

### BRASS

|   |    |
|---|----|
| <a href="#">COMPRESSION, POLYTUBE &amp; PUSH TO CONNECT</a> | 87 |
| <a href="#">INTERNATIONAL ADAPTERS</a>                      | 90 |

### MALLEABLE IRON

|                                   |    |
|-----------------------------------|----|
| <a href="#">BSP PIPE FITTINGS</a> | 94 |
|-----------------------------------|----|

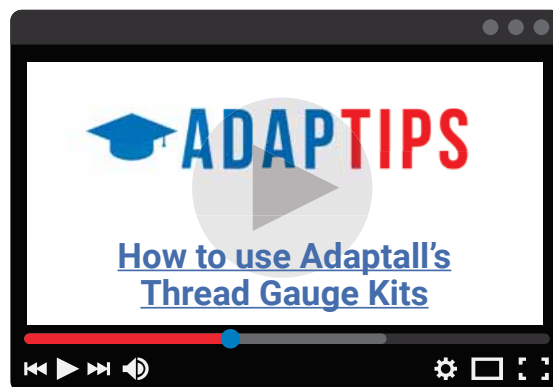
## QUICK REFERENCE

|  |     |
|--|-----|
| <a href="#">STRAIGHT MALE X MALE</a>     | 96  |
| <a href="#">STRAIGHT MALE X FEMALE</a>   | 99  |
| <a href="#">STRAIGHT FEMALE X FEMALE</a> | 101 |
| <a href="#">STRAIGHT OTHER/MISC</a>      | 102 |
| <a href="#">45° ELBOWS</a>               | 103 |
| <a href="#">90° ELBOWS</a>               | 104 |
| <a href="#">PLUGS &amp; CAPS</a>         | 107 |
| <a href="#">TEES &amp; CROSSES</a>       | 108 |
| <a href="#">COMPONENTS</a>               | 111 |

## ABOUT

|  |     |
|--|-----|
| <a href="#">COMPLIANCES</a>                      | 112 |
| <a href="#">FITTING &amp; PLATING STANDARDS</a>  | 112 |
| <a href="#">MATERIAL SPECS</a>                   | 112 |
| <a href="#">WARRANTY, TERMS &amp; CONDITIONS</a> | 112 |

## VIDEOS



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**EMAIL** [sales@adaptall.com](mailto:sales@adaptall.com)

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# TUTORIALS TERMS & DEFINITIONS

TUTORIALS

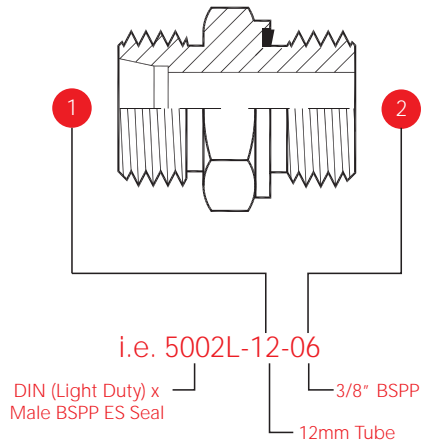
## Metric Fittings vs. Metric Threads

The terminology used to describe the majority of foreign threaded fittings can be confusing to some. Metric fitting is a loose term describing fitting bodies with foreign threads including BSP, DIN, JIS, Kobelco, Komatsu, and Metric, even though some of these are based in imperial or "inch" dimensions. Metric threads, however, refers to a specific type of foreign thread.

FEATURED

## Part Numbering and Hose/Tube Side vs. Port Side

When fittings are classified or part-numbers displayed, the first group of numbers indicates the part series or group, while the dash sizes indicate the thread sizes. The sizes are usually displayed tube or hose side first, meaning that the end connecting to a hose or tube is typically listed as the first dash size. The port side is usually listed as the second dash size.

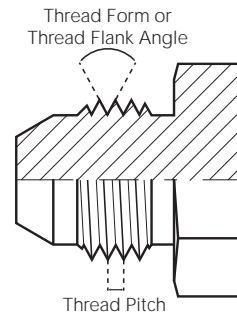


STEEL

STAINLESS STEEL

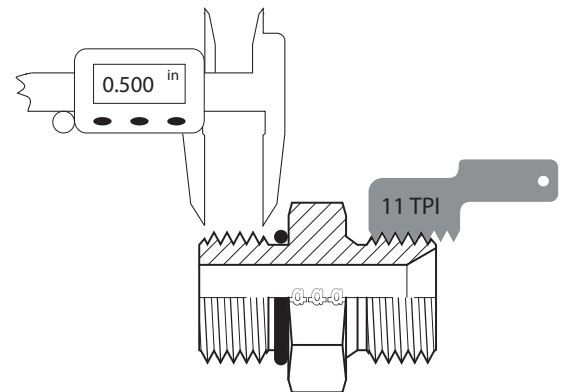
## Thread Form vs. Thread Pitch vs Threads per Inch

When identifying fittings, another important factor to look at is thread form and thread pitch, or threads per inch in other cases. Thread form refers to the angle (in degrees) that exists between adjacent flanks of a thread. This is a difficult method of identification and requires a profile projector to be certain. Thread pitch however, refers to the distance measured between adjacent thread crests, and is typically used when measuring Metric threads.



BRASS

On the other hand, threads per inch or "TPI" is often used, which counts the number of threads over one inch of distance. In some cases, calculations are required i.e. 5.5 threads counted over a 1/2" would mean there are 11 threads over 1". It is recommended to use a thread gauge as it provides the most accurate form of identification.



MEALLEABLE IRON

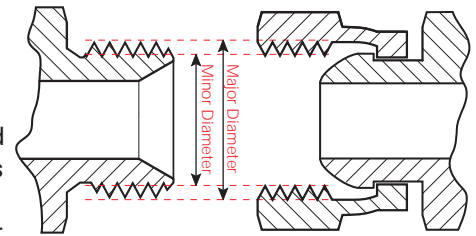
QUICK REFERENCE

ABOUT

| Thread Type     | Thread Flank Angle | TPI vs mm Pitch |
|-----------------|--------------------|-----------------|
| BSPP            | 55°                | TPI             |
| BSPT            | 55°                | TPI             |
| JIC             | 60°                | TPI             |
| JIS             | 55°                | TPI             |
| KOBELCO         | 60°                | mm Pitch        |
| KOMATSU         | 60°                | mm Pitch        |
| METRIC 60°      | 60°                | mm Pitch        |
| METRIC DIN TUBE | 60°                | mm Pitch        |
| NPT             | 60°                | TPI             |
| ORB             | 60°                | TPI             |
| ORFS            | 60°                | TPI             |

## Major vs Minor Thread Diameter

All threads have what's known as a Major Diameter, and a Minor Diameter. Major Diameter is the measurement from thread crest to thread crest, while Minor Diameter is measured from thread root to thread root. With male threads, the Major Diameter (our outer diameter, O.D for short) of the thread could be measured and compared to a chart of various thread types and known Major Diameters/O.D's for identification purposes. For female threads, instead compare the Minor Diameter (also known as internal diameter, or I.D for short). You can compare your caliper readings to published specifications in order to find the closest match.



## Nominal Size vs Dash Size

The 'nominal size' is an engineering term for a non-specific reference or trade size of a part (such as a pipe) that is for identification purposes only and may not match any exact dimension. For example, a 2" nominal pipe has neither a 2" I.D or O.D, but an O.D of 2.375" and an I.D range of 0.065" to 0.436" depending on the schedule. However, a 2" NPT thread would be applicable to all of these because of the common nominal sizing based on approximate outer diameter.

The nominal area of reference depends on the fitting or thread type; this could be based on the thread O.D, thread O.D & pitch (callout), hose/tube/pipe I.D or O.D, and/or tube class. The nominal size is in either inches or mm (millimeters), and the methodology of which usually remains consistent from one vendor to the next. Here are some examples:

| Thread Type | Nominal Size Based On   | Nominal Size Example                 |
|-------------|---|--------------------------------------|
| BSPP        | Hose/tube/pipe I.D (inches)   | 1/4", 3/8", 1/2" etc                 |
| BSPT        | Hose/tube/pipe I.D (inches)   | 1/4", 3/8", 1/2" etc                 |
| DIN Metric  | Pressure class (LL, L, or S) & tube O.D in mm (sometimes thread size &/or pitch included) | L08, L08 14mm, L08-14X1.5, etc. (mm) |
| JIC         | Hose/tube I.D (inches)  | 1/4", 3/8", 1/2" etc                 |
| JIS         | Hose/tube I.D (inches)  | 1/4", 3/8", 1/2" etc                 |
| Kobelco     | Tube O.D & thread O.D (pressure class always L and is pitch always 1.5)                   | 22-30 (22mm tube, 30x1.5 thread)     |
| Komatsu     | Thread O.D (mm) - always a 1.5 pitch  | 14mm                                 |
| Metric      | Thread O.D (mm) – sometimes thread pitch is included especially if non-standard           | 14mm, 14X1.5, 14X1.0, etc            |
| NPT         | Pipe O.D (inches)   | 1/4", 3/8", 1/2" etc                 |
| ORB         | Hose/tube I.D (inches)  | 1/4", 3/8", 1/2" etc                 |

Once the nominal size of the thread is determined, the nominal size needs to be converted to a 'dash size' for ordering. A dash size is simply a 2-digit reference for sizing a hose, tube, pipe or fitting, and is displayed as a fraction of 16. Each size increments by 1/16" if the nominal sizing is based on inches, then drop the /16. For example, 1/2" converts to 8/16" which is the same as a -08 (dash zero eight).

However, if the nominal size is metric (mm) based, then no calculation is required - simply drop the mm. For example, a 30mm thread has a dash of -30 (dash thirty). If the thread pitch is nonstandard for that Metric thread, then the thread pitch is sometimes displayed in the dash size i.e. 30x1.5 (standard thread pitch for 30mm is 2.0).

| Inch Fraction | Dash Size |
|---------------|-----------|
| 1/8"          | 02        |
| 3/16"         | 03        |
| 1/4"          | 04        |
| 5/16"         | 05        |
| 3/8"          | 06        |
| 7/16"         | 07        |
| 1/2"          | 08        |
| 5/8"          | 10        |
| 3/4"          | 12        |
| 7/8"          | 14        |
| 1"            | 16        |
| 1-1/4"        | 20        |
| 1-1/2"        | 24        |
| 2"            | 32        |
| 2-1/2"        | 40        |
| 3"            | 48        |

| Metric Thread (O.D) | Standard Thread Pitch (mm) |
|---------------------|----------------------------|
| 6mm                 | 1.0                        |
| 8mm                 | 1.0                        |
| 10mm                | 1.0                        |
| 12mm                | 1.5                        |
| 14mm                | 1.5                        |
| 16mm                | 1.5                        |
| 18mm                | 1.5                        |
| 20mm                | 1.5                        |
| 22mm                | 1.5                        |
| 24mm                | 1.5                        |
| 26mm                | 1.5                        |
| 27mm                | 2.0                        |
| 30mm                | 2.0                        |
| 33mm                | 2.0                        |
| 36mm                | 2.0                        |
| 42mm                | 2.0                        |
| 45mm                | 2.0                        |
| 52mm                | 2.0                        |

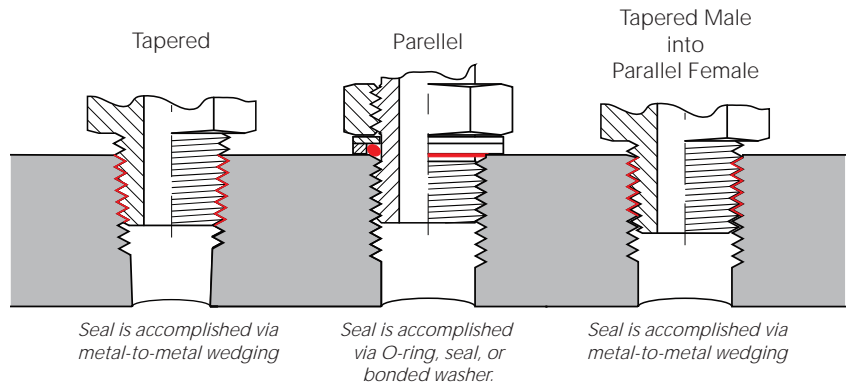
# TUTORIALS SEALING METHODS

TUTORIALS  
FEATURED  
STEEL  
STAINLESS STEEL  
BRASS  
MEALLEABLE IRON  
QUICK REFERENCE  
ABOUT

## Port Fittings - Tapered vs. Parallel Threads

If dealing with a port fitting, the first step towards thread identification is to determine whether the thread is parallel or tapered. Parallel means the thread walls are straight; while tapered means the thread walls, if continued lengthwise, would eventually meet. A seal must be used for all parallel fittings in port application, with the exception of Cutting Face fittings, however these are fairly rare. It is important to note that BSPT (British Standard Pipe – Tapered) can seal into a parallel BSP port, and Metric Tapered threads are capable of sealing into a parallel Metric port.

This first step will help you eliminate a number of possible thread types, as well as possibly reveal the method of sealing. For a parallel thread in port application, the fitting will usually seal at the top of the thread by means of an O-ring or seal. With a tapered thread, the fitting typically seals via metal-to-metal wedging of the threads. A thread sealant is applied prior to installation to reduce instances of leakage on tapered threads.



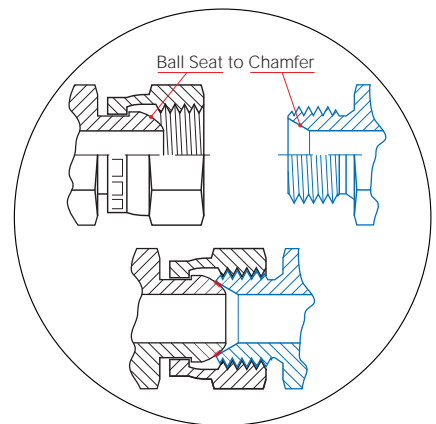
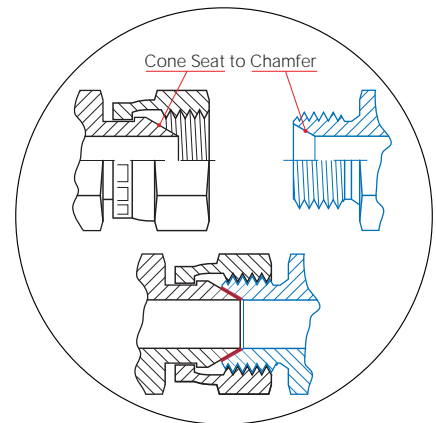
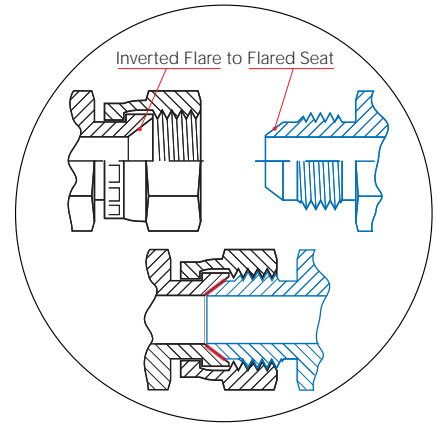
| Tapered Male X Tapered Female<br><i>Seals via thread wedging</i> | Parallel Male X Parallel Female<br><i>Seals via O-ring/Bonded Seal</i> | Tapered Male X Parallel Female<br><i>Seals via thread wedging</i> |
|--|--|---|
| BSPT   | BSPP   | M-BSPT X F-BSPP (port/ fixed female only)                         |
| Metric Taper   | Metric   | M-Metric Taper X F-Metric (port/ fixed female only)               |
| NPT  | SAE O-ring Boss  |   |

## Flared Seat vs Cone Seat vs Ball Seat

The ability to properly identify seats, chamfers, and their corresponding angles can also be a benefit to overall fitting identification. Flared seats refer to the protruding “nose cone” on a male thread, but also the corresponding inverted flare in a female thread. Chamfer is a term assigned to the internally bevelled sealing surface inside of a male thread, which mates with a female cone seat and is typically angled at 30°/60°. Please note the language is interchangeable i.e. Chamfers can also be referred to as Inverted Flared Seats and vice versa.

Ball seats however refer to the spherical sealing surface inside a female thread (swivel only) that seals with the chamfer on the inside of a male thread. These sealing systems all share a common trait in that there is a metal-to-metal seal created where the male and female surfaces contact (not including the threads).

| Flared Seat                | Cone Seat                | Ball Seat              |
|----------------------------|--------------------------|------------------------|
| JIC                        | BSPP                     | Metric (female swivel) |
| JIS                        | DIN DKO Metric           | NPSM (brass ball seat) |
| Komatsu                    | NPT (NPSM female swivel) |                        |
| Metric Chinese<br>GB 37/74 |                          |                        |





# TUTORIALS SEALING METHODS

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FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

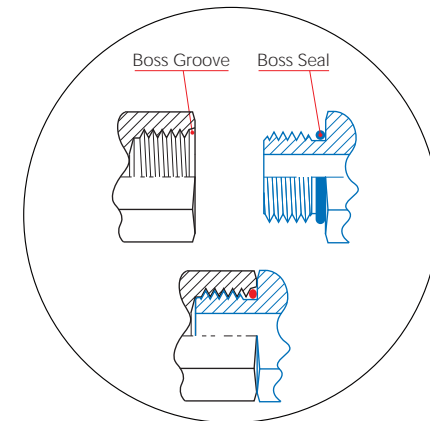
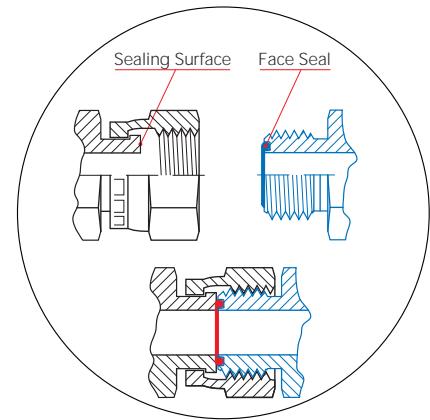
ABOUT

## Face Seal vs Boss Seal

Both Face Sealing and Boss Sealing fitting types utilize an encapsulated O-ring in order to create a seal. The difference is that Face Seal fittings have the O-ring located in the grooved area at the end of the male thread, while Boss Seal fittings have the O-ring located at the base of the male thread. The corresponding female Face Seal fitting has a flat sealing surface that engages the O-ring in the male fitting and compresses it as the fittings are threaded together and creates a seal. Boss Seal female fittings on the other hand have a grooved "boss" before the first thread that acts to encapsulate the O-ring on the male thread thereby creating a seal.

The most popular Face Seal fitting type is O-ring Face Seal, however this can be easily confused with HIAB or GB Face Seal fittings which also utilize Face Sealing. The most popular Boss Seal fitting type is O-ring Boss, however this can be easily confused with Metric ISO 6141 which utilizes Metric threads and a Boss Seal.

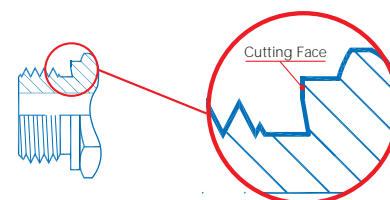
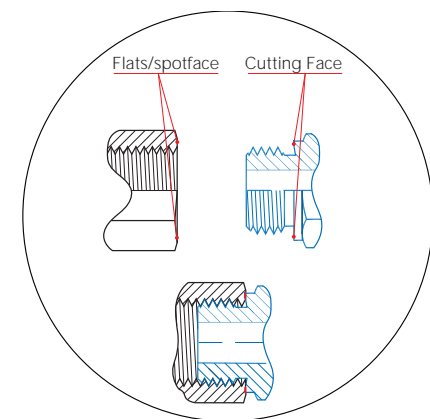
| Face Seal Fitting Types     | Boss Seal Fitting Types |
|-----------------------------|-------------------------|
| O-ring Face Seal            | SAE O-ring Boss         |
| HIAB                        | Metric ISO 6141         |
| Metric Chinese GB Face Seal |                         |



## Metal to Metal Sealing

One of the rarer methods of sealing a fitting in port is Metal to Metal Sealing, also known as Cutting Face or Type B. This design creates a seal by means of a sharp "cutting face" at the base of the male thread that cuts into the flats or "spotface" surrounding the port when the fitting is threaded and tightened.

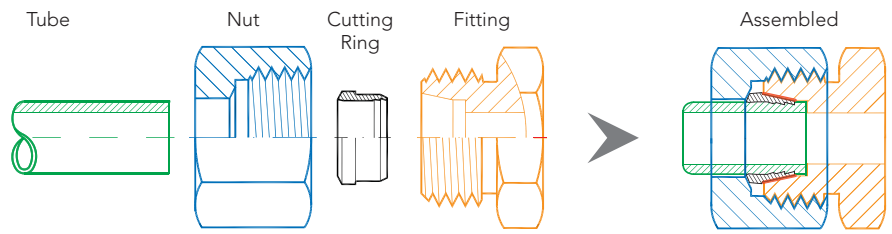
Cutting Face Type B is available in BSPP (ISO 1179-4) and Metric (ISO 9974-3), although it is commonly mis-identified as regular BSPP or Metric port fitting with the seal missing. Look for a raised outer section on the male fitting where the bonded washer or seal would go; if it exists this indicates the fitting is Cutting Face.





## 24° DIN Tube Fittings

DIN fittings have a 24° tapered throat angle that exists inside the male threads. To achieve a tube connection, a tube nut is tightened over the metric threads (hardened pre-assembly fitting bodies are recommended for installation) forcing a ferrule or cutting ring to grip the tube. By having the nut securely fastened to the tube fitting, both compress the cutting ring which holds the assembly in place and creates a seal. This sealing style also includes Kobelco fittings which are essentially an L-series Metric thread with a 1.5mm thread pitch in all sizes.



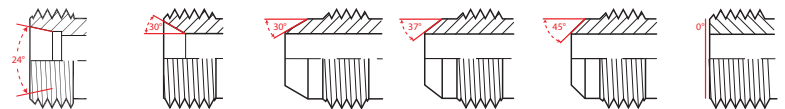
DIN 24° fittings and accessories belong to one of three **Pressure Classes**: LL series for Extra Light duty, L series for Light duty, and S series for Heavy duty applications.

### 24° Metric Compression Fitting Types

- DIN Tube
- Kobelco
- Japan Steel Works (JSW)
- French GAZ

## Sealing Surface Angles

The angle sealing surfaces on fittings can be used to aid in fitting identification. There are a few ways to identify this angle, such as by means of angle gauge or by profile projector.



| 24° Internal Chamfer | 30° Internal Chamfer | 30° External Flare | 37° External Flare  | 45° External Flare | None/Flat                |
|----------------------|----------------------|--------------------|---------------------|--------------------|--------------------------|
| DIN Metric           | BSPP                 | Komatsu            | JIC                 | SAE 45°            | ORFS                     |
| Kobelco              | DIN 7631 Metric      | JIS                | GB Metric (Chinese) | AN 45°             | ORB                      |
| JSW                  | NPTF/<br>NPSM        |                    |                     |                    | ISO 6149 Metric          |
| French GAZ           |                      |                    |                     |                    | BSPP & Metric Port       |
|                      |                      |                    |                     |                    | Chinese Face Seal Metric |
|                      |                      |                    |                     |                    | BSPT                     |

# TUTORIALS HOW TO ID BRITISH THREADS & FITTINGS

British Standard Pipe fittings are among the most popular of all foreign threads in the world today. These threads come in two versions: parallel (BSPP), and tapered (BSPT). The thread flank angle for both tapered and parallel British threads is 55°. Although BSP is a foreign thread, it isn't actually metric. This is why it comes in Imperial sizes: 1/8, 1/4, 1/2, 3/4, etc.

BSP parallel (BSPP) threads commonly seal via a 30° chamfer on the male thread to a 30° cone seat inside the female thread (swivel only). If it is a port application, an O-ring and washer, Elastomeric seal or a bonded washer are needed to achieve a proper seal for parallel threads. For tapered BSP threads (BSPT), a seal is accomplished via thread wedging with additional support from thread dope or tape. As previously mentioned, it is possible for a male BSPT (tapered) to thread into a female BSPP (parallel), so long as the female thread is fixed and not swivel (this is because the recessed cone seat could interfere with clearance). To identify a BSPP fitting complete the following steps:

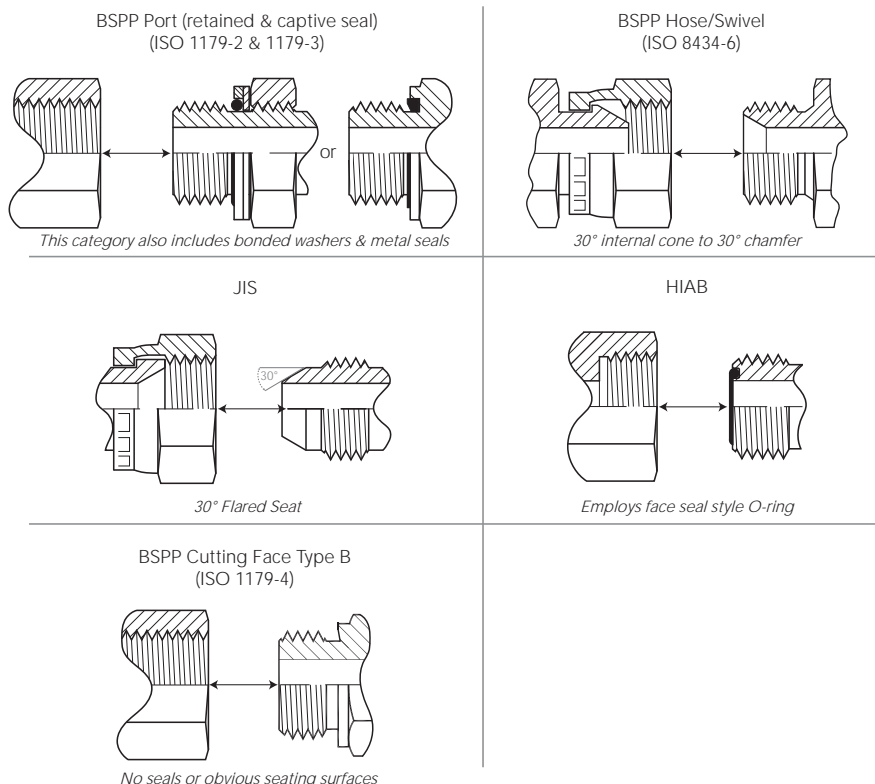
- 1) Confirm the thread is parallel or tapered.
- 2) Determine the threads per inch (TPI) count using a thread gauge or calipers.
- 3) Determine the thread O.D (male thread) or I.D (female thread) using calipers.
- 4) Find a match on the adjacent chart by combining your O.D or I.D measurement with the TPI you measured.
- 5) If a seal or angled sealing surface exists, use it to identify which specific type of British fitting it is on the chart to the right.
- 6) To simplify this process, try Adaptall's TKG (thread gauge kit). See page 23.

Use the diagram to your right to confirm what type of British fitting you have. Use caution as "multi-purpose fittings" exist that accommodate 2 or more sealing styles in one fitting (such as Adaptall's 9005ES series that can be used for BSPP port or swivel connection).

## BSPP Thread Specification Chart

| Dash Size | Nom. Size | Threads per inch (TPI) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|-----------|-----------|------------------------|----------------------|--------------------------|------------------------|----------------------------|
| 02        | 1/8       | 28                     | 9.6                  | 0.38                     | 8.6                    | 0.34                       |
| 04        | 1/4       | 19                     | 13                   | 0.51                     | 11.9                   | 0.47                       |
| 06        | 3/8       | 19                     | 16.5                 | 0.65                     | 15.2                   | 0.6                        |
| 08        | 1/2       | 14                     | 20.8                 | 0.82                     | 19.1                   | 0.75                       |
| 10        | 5/8       | 14                     | 22.8                 | 0.9                      | 20.8                   | 0.82                       |
| 12        | 3/4       | 14                     | 26.3                 | 1.04                     | 24.6                   | 0.97                       |
| 16        | 1         | 11                     | 33.1                 | 1.3                      | 30.7                   | 1.21                       |
| 20        | 1-1/4     | 11                     | 41.8                 | 1.64                     | 39.4                   | 1.55                       |
| 24        | 1-1/2     | 11                     | 47.7                 | 1.88                     | 45.5                   | 1.79                       |
| 32        | 2         | 11                     | 59.5                 | 2.34                     | 57.4                   | 2.26                       |
| 40        | 2-1/2     | 11                     | 75.1                 | 2.95                     | 72.6                   | 2.86                       |
| 48        | 3         | 11                     | 87.9                 | 3.46                     | 85.4                   | 3.36                       |

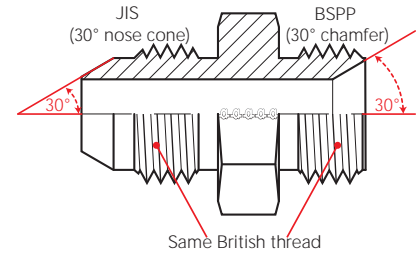
## BSPP Threads and Sealing Methods



# TUTORIALS HOW TO ID BRITISH THREADS & FITTINGS

## Japanese (JIS) tapered and parallel fittings

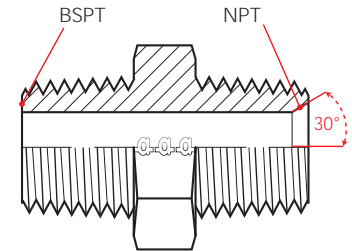
Japanese (JIS) tapered and parallel fittings are identical to British standard pipe threads, and are therefore considered to be in the 'British Fitting' group. The only difference is that parallel JIS threads have a 30° cone seat on the male end, and a 30° flared seat on the female ends. JIS tapered threads are identical to BSPT threads. Please refer to the BSPP and BSPT thread charts above for details.



## British tapered threads (BSPT)

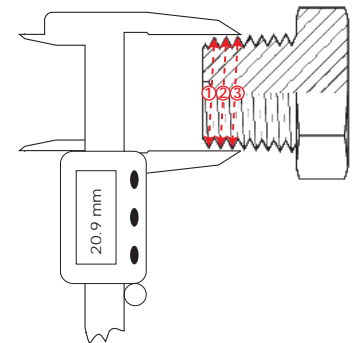
For British tapered threads (BSPT) caution should be taken as the most common tapered fitting in North America is NPT. The easiest way to distinguish any tapered fitting type from NPT is to verify if a chamfered sealing surface exists. If it does the fitting is most likely NPT. If not, it is either BSPT or Metric Taper (Metric Taper is far less common).

To verify the thread is BSPT, you would undergo the same steps as for a parallel British thread. First, verify the number of threads per inch. Second, measure the O.D. at the 3-4th thread from the end of the fitting. You can cross-reference your measurements to the following chart in order to verify the fitting is BSPT.



## BSPT Thread Specification Chart

| Dash Size | Nom. Thread Size | Threads per inch (TPI) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|-----------|------------------|------------------------|----------------------|--------------------------|------------------------|----------------------------|
| 02        | 1/8              | 28                     | 9.6                  | 0.38                     | 8.6                    | 0.339                      |
| 04        | 1/4              | 19                     | 13.1                 | 0.516                    | 11.2                   | 0.441                      |
| 06        | 3/8              | 19                     | 16.6                 | 0.654                    | 14.7                   | 0.579                      |
| 08        | 1/2              | 14                     | 20.9                 | 0.823                    | 18.3                   | 0.720                      |
| 10        | 5/8              | 14                     | 22.9                 | 0.902                    | 20.6                   | 0.811                      |
| 12        | 3/4              | 14                     | 26.4                 | 1.039                    | 23.9                   | 0.941                      |
| 16        | 1                | 11                     | 33.2                 | 1.307                    | 29.7                   | 1.169                      |
| 20        | 1-1/4            | 11                     | 41.9                 | 1.65                     | 38.6                   | 1.520                      |
| 24        | 1-1/2            | 11                     | 47.8                 | 1.882                    | 44.5                   | 1.752                      |
| 32        | 2                | 11                     | 59.6                 | 2.346                    | 56.4                   | 2.220                      |
| 40        | 2-1/2            | 11                     | 75.2                 | 2.961                    | 71.9                   | 2.831                      |
| 48        | 3                | 11                     | 87.8                 | 3.457                    | 84.6                   | 3.331                      |



NOTE: It is a fairly common mistake to identify a BSPT (tapered) as an NPT. Always remember that NPT fittings have a 30° chamfered sealing surface while BSPT do not. Always use a thread gauge to be certain.

# TUTORIALS HOW TO ID METRIC THREADS & FITTINGS

Metric threads share many characteristics with British threads, so caution must be taken when attempting to differentiate the two. First, if the Metric thread is DIN 7631 it will have a 30° chamfer on the male thread, the same as a BSPP male. For fittings in port application, Metric fittings (ISO 9974) also mimic BSPP (ISO 1179) stud ends with the only difference being the threads. BSPT fittings closely resemble Metric taper fittings, although Metric taper is far less common. There are also variations of the sealing surfaces among different Metric fitting types that can create difficulty when attempting to identify.

For Metric parallel threads, taking a caliper reading of the threads outer diameter in millimetres (mm) will give a reading of the exact thread size but not the thread pitch. For example, a caliper reading of 12.03mm indicates it is very likely a 12mm thread. We still do not know however if it is 1.0 or 1.5 thread pitch (or some other pitch).

These steps should be taken in order to ensure you have successfully identified the proper Metric thread:

1. Identify if the thread is parallel or tapered
2. Determine the thread pitch in mm using a thread gauge or calipers (typically 1.0, 1.5, or 2.0, but other sizes do exist)
3. Determine the thread O.D (male thread) or I.D (female thread) using calipers.
4. Find the closest match on the adjacent chart (thread O.D and pitch combine into a "thread callout" such as M12 x 1.5 indicating a 12mm O.D with 1.5mm pitch)
5. If a seal or angled sealing surface exists, use it to identify which specific type of Metric fitting it is on next page's chart.
- 6) To simplify this process, try Adaptall's TGK (thread gauge kit). See page 23.

**Metric Thread Specification Chart**

| Thread Callout | Thread Pitch (mm) | Male Thread O.D (mm) | Male Thread O.D (inches) | Female Thread I.D (mm) | Female Thread I.D (inches) |
|----------------|-------------------|----------------------|--------------------------|------------------------|----------------------------|
| M8 X 1.0       | 1.0               | 8.0                  | 0.315                    | 6.9                    | 0.272                      |
| M10 X 1.0      | 1.0               | 10.0                 | 0.394                    | 8.9                    | 0.35                       |
| M10 X 1.5      | 1.5               | 10.0                 | 0.394                    | 8.4                    | 0.331                      |
| M12 X 1.0      | 1.0               | 12.0                 | 0.472                    | 10.9                   | 0.429                      |
| M12 X 1.5      | 1.5               | 12.0                 | 0.472                    | 10.4                   | 0.409                      |
| M14 X 1.5      | 1.5               | 14.0                 | 0.551                    | 12.4                   | 0.488                      |
| M16 X 1.5      | 1.5               | 16.0                 | 0.63                     | 14.4                   | 0.567                      |
| M18 X 1.5      | 1.5               | 18.0                 | 0.709                    | 16.4                   | 0.646                      |
| M20 X 1.5      | 1.5               | 20.0                 | 0.787                    | 18.4                   | 0.724                      |
| M22 X 1.5      | 1.5               | 22.0                 | 0.866                    | 20.4                   | 0.803                      |
| M24 X 1.5      | 1.5               | 24.0                 | 0.945                    | 22.4                   | 0.882                      |
| M26 X 1.5      | 1.5               | 26.0                 | 1.024                    | 24.4                   | 0.961                      |
| M27 X 2.0      | 2.0               | 27.0                 | 1.063                    | 24.8                   | 0.976                      |
| M30 X 2.0      | 2.0               | 30.0                 | 1.181                    | 27.8                   | 1.094                      |
| M33 X 2.0      | 2.0               | 33.0                 | 1.299                    | 30.8                   | 1.213                      |
| M36 X 2.0      | 2.0               | 36.0                 | 1.417                    | 33.8                   | 1.331                      |
| M42 X 2.0      | 2.0               | 42.0                 | 1.654                    | 39.8                   | 1.567                      |
| M45 X 2.0      | 2.0               | 45.0                 | 1.772                    | 42.8                   | 1.685                      |
| M48 X 2.0      | 2.0               | 48.0                 | 1.89                     | 45.8                   | 1.803                      |
| M52 X 2.0      | 2.0               | 52.0                 | 2.047                    | 49.8                   | 1.961                      |
| M60 X 2.0      | 2.0               | 60.0                 | 2.362                    | 57.8                   | 2.276                      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

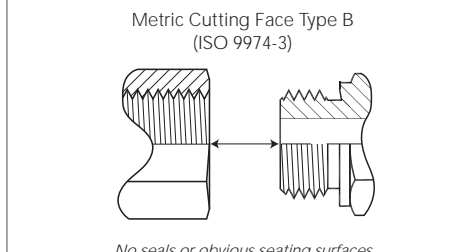
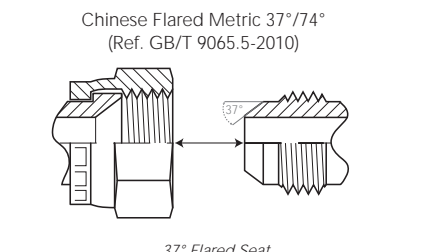
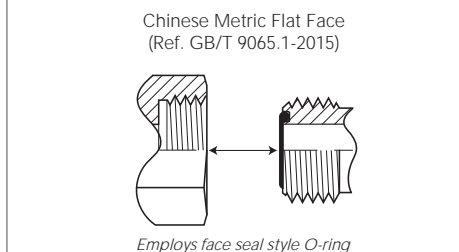
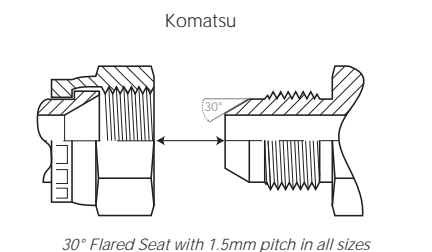
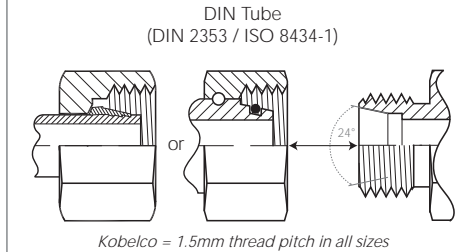
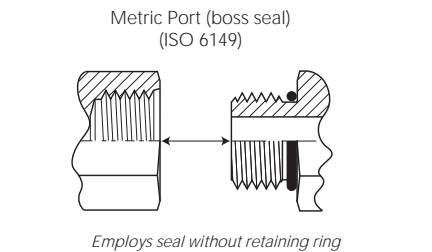
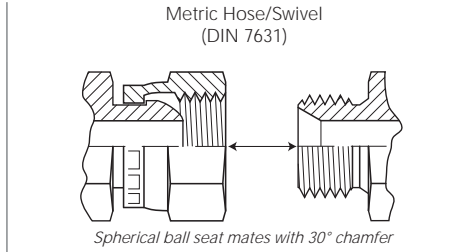
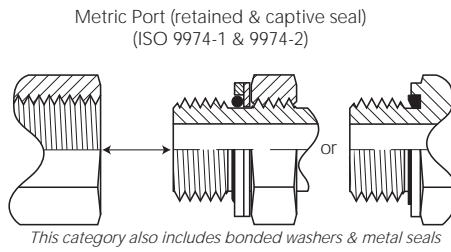
MEALLEABLE IRON QUICK REFERENCE

ABOUT

# TUTORIALS HOW TO ID METRIC THREADS & FITTINGS

If you have identified the fitting as having a Metric thread you still need to determine what version or style of Metric Fitting it is.

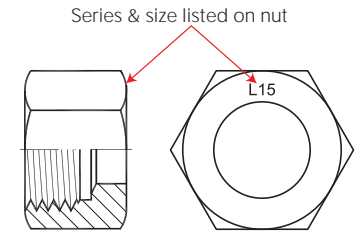
## Metric Threads and Methods of Sealing



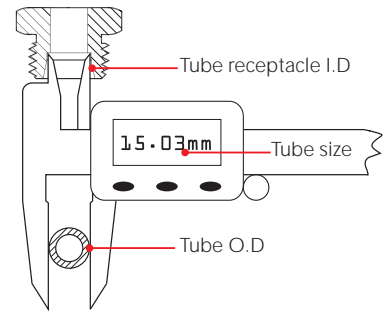
# TUTORIALS HOW TO ID METRIC THREADS & FITTINGS

## DIN Tube Fittings

As previously mentioned, DIN tube fittings have a 24° tapered throat on the inside of the male fitting which should clearly identify it as being DIN if a Metric thread has also been identified. To identify which series and tube size the fitting belongs to, examine the tube nut: most manufacturers indicate the tube series and size on the nut itself. The system used for this marking combines TUBE SERIES with TUBE O.D, for example: the size of 15mm tube in the L series is shortened to L15.



If the series and size is not listed on the part, match the tube O.D with the metric thread callout (thread size and thread pitch in mm) on the chart provided to find the corresponding tube series and size:



## DIN Tube Extra Light Duty (LL), Light Duty (L) & Heavy Duty (S) Component Compatibility Chart

| Tube Series                  | Tube O.D    | Metric Thread Callout | Tube Nut Part # | Cutting Ring Part # | Tube Plug Part # | Tube Cap Part # |
|------------------------------|-------------|-----------------------|-----------------|---------------------|------------------|-----------------|
| LL<br>Extra<br>Light<br>Duty | 4 mm        | 8 mm x 1.0            | 5201LL-04       | 5202LL-04           | -                | -               |
|                              | 6 mm        | 10 mm x 1.0           | 5201LL-06       | 5202LL-06           | -                | -               |
|                              | 8 mm        | 12 mm x 1.0           | 5201LL-08       | 5202LL-08           | -                | -               |
|                              | 10 mm       | 14 mm x 1.0           | 5201LL-10       | 5202LL-10           | -                | -               |
|                              | 12 mm       | 16 mm x 1.0           | 5201LL-12       | 5202LL-12           | -                | -               |
| L<br>Light<br>Duty           | 6 mm        | 12 mm x 1.5           | 5201L-06        | 5202-06             | 5203L-06         | 5204L-06        |
|                              | 8 mm        | 14 mm x 1.5           | 5201L-08        | 5202-08             | 5203L-08         | 5204L-08        |
|                              | 10 mm       | 16 mm x 1.5           | 5201L-10        | 5202-10             | 5203L-10         | 5204L-10        |
|                              | 12 mm       | 18 mm x 1.5           | 5201L-12        | 5202-12             | 5203L-12         | 5204L-12        |
|                              | 15 mm       | 22 mm x 1.5           | 5201L-15        | 5202-15             | 5203L-15         | 5204L-15        |
|                              | 18 mm       | 26 mm x 1.5           | 5201L-18        | 5202-18             | 5203L-18         | 5204L-18        |
|                              | 22 mm       | 30 mm x 2.0           | 5201L-22        | 5202-22             | 5203L-22         | 5204L-22        |
|                              | 28 mm       | 36 mm x 2.0           | 5201L-28        | 5202-28             | 5203L-28         | 5204L-28        |
|                              | 35 mm       | 45 mm x 2.0           | 5201L-35        | 5202-35             | 5203L-35         | 5204L-35        |
|                              | 42 mm       | 52 mm x 2.0           | 5201L-42        | 5202-42             | 5203L-42         | 5204L-42        |
| S<br>Heavy<br>Duty           | 6 mm        | 14 mm x 1.5           | 5201S-06        | 5202-06             | 5203S-06         | 5204S-06        |
|                              | 8 mm        | 16 mm x 1.5           | 5201S-08        | 5202-08             | 5203S-08         | 5204S-08        |
|                              | 10 mm       | 18 mm x 1.5           | 5201S-10        | 5202-10             | 5203S-10         | 5204S-10        |
|                              | 12 mm       | 20 mm x 1.5           | 5201S-12        | 5202-12             | 5203S-12         | 5204S-12        |
|                              | 14 mm       | 22 mm x 1.5           | 5201S-14        | 5202-14             | 5203S-14         | 5204S-14        |
|                              | 16 mm       | 24 mm x 1.5           | 5201S-16        | 5202-16             | 5203S-16         | 5204S-16        |
|                              | 20 mm       | 30 mm x 2.0           | 5201S-20        | 5202-20             | 5203S-20         | 5204S-20        |
|                              | 25 mm       | 36 mm x 2.0           | 5201S-25        | 5202-25             | 5203S-25         | 5204S-25        |
|                              | 30 mm       | 42 mm x 2.0           | 5201S-30        | 5202-30             | 5203S-30         | 5204S-30        |
| 38 mm                        | 52 mm x 2.0 | 5201S-38              | 5202-38         | 5203S-38            | 5204S-38         |                 |

# TUTORIALS HOW TO ID METRIC THREADS & FITTINGS

## Kobelco Fittings

Kobelco fittings are essentially the same as 24° DIN Metric tube fittings however all sizes of Kobelco threads have a 1.5mm pitch. All tube accessories for Kobelco fittings belong to the L series and are fully interchangeable. However, the only sizes that are truly unique to Kobelco are in the list below.

### Kobelco Component Compatibility Chart

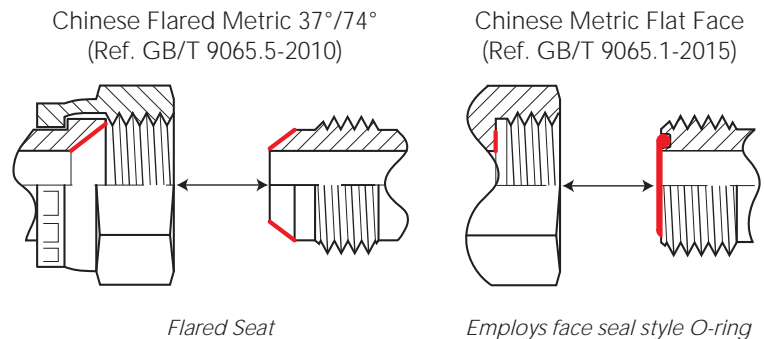
| Tube Series | Tube O.D | Metric Thread Callout | Tube Nut Part # | Cutting Ring Part # | Tube Plug Part # | Tube Cap Part # |
|-------------|----------|-----------------------|-----------------|---------------------|------------------|-----------------|
| L           | 22 mm    | 30 mm x 1.5           | 5201L-22-30X1.5 | 5202-22             | 9248-22-30       | 9249-22-30      |
|             | 28 mm    | 36 mm x 1.5           | 5201L-28-36X1.5 | 5202-28             | 9248-28-36       | 9249-28-36      |
|             | 35 mm    | 45 mm x 1.5           | 5201L-35-45X1.5 | 5202-35             | 9248-35-45       | 9249-35-45      |

## Komatsu Fittings

Komatsu fittings have a 1.5mm thread pitch in all sizes and seals via a 30°/60° cone seat. If you identify a Metric thread with a nose cone be very careful to distinguish if it's actually a 30°/60° (Komatsu) cone seat instead of 37°/74° (GB Chinese).

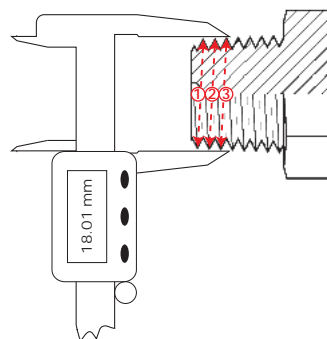
### 37°/74° and Flat Face Chinese Metric Fittings

These fittings are becoming more commonly exported out of China on heavy equipment using Chinese standards. What defines these standards are that they both utilise North American styles of sealing but with Metric threads. This includes O-ring face seal (ORFS) and 37° flared seat (JIC) sealing methods, however the UN and SAE threads are replaced with Metric and do not follow traditional thread pitches in all sizes.



### Metric Taper Threads

If you have a Metric tapered thread, one would undergo the same initial steps for identification of thread pitch as a parallel Metric thread. Also similar to parallel Metric threads is that an O.D measurement will reveal the actual thread size (i.e. 18.01mm measurement means the thread is likely M18). However, to do this accurately with Tapered Metric threads one must measure the O.D at the third row of threads from the end of the fitting.





# TUTORIALS HOW TO INSTALL FITTINGS & ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

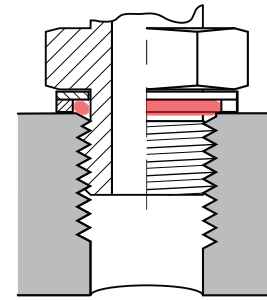
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QUICK REFERENCE

ABOUT

## Installation of Non-Adjustable & Straight Port Fittings

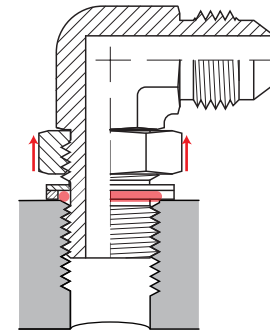
1. Observe unassembled parts, especially threads and bore to ensure it is free of foreign material, burrs, nicks, etc.
2. Make sure compound/material and hardness of O-ring are suitable for the medium type and temperature.
3. Observe O-ring for nicks or cuts and replace if any found. Never use a damaged O-ring!
4. Install O-ring on male thread and make sure the O-ring is not cocked or twisted. Abut O-ring to the base of the thread.
5. Lubricate the O-ring with a light coat of the system's fluid or suitable lubricant.
6. Install retaining ring over the O-ring (if included) and ensure O-ring is seated inside the retaining ring evenly.
7. Screw and tighten the fitting or adapter into the port using suggested torque values.
8. Inspect the assembly to ensure the O-ring is properly seated and there are no leaks.



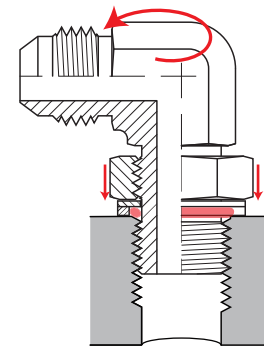
*O-ring is properly installed and fitting torqued*

## Installation of Adjustable Port Fittings

1. Following the above steps (Non-Adjustable & Straight Port Fittings) and stop after step 6.
2. Back off the adjustable nut and backup washer as far back as possible, ensuring the threads are fully exposed.
3. Thread fitting into the port until the seal comes into full contact with the spotface (do not overtighten).
4. If installing an elbow, align the direction of the hose or tube end to a desirable orientation by unscrewing the fitting, but be sure not to go past one full turn.
5. Utilizing 2 wrenches (one being a torque wrench), hold the fitting in position with one wrench while tightening the adjustable nut with the torque wrench. Use suggested torque values.
6. Inspect the assembly to ensure that the O-ring & retaining ring are properly seated, and that there are no leaks.
7. If a crowsfoot is used with a torque wrench, adjustments might need to be made to the torque settings otherwise overtightening could occur. Consult your manufacturer for instructions.



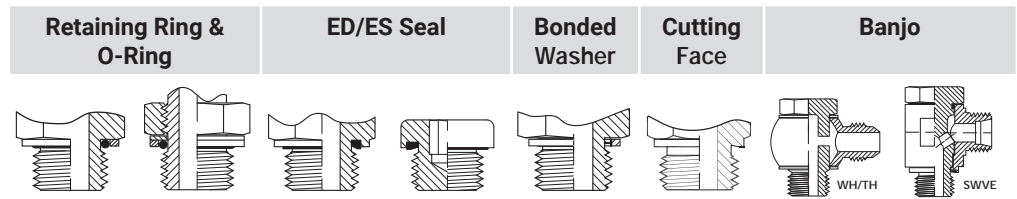
*Adjustable nut and washer are backed all the way off. Fitting is threaded in until seal is touching the port. Fitting is not oriented yet.*



*Orient the fitting to face direction of hose or tube by loosening the fitting, but not more than one turn. Then torque the adjustable nut to suggested setting while holding the fitting body.*

# TUTORIALS HOW TO INSTALL FITTINGS & ADAPTERS

## BSPP Port – Torque Settings



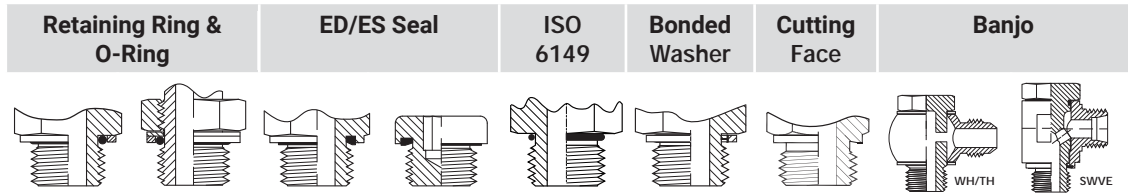
|                  | Dash Size | Inch Thread Size-TPI | Retaining Ring & O-Ring |                 | ED/ES Seal    |            | Bonded Washer | Cutting Face  | Banjo               |                 |
|------------------|-----------|----------------------|-------------------------|-----------------|---------------|------------|---------------|---------------|---------------------|-----------------|
|                  |           |                      | Straight (Nm)           | Adjustable (Nm) | Straight (Nm) | Plugs (Nm) | Straight (Nm) | Straight (Nm) | With Copper Washers | With Soft Seals |
| Light Series (L) | 02        | 1/8-28               | 18                      | 18              | 18            | 13         | 9             | 18            | 18                  | 18              |
|                  | 04        | 1/4-19               | 35                      | 35              | 35            | 30         | 35            | 35            | 45                  | 40              |
|                  | 06        | 3/8-19               | 70                      | 70              | 70            | 60         | 45            | 70            | 70                  | 65              |
|                  | 08        | 1/2-14               | 90                      | 90              | 90            | 80         | 65            | 140           | 120                 | 90              |
|                  | 12        | 3/4-14               | 180                     | 180             | 180           | 140        | 90            | 180           | 230                 | 125             |
|                  | 16        | 1-11                 | 310                     | 310             | 310           | 200        | 150           | 330           | 320                 |                 |
|                  | 20        | 1-1/4-11             | 450                     | 450             | 450           | 400        | 240           | 540           | 540                 |                 |
|                  | 24        | 1-1/2-11             | 540                     | 540             | 540           | 450        | 290           | 630           | 700                 |                 |
| Heavy Series (S) | 04        | 1/4-19               | 40                      | 40              | 40            |            | 35            | 55            | 45                  | 40              |
|                  | 06        | 3/8-19               | 60                      | 60              | 80            |            | 45            | 90            | 70                  | 65              |
|                  | 08        | 1/2-14               | 90                      | 90              | 115           |            | 65            | 140           | 120                 | 90              |
|                  | 12        | 3/4-14               | 180                     | 180             | 180           |            | 90            | 270           | 230                 | 125             |
|                  | 16        | 1-11                 | 310                     | 310             | 310           |            | 150           | 340           | 320                 |                 |
|                  | 20        | 1-1/4-11             | 450                     | 450             | 450           |            | 240           | 540           | 540                 |                 |
|                  | 24        | 1-1/2-11             | 540                     | 540             | 540           |            | 290           | 700           | 700                 |                 |

**Please note:**

- All torque values are intended for steel fittings.
- For Brass fittings and adapters use 65 % of the torque values.
- For Stainless steel fittings and adapters, use 5% higher value than listed and lubricate threads.

# TUTORIALS HOW TO INSTALL FITTINGS & ADAPTERS

## Metric Port – Torque Settings



|                  | Thread Size mm | Straight (Nm) | Adjustable (Nm) | Straight (Nm) | Plugs (Nm) | Straight & Adjustable (Nm) | Straight (Nm) | Straight (Nm) | With Copper Washers | With Soft Seals |
|------------------|----------------|---------------|-----------------|---------------|------------|----------------------------|---------------|---------------|---------------------|-----------------|
| Light Series (L) | 12             | 25            | 25              | 25            | 25         | 25                         | 20            | 30            | 45                  | 35              |
|                  | 14             | 40            | 40              | 45            | 35         | 35                         | 35            | 45            | 55                  | 50              |
|                  | 16             | 55            | 55              | 55            | 55         | 40                         | 45            | 65            | 80                  | 60              |
|                  | 18             | 70            | 70              | 70            | 65         | 45                         | 55            | 80            | 100                 | 80              |
|                  | 22             | 90            | 90              | 125           | 90         | 60                         | 65            | 140           | 140                 | 120             |
|                  | 27             | 180           | 180             | 180           | 135        | 100                        | 90            | 190           | 320                 | 130             |
|                  | 33             | 310           | 310             | 310           | 225        | 160                        | 150           | 340           | 360                 |                 |
|                  | 42             | 450           | 450             | 450           | 360        | 210                        | 240           | 500           | 540                 |                 |
| Heavy Series (S) | 12             | 35            | 35              | 35            |            | 35                         | 20            | 35            | 45                  | 35              |
|                  | 14             | 55            | 55              | 45            |            | 45                         | 35            | 55            | 55                  | 50              |
|                  | 16             | 70            | 70              | 70            |            | 55                         | 45            | 70            | 80                  | 60              |
|                  | 18             | 90            | 90              | 90            |            | 70                         | 55            | 110           | 100                 | 80              |
|                  | 20             | 125           | 125             | 125           | 80         | 80                         | 55            | 150           | 125                 | 110             |
|                  | 22             | 135           | 135             | 135           |            | 100                        | 65            | 170           | 135                 | 120             |
|                  | 27             | 180           | 180             | 180           |            | 170                        | 90            | 270           | 320                 | 135             |
|                  | 33             | 310           | 310             | 310           |            | 310                        | 150           | 410           | 360                 |                 |
|                  | 42             | 450           | 450             | 450           |            | 330                        | 240           | 540           | 540                 |                 |
|                  | 48             | 540           | 540             | 540           |            | 420                        | 290           | 700           | 700                 |                 |

**Please note:**

- All torque values are intended for steel fittings.
- For Brass fittings and adapters use 65 % of the torque values.
- For Stainless steel fittings and adapters, use 5% higher value than listed and lubricate threads.

TUTORIALS  
FEATURED  
STEEL  
STAINLESS STEEL  
BRASS  
MEALLEABLE IRON  
QUICK REFERENCE  
ABOUT

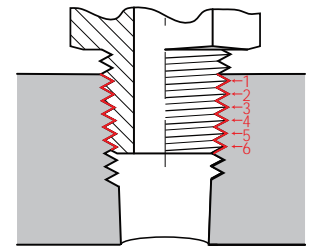
## Installation of Tapered Port Fittings

When installing tapered fittings, the proper method is to utilize the 'turns from finger tight' method (T.F.F.T). Do not ever use torque settings for tapered fittings as many variables are involved especially when thread tape or sealant is used.

1. Observe unassembled parts, especially threads and bore to ensure it is free of foreign material, burrs, nicks, etc.
2. Apply thread sealant, tape or lubricant if not already applied. Do not cover the first 2 threads with any sealant or lubricant to avoid contaminating the system.
3. If a thread seal tape is used, make sure it is wrapped 1.5 to 2 turns in a clockwise direction when looking at the bore of the fitting.
4. Thread the tapered fitting into port until finger tight.
5. Using the suggested T.F.F.T values in the chart provided, wrench the fitting into place.
6. If the tapered fitting is an elbow, make sure the hose or tube end is oriented in the proper direction without having to loosen the fitting. Serious injury could occur if the fitting is loosened from its suggested T.F.F.T value.
7. Inspect the final assembly for leaks. The number of threads engaged should range from 3.5 and 6.

BSPT T.F.F.T Values

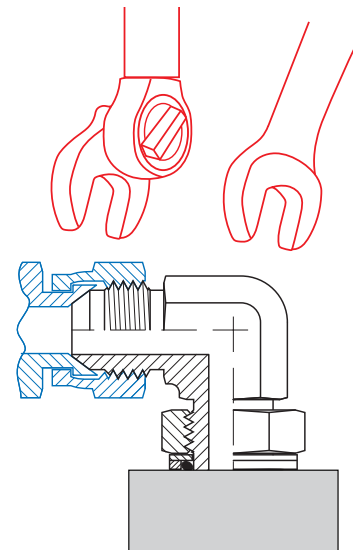
| BSPT Dash Size | Inch Thread Size-TPI | Turns From Finger Tight (T.F.F.T) |
|----------------|----------------------|-----------------------------------|
| 02             | 1/8-28               | 2 – 3                             |
| 04             | 1/4-19               | 2 – 3                             |
| 06             | 3/8-19               | 2 – 3                             |
| 08             | 1/2-14               | 2 – 3                             |
| 10             | 5/8-14               | 2 – 3                             |
| 12             | 3/4-14               | 2 – 3                             |
| 16             | 1-11                 | 1.5 – 2.5                         |
| 20             | 1-1/4-11             | 1.5 – 2.5                         |
| 24             | 1-1/2-11             | 1.5 – 2.5                         |



Inspect final assembly to ensure 3.5 to 6 threads are engaged

## Installation of Female Swivel Fittings

1. Observe unassembled parts, especially threads and bore to ensure it is free of foreign material, burrs, nicks, etc.
2. Make sure the sealing surface angles are the same for the fittings you are connecting.
3. If there is an O-ring located on one of the cone seats, inspect it for damage and replace if used or worn. Make sure O-ring is seated properly and not cocked or twisted.
4. Never install an O-ring, bonded washer, or other seal at the base of the thread like you would a port fitting. Swivel fittings seal via internal surfaces.
5. Thread and then tighten the swivel nut with a torque wrench while holding the corresponding fitting body with a wrench. Torque to recommended settings.
6. If a crowsfoot is used with a torque wrench, adjustments might need to be made to the torque settings otherwise overtightening could occur. Consult your manufacturer for instructions.
7. Inspect final assembly for leaks.



Hand tighten, then orient the fitting to face direction of hose or tube. Then torque the swivel nut to suggested setting while holding the fitting body. Inspect for leaks.

# TUTORIALS HOW TO INSTALL FITTINGS & ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## DIN DKO Swivel - Torque Settings

|                 | Thread Size mm | Tube Size | DIN DKO Swivel (Nm) |
|-----------------|----------------|-----------|---------------------|
| L<br>Light Duty | 12             | L06       | 16                  |
|                 | 14             | L08       | 16                  |
|                 | 16             | L10       | 26                  |
|                 | 18             | L12       | 37                  |
|                 | 22             | L15       | 47                  |
|                 | 26             | L18       | 89                  |
|                 | 30             | L22       | 116                 |
|                 | 36             | L28       | 137                 |
|                 | 45             | L35       | 226                 |
|                 | 52             | L42       | 347                 |
| S<br>Heavy Duty | 14             | S06       | 26                  |
|                 | 16             | S08       | 42                  |
|                 | 18             | S10       | 53                  |
|                 | 20             | S12       | 63                  |
|                 | 22             | S14       | 79                  |
|                 | 24             | S16       | 84                  |
|                 | 30             | S20       | 126                 |
|                 | 36             | S25       | 179                 |
|                 | 42             | S30       | 263                 |
|                 | 52             | S38       | 368                 |

## BSPP Swivel - Torque Settings

| Dash Thread Size | Inch Thread Size-Tpi | BSPP Swivel (Nm) |
|------------------|----------------------|------------------|
| 04               | 1/4-19               | 20               |
| 06               | 3/8-19               | 35               |
| 08               | 1/2-14               | 60               |
| 10               | 5/8-14               | 70               |
| 12               | 3/4-14               | 115              |
| 16               | 1-11                 | 140              |
| 20               | 1-1/4-11             | 210              |
| 24               | 1-1/2-11             | 290              |

**Please note:**

- All torque values are intended for steel fittings.
- For Brass fittings and adapters use 65 % of the torque values.
- For Stainless steel fittings and adapters, use 5% higher value than listed and lubricate threads.

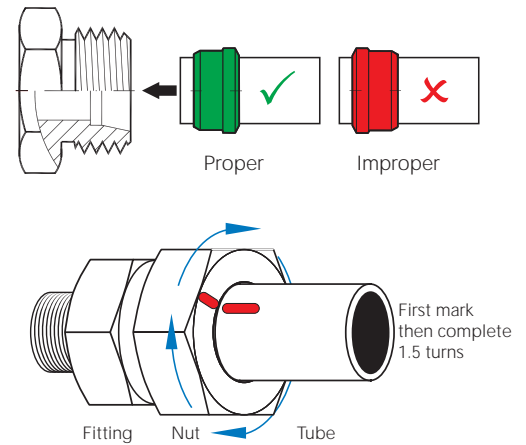
## Installation of 24° DIN Tube Fittings

Make sure you fully read and understand the previous sections on DIN tube fittings and verify you have the correct components for your assembly.

1. The first step is to cut the tube to length, then de-burr and clean. Cut tubing with appropriate saw only.
2. Next, pre-set the cutting ring by initiating the bite into the tube. There are two ways to complete the pre-set: either a) manually with a fitting or hardened pre-assembly fitting body, or b) with a hydraulic pre-set machine. Hydraulic pre-setting is recommended for assemblies with tube size greater than 18mm.
3. Perform pre-set inspection to verify proper installation of cutting ring.
4. Install the assembly.

## Manual Pre-set Method for 24° DIN Tube Fittings

1. Lubricate threads of fitting and nut, 24° throat, and cutting ring.
2. Place nut then cutting ring over tube, ensuring proper orientation.
3. Thread nut onto fitting until finger tight. Press tube firmly into the tube receptacle of the fitting while doing so.
4. Mark nut and tube position for reference with soap stone or marking pencil.
5. Tighten nut so that it completes 1.5 turns (use markings as reference), while at the same time ensuring the tube is stationary and pressed firmly into the tube receptacle. Sudden resistance to torquing is a sign the cutting ring is in a desired position. Be sure to secure fitting with wrench while tightening the nut.



## Hydraulic Pre-set Method for 24° DIN Tube Fittings

There are various hydraulic pre-set machines available with specific instructions for each. Please refer to your user's manual for operating instructions.

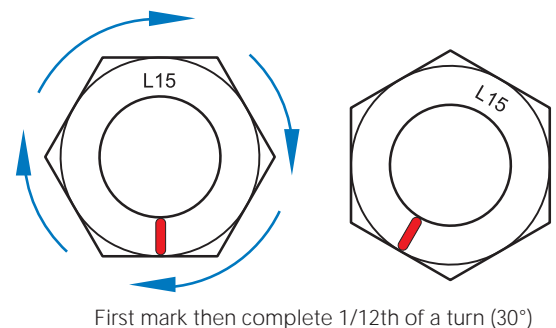
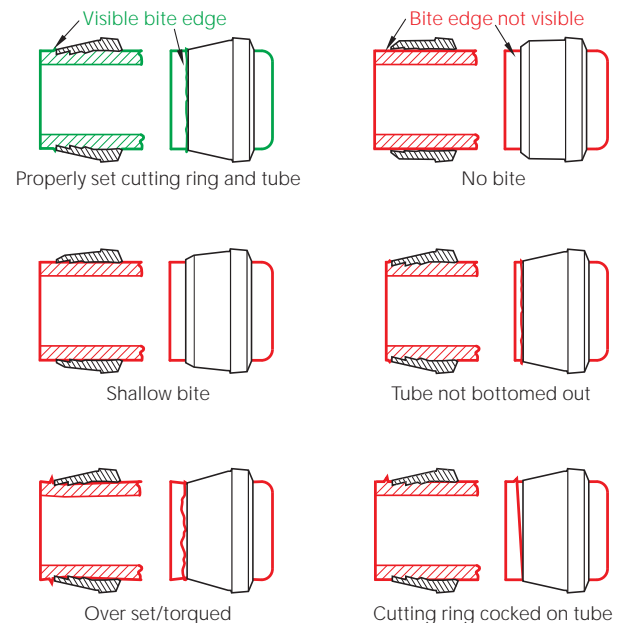
### Pre-set Inspection

1. Remove the nut from fitting and pull back in order to inspect the cutting ring.
2. The cutting ring should leave no visible gap between the first cutting surface and the tube, and the tube should have a visible bite edge in front of the cutting ring (looks like slightly raised material).
3. If not, tighten in small increments (checking the result after each increment) to verify cutting ring is properly gripping the tube.

It is possible for the ring to rotate around the tube, however this does not indicate an improper installation as long as all other factors are correct.

### Final Installation

Take the pre-set assembly and insert tube into the fitting's tube receptacle firmly, then tighten nut with light wrenching until resistance felt. Once this has been achieved, tighten the nut another 30° or 1/12th of a turn. This is the equivalent of turning the nut from a state where the hex is flat relative to a fixed point (i.e. a table) to where the sharp edge of the hex is now facing that position. Be sure to use a second wrench to hold the fitting in place while torquing the nut



# TUTORIALS HOW TO ORDER DIN FITTINGS FROM ADAPTALL

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## How to order 24° DIN Tube Fittings from Adaptall

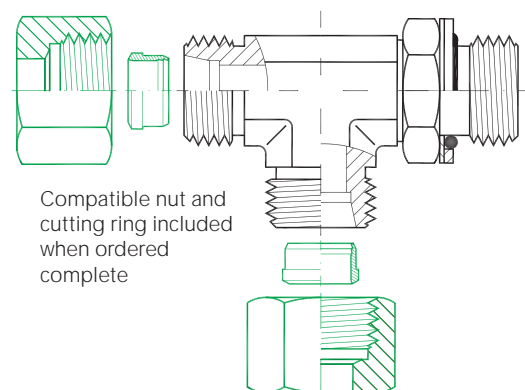
To order 24° DIN tube fittings from Adaptall it is important to understand the part numbering system. This system is typical of most manufacturers:

1. The first four numbers indicate the part series i.e. 5000 is a male DIN union.
2. The pressure class (LL, L, or S) is indicated at the end of the series number i.e. 5000L, 5002S, 5063LL, etc.
3. For instances where a DIN x DIN fitting does not have a jump size, only one dash size is displayed. For example, a 5000L-06 is a light duty L06 x L06 DIN union.
4. The dash numbers indicate tube size when describing the DIN side of the fitting. From the last example, a 5000L-06 is an L06 indicating a M12x1.5 thread with 6mm tube receptacle; see 'Component Compatibility Chart' on page 14 for details on tube size & thread size relationship.
5. For non-DIN threads such as NPT, BSPP, etc., the regular dash system is used i.e. -08 indicates 1/2", -12 is 3/4", etc. Adaptall usually displays dash sizes with tube or hose side first, then port side.
6. To order a complete DIN assembly (including fitting, cutting ring, and nut) simply add a "C" to the end of the part number. For example, a complete L06 male DIN union assembly would be 5000L-06C, etc. Please note that all LL series (extra light duty) parts come complete.

When a complete assembly is ordered from Adaptall, there is no need to identify components to go along with your assembly. Adaptall will complete the necessary steps to ensure you are provided with compatible components.

### Example:

Shown here in black only is 5158L-22-22-12: Male DIN X Male BSPP adjustable Run Tee, size L22 for the DIN threads, and dash size 12 BSPP (3/4"). When ordered as part number 5158L-22-22-12C it comes as a complete assembly with cutting rings and nuts for the two L22 Male DIN threads (components shown in green). Looking at the 'Component Compatibility Chart' on page 14, one would notice the compatible nuts for this assembly would be 5201L-22 with the compatible cutting rings being 5202-22.





**ASK ABOUT OUR CUSTOM BRANDING**

**TGK-01**

BSP & METRIC THREAD ID GAUGE KIT

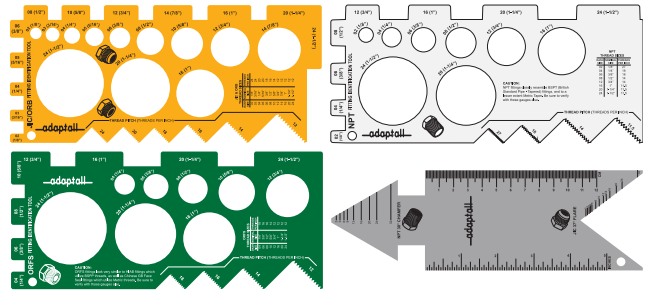
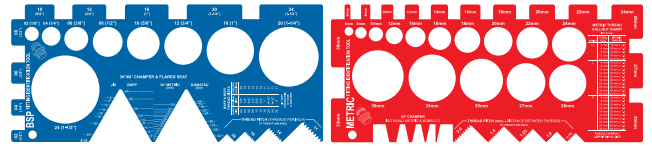
- BSPP, BSPT & JIS GAUGE (x1)
- METRIC, DIN, KOBELCO GAUGE (x1)

**TGK-02**

JIC, ORB (SAE), NPT AND ORFS THREAD ID GAUGE KIT

- JIC & ORB GAUGE (x1)
- NPT GAUGE (x1)
- ORFS GAUGE (x1)
- ANGLE GAUGE/RULER (x1)

**FEATURED THREAD GAUGES**



Use it to verify thread pitch or threads per inch



Chamfer and nose cone angles can be verified



Ports are used to identify male threads, posts for female threads



Useful in the field or shop



Convenient pouch holds multiple tools

# FEATURED KITS

## KIT-BANJO-BSPP

BSPP BANJO KIT (MALE JIC BANJO BODY X MALE BSPP BOLT)

|              |                 |                 |               |
|--------------|-----------------|-----------------|---------------|
| 3002-02 (x4) | 3002-12 (x2)    | 3059-06-06 (x4) | 3500-04 (x16) |
| 3002-04 (x8) | 3059-04-02 (x4) | 3059-08-08 (x2) | 3500-06 (x8)  |
| 3002-06 (x4) | 3059-04-04 (x4) | 3059-12-12 (x2) | 3500-08 (x4)  |
| 3002-08 (x2) | 3059-06-04 (x4) | 3500-02 (x8)    | 3500-12 (x4)  |



## KIT-BANJO-METRIC

METRIC BANJO KIT (MALE JIC BANJO BODY X MALE METRIC BOLT)

|                  |                  |                 |                |
|------------------|------------------|-----------------|----------------|
| 3068-08-1 (x4)   | 3068-20-150 (x2) | 3069-08-18 (x4) | 3500-16mm (x8) |
| 3068-10-1 (x4)   | 3068-22-150 (x2) | 3069-08-20 (x2) | 3500-18mm (x8) |
| 3068-10-150 (x4) | 3069-04-08 (x4)  | 3069-10-22 (x2) | 3500-20mm (x4) |
| 3068-12-150 (x4) | 3069-04-10 (x8)  | 3500-08mm (x8)  | 3500-22mm (x4) |
| 3068-14-150 (x4) | 3069-04-12 (x4)  | 3500-10mm (x16) |                |
| 3068-16-150 (x4) | 3069-06-14 (x4)  | 3500-12mm (x4)  |                |
| 3068-18-150 (x4) | 3069-06-16 (x4)  | 3500-14mm (x8)  |                |



## KIT-BANJO-BSPP+MET

BSPP AND METRIC BANJO KIT COMBO

- BSPP BANJO KIT (x1)
- METRIC BANJO KIT (x1)



## KIT-PL&CP-BSPP

BSPP PLUG AND CAP KIT

|                      |                      |
|----------------------|----------------------|
| 02 (4 PLUGS, 4 CAPS) | 10 (2 PLUGS, 2 CAPS) |
| 04 (4 PLUGS, 4 CAPS) | 12 (4 PLUGS, 4 CAPS) |
| 06 (4 PLUGS, 4 CAPS) | 16 (2 PLUGS, 2 CAPS) |
| 08 (4 PLUGS, 4 CAPS) |                      |



## KIT-PL&CP-DIN-L

DIN PLUG & CAP KIT - LIGHT DUTY

|                       |                       |
|-----------------------|-----------------------|
| L06 (4 PLUGS, 4 CAPS) | L15 (6 PLUGS, 6 CAPS) |
| L08 (4 PLUGS, 4 CAPS) | L18 (4 PLUGS, 4 CAPS) |
| L10 (6 PLUGS, 6 CAPS) | L22 (4 PLUGS, 4 CAPS) |
| L12 (6 PLUGS, 6 CAPS) | L28 (2 PLUGS, 2 CAPS) |



TUTORIALS  
FEATURED  
STEEL  
STAINLESS STEEL  
BRASS  
MEALLEABLE IRON  
QUICK REFERENCE  
ABOUT

## ASK ABOUT OUR CUSTOM BRANDING

### KIT-PL&CP-DIN-S

DIN PLUG & CAP KIT - HEAVY DUTY

|                       |                       |
|-----------------------|-----------------------|
| S06 (4 PLUGS, 4 CAPS) | S14 (4 PLUGS, 4 CAPS) |
| S08 (4 PLUGS, 4 CAPS) | S16 (4 PLUGS, 4 CAPS) |
| S10 (6 PLUGS, 6 CAPS) | S20 (2 PLUGS, 2 CAPS) |
| S12 (6 PLUGS, 6 CAPS) | S25 (2 PLUGS, 2 CAPS) |

### KIT-PL&CP-JIC

JIC PLUG AND CAP KIT

|                        |                      |                      |
|------------------------|----------------------|----------------------|
| 04 (10 PLUGS, 10 CAPS) | 08 (4 PLUGS, 4 CAPS) | 12 (2 PLUGS, 2 CAPS) |
| 06 (10 PLUGS, 10 CAPS) | 10 (3 PLUGS, 3 CAPS) | 16 (2 PLUGS, 2 CAPS) |

### KIT-PL&CP-JIS

JIS PLUG & CAP KIT

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| 04 (2 PLUGS, 2 CAPS) | 08 (2 PLUGS, 2 CAPS) | 16 (2 PLUGS, 2 CAPS) |
| 06 (2 PLUGS, 2 CAPS) | 12 (2 PLUGS, 2 CAPS) | 20 (2 PLUGS, 2 CAPS) |

### KIT-PL&CP-KOMATSU

KOMATSU PLUG AND CAP KIT

|                        |                        |                        |
|------------------------|------------------------|------------------------|
| 14mm (2 PLUGS, 2 CAPS) | 22mm (2 PLUGS, 2 CAPS) | 30mm (2 PLUGS, 2 CAPS) |
| 18mm (2 PLUGS, 2 CAPS) | 24mm (2 PLUGS, 2 CAPS) | 33mm (2 PLUGS, 2 CAPS) |

### KIT-PL&CP-NPT

NPT PLUG AND CAP KIT

|                        |                      |                      |
|------------------------|----------------------|----------------------|
| 02 (10 PLUGS, 10 CAPS) | 06 (4 PLUGS, 4 CAPS) | 12 (2 PLUGS, 2 CAPS) |
| 04 (8 PLUGS, 8 CAPS)   | 08 (3 PLUGS, 3 CAPS) | 16 (2 PLUGS, 2 CAPS) |

## FEATURED KITS



TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# FEATURED KITS

TUTORIALS

## KIT-PL&CP-ORFS

ORFS PLUG AND CAP KIT

|                        |                      |                      |
|------------------------|----------------------|----------------------|
| 04 (10 PLUGS, 10 CAPS) | 08 (4 PLUGS, 4 CAPS) | 12 (2 PLUGS, 2 CAPS) |
| 06 (10 PLUGS, 10 CAPS) | 10 (3 PLUGS, 3 CAPS) | 16 (2 PLUGS, 2 CAPS) |



FEATURED

## KIT-9005ES

MJIC X MBSPP ES SEALED DUAL PURPOSE KIT

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| 9005ES-04-02 (x4) | 9005ES-06-06 (x4) | 9005ES-12-12 (x4) |
| 9005ES-04-04 (x4) | 9005ES-08-06 (x4) | 9005ES-16-16 (x2) |
| 9005ES-04-06 (x4) | 9005ES-08-08 (x4) |                   |
| 9005ES-06-04 (x4) | 9005ES-10-08 (x4) |                   |



STEEL

## KIT-9197-LIGHT

MJIC X FDIN/DKO KIT - LIGHT DUTY

|                     |                     |                     |
|---------------------|---------------------|---------------------|
| 9197-04-L06-12 (x4) | 9197-08-L12-18 (x2) | 9197-16-L22-30 (x2) |
| 9197-04-L08-14 (x4) | 9197-10-L15-22 (x2) | 9197-16-L28-36 (x2) |
| 9197-06-L08-14 (x4) | 9197-12-L18-26 (x2) |                     |
| 9197-06-L10-16 (x4) | 9197-12-L22-30 (x2) |                     |



STAINLESS STEEL

## KIT-9197-HEAVY

MJIC X FDIN/DKO KIT - HEAVY DUTY

|                     |                     |
|---------------------|---------------------|
| 9197-04-S06-14 (x4) | 9197-08-S16-24 (x2) |
| 9197-06-S08-16 (x4) | 9197-10-S16-24 (x2) |
| 9197-06-S10-18 (x4) | 9197-12-S20-30 (x2) |
| 9197-08-S12-20 (x2) | 9197-16-S25-36 (x2) |



BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT



## ASK ABOUT OUR CUSTOM BRANDING

### KIT-SEALS-BSPP+MET

BONDED SEAL KIT BSPP & METRIC

|               |               |            |            |
|---------------|---------------|------------|------------|
| BSPP 02 (x20) | BSPP 16 (x15) | 16mm (x20) | 27mm (x15) |
| BSPP 04 (x20) | BSPP 20 (x10) | 18mm (x15) | 30mm (x20) |
| BSPP 06 (x20) | 8mm (x20)     | 20mm (x15) | 33mm (x10) |
| BSPP 08 (x20) | 10mm (x20)    | 22mm (x15) | 36mm (x10) |
| BSPP 10 (x15) | 12mm (x20)    | 24mm (x15) |            |
| BSPP 12 (x15) | 14mm (x20)    | 26mm (x20) |            |

### KIT-SEATS-GB37/74

GB 37/74 CONVERSION SEATS FOR MALE DIN & FEMALE KOMATSU

|                |                |                |
|----------------|----------------|----------------|
| 5333-12MM (x4) | 5333-30MM (x2) | 9333-24MM (x2) |
| 5333-14MM (x4) | 9333-12MM (x4) | 9333-30MM (x2) |
| 5333-16MM (x4) | 9333-14MM (x4) |                |
| 5333-18MM (x4) | 9333-16MM (x4) |                |
| 5333-22MM (x4) | 9333-18MM (x4) |                |
| 5333-24MM (x2) | 9333-22MM (x4) |                |

### KIT-SEATS-GB-FFACE

GB FACE SEAL CONVERSION SEATS FOR MALE DIN & FEMALE KOMATSU

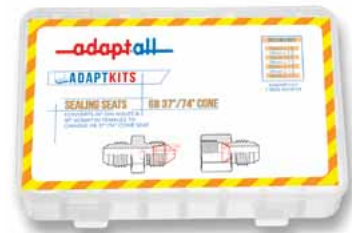
|                  |                  |                  |
|------------------|------------------|------------------|
| 5333FF-12MM (x4) | 5333FF-30MM (x2) | 9333FF-24MM (x2) |
| 5333FF-14MM (x4) | 9333FF-12MM (x4) | 9333FF-30MM (x2) |
| 5333FF-16MM (x4) | 9333FF-14MM (x4) |                  |
| 5333FF-18MM (x4) | 9333FF-16MM (x4) |                  |
| 5333FF-22MM (x4) | 9333FF-18MM (x4) |                  |
| 5333FF-24MM (x2) | 9333FF-22MM (x4) |                  |

### KIT-SEATS-JIS&HIAB

JIS (9999) & HIAB (9777) CONVERSION SEATS FOR 30 DEG MBSP

|              |              |              |
|--------------|--------------|--------------|
| 9999-02 (x4) | 9999-16 (x2) | 9777-10 (x2) |
| 9999-04 (x4) | 9999-20 (x2) | 9777-12 (x4) |
| 9999-06 (x4) | 9999-24 (x2) | 9777-16 (x2) |
| 9999-08 (x4) | 9777-04 (x4) |              |
| 9999-10 (x2) | 9777-06 (x4) |              |
| 9999-12 (x4) | 9777-08 (x4) |              |

## FEATURED KITS



COMING 2020!



COMING 2020!



COMING 2020!

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# FEATURED STOCKING PROGRAMS

ASK ABOUT OUR CUSTOM BRANDING

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## IA SSDO

INTERNATIONAL ADAPTERS ROLLING BIN RACK  
240 FULLY STOCKED BINS OF POPULAR SIZES

INCLUDING:

|               |               |                 |
|---------------|---------------|-----------------|
| 6002 SERIES   | 9030 SERIES   | 9605S SERIES    |
| 6068 SERIES   | 9033 SERIES   | 9606S SERIES    |
| 9000 SERIES   | 9035S SERIES  | 9635S SERIES    |
| 9005ES SERIES | 9059 SERIES   | 9636S SERIES    |
| 9006 SERIES   | 9069 SERIES   | TGK GAUGES      |
| 9007 SERIES   | 9197 SERIES   | BONDED SEAL KIT |
| 9011 SERIES   | 9199 SERIES   |                 |
| 9021 SERIES   | 9240 SERIES   |                 |
| 9028 SERIES   | 9500 SERIES   |                 |
| 9029 SERIES   | 9500MM SERIES |                 |



## DIN SSDO

DIN TUBE FITTINGS & ADAPTERS ROLLING BIN RACK  
240 FULLY STOCKED BINS OF POPULAR SIZES

INCLUDING:

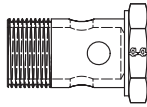
|             |              |             |
|-------------|--------------|-------------|
| 5002 SERIES | 5070 SERIES  | 5300 SERIES |
| 5007 SERIES | 5080 SERIES  | 5360 SERIES |
| 5011 SERIES | 5201 SERIES  | TGK GAUGES  |
| 5055 SERIES | 5202 SERIES  |             |
| 5063 SERIES | 5203 SERIES  |             |
| 5068 SERIES | 5204P SERIES |             |



# STEEL BANJO ADAPTERS

## 3002

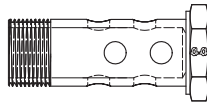
MALE BSPP BANJO BOLT



|             |             |         |
|-------------|-------------|---------|
| 3002-02     | 3002-06     | 3002-12 |
| 3002-02-21L | 3002-08     | 3002-16 |
| 3002-04     | 3002-08-41L |         |
| 3002-04-29L | 3002-10     |         |

## 3002DB

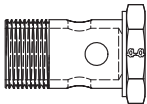
BSPP DOUBLE BANJO BOLT



|           |           |           |
|-----------|-----------|-----------|
| 3002DB-02 | 3002DB-06 | 3002DB-12 |
| 3002DB-04 | 3002DB-08 | 3002DB-16 |

## 3048

MALE UNF BANJO BOLT

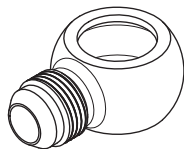


|         |         |
|---------|---------|
| 3048-04 | 3048-12 |
| 3048-06 | 3048-16 |
| 3048-08 |         |
| 3048-10 |         |

COMING 2020!

## 3049

MALE JIC X UNF BANJO BODY

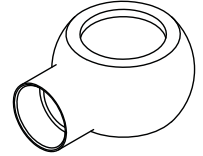


|            |            |
|------------|------------|
| 3049-04-04 | 3049-08-08 |
| 3049-05-04 | 3049-10-08 |
| 3049-06-04 | 3049-10-10 |
| 3049-06-06 | 3049-10-12 |
| 3049-06-08 | 3049-12-12 |
| 3049-08-06 | 3049-16-16 |

COMING 2020!

## 3049W

INCH TUBE WELD X UNF BANJO BODY

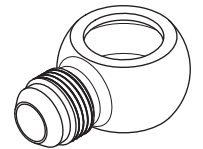


COMING 2020!

|             |             |
|-------------|-------------|
| 3049W-04-04 | 3049W-10-10 |
| 3049W-04-06 | 3049W-10-12 |
| 3049W-06-04 | 3049W-12-08 |
| 3049W-06-06 | 3049W-12-10 |
| 3049W-06-08 | 3049W-12-12 |
| 3049W-08-06 | 3049W-12-16 |
| 3049W-08-08 | 3049W-16-12 |
| 3049W-08-10 | 3049W-16-16 |
| 3049W-08-12 |             |
| 3049W-10-08 |             |

## 3059

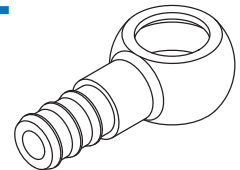
MALE JIC X BSP BANJO BODY



|            |            |            |
|------------|------------|------------|
| 3059-04-02 | 3059-06-06 | 3059-12-12 |
| 3059-04-04 | 3059-08-08 | 3059-12-16 |
| 3059-05-04 | 3059-10-08 |            |
| 3059-06-04 | 3059-10-12 |            |

## 3059HB

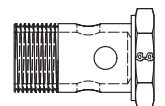
HOSE BARB X BSP BANJO BODY (LOW PSI)



|              |              |              |
|--------------|--------------|--------------|
| 3059HB-04-02 | 3059HB-05-06 | 3059HB-08-08 |
| 3059HB-04-04 | 3059HB-06-06 |              |

## 3068

METRIC BANJO BOLT



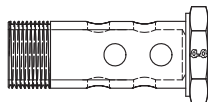
|             |                 |                 |
|-------------|-----------------|-----------------|
| 3068-08-1   | 3068-12-125     | 3068-18-150-40L |
| 3068-08-125 | 3068-12-150     | 3068-20-150     |
| 3068-10-1   | 3068-14-150     | 3068-22-150     |
| 3068-10-125 | 3068-14-150-27L | 3068-24-150     |
| 3068-10-150 | 3068-16-150     | 3068-26-150     |
| 3068-12-1   | 3068-18-150     |                 |



# STEEL BANJO ADAPTERS

## 3068DB

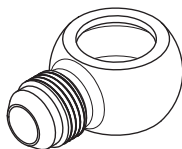
METRIC DOUBLE BANJO BOLT



- |               |               |
|---------------|---------------|
| 3068DB-8-1    | 3068DB-14-150 |
| 3068DB-10-1   | 3068DB-16-150 |
| 3068DB-12-125 | 3068DB-18-150 |
| 3068DB-12-150 | 3068DB-22-150 |

## 3069

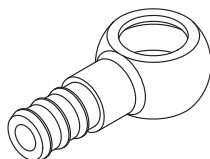
MALE JIC X METRIC BANJO BODY



- |            |            |            |
|------------|------------|------------|
| 3069-04-08 | 3069-06-16 | 3069-10-24 |
| 3069-04-10 | 3069-08-18 | 3069-12-26 |
| 3069-04-12 | 3069-08-20 |            |
| 3069-06-14 | 3069-10-22 |            |

## 3069HB

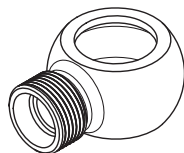
HOSE BARB X METRIC BANJO BODY (LOW PSI)



- |              |              |              |
|--------------|--------------|--------------|
| 3069HB-04-08 | 3069HB-06-10 | 3069HB-08-16 |
| 3069HB-04-10 | 3069HB-06-12 | 3069HB-12-18 |
| 3069HB-05-12 | 3069HB-06-14 |              |
| 3069HB-05-14 | 3069HB-08-14 |              |

## 3069LL

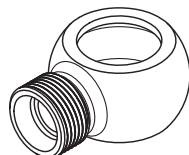
MALE DIN EXTRA LIGHT DUTY X METRIC BANJO BODY



- |              |
|--------------|
| 3069LL-10-10 |
|--------------|

## 3069L

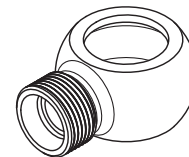
MALE DIN LIGHT DUTY X METRIC BANJO BODY



- |             |             |             |
|-------------|-------------|-------------|
| 3069L-12-12 | 3069L-16-16 | 3069L-22-22 |
| 3069L-14-14 | 3069L-18-18 | 3069L-26-26 |

## 3069S

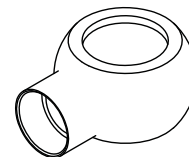
MALE DIN HEAVY DUTY X METRIC BANJO BODY



- |             |
|-------------|
| 3069S-20-20 |
| 3069S-24-24 |

## 3069W

METRIC TUBE WELD X METRIC BANJO BODY

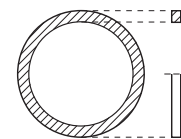


COMING 2020!

- |             |             |             |
|-------------|-------------|-------------|
| 3069W-04-06 | 3069W-08-18 | 3069W-14-20 |
| 3069W-04-08 | 3069W-10-12 | 3069W-14-22 |
| 3069W-04-10 | 3069W-10-14 | 3069W-15-20 |
| 3069W-05-08 | 3069W-10-16 | 3069W-16-18 |
| 3069W-05-10 | 3069W-10-18 | 3069W-16-20 |
| 3069W-05-12 | 3069W-10-20 | 3069W-16-22 |
| 3069W-06-08 | 3069W-10-22 | 3069W-16-24 |
| 3069W-06-10 | 3069W-12-14 | 3069W-18-18 |
| 3069W-06-12 | 3069W-12-16 | 3069W-18-22 |
| 3069W-06-14 | 3069W-12-18 | 3069W-18-24 |
| 3069W-08-10 | 3069W-12-20 | 3069W-20-22 |
| 3069W-08-12 | 3069W-14-16 | 3069W-20-26 |
| 3069W-08-14 | 3069W-14-18 | 3069W-22-26 |
| 3069W-08-16 | 3069W-14-20 |             |

## 3500

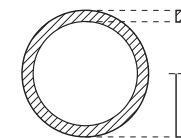
BSPP COPPER SEALING WASHERS



- |         |         |
|---------|---------|
| 3500-02 | 3500-10 |
| 3500-04 | 3500-12 |
| 3500-06 | 3500-16 |
| 3500-08 |         |

## 3500MM

METRIC COPPER SEALING WASHERS

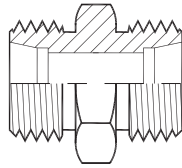


- |           |           |           |
|-----------|-----------|-----------|
| 3500-08MM | 3500-16MM | 3500-24MM |
| 3500-10MM | 3500-18MM | 3500-26MM |
| 3500-12MM | 3500-20MM |           |
| 3500-14MM | 3500-22MM |           |

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5000LL

DIN UNION EXTRA LIGHT DUTY  
(AVAILABLE COMPLETE ONLY)



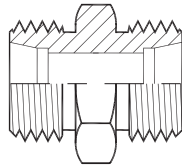
5000LL-04C  
5000LL-06C

5000LL-08C  
5000LL-10C

5000LL-12C

## 5000L

DIN UNION LIGHT DUTY



5000L-06

5000L-12-08

5000L-18-15

5000L-08

5000L-12-10

5000L-22

5000L-08-06

5000L-15

5000L-22-15

5000L-10

5000L-15-10

5000L-22-18

5000L-10-06

5000L-15-12

5000L-28

5000L-10-08

5000L-18

5000L-28-22

5000L-12

5000L-18-10

5000L-35

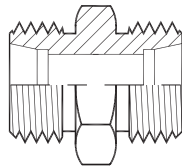
5000L-12-06

5000L-18-12

5000L-42

## 5000S

DIN UNION HEAVY DUTY



5000S-06

5000S-14

5000S-25-16

5000S-08

5000S-16

5000S-25-20

5000S-10

5000S-16-12

5000S-30

5000S-10-08

5000S-20

5000S-38

5000S-12

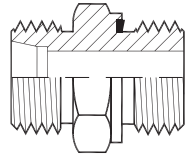
5000S-20-16

5000S-12-10

5000S-25

## 5002L

DIN LIGHT DUTY X MALE  
BSPP ES SEAL



5002L-06-02

5002L-12-06

5002L-28-12

5002L-06-04

5002L-12-08

5002L-28-16

5002L-08-02

5002L-15-06

5002L-35-16

5002L-08-04

5002L-15-08

5002L-35-20

5002L-08-06

5002L-15-12

5002L-42-20

5002L-10-02

5002L-18-08

5002L-42-24

5002L-10-04

5002L-18-12

5002L-10-06

5002L-22-08

5002L-10-08

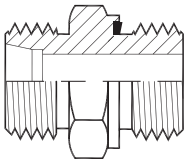
5002L-22-12

5002L-12-04

5002L-22-16

## 5002S

DIN HEAVY DUTY X MALE  
BSPP ES SEAL



5002S-06-04

5002S-12-08

5002S-20-16

5002S-08-04

5002S-14-06

5002S-25-12

5002S-08-06

5002S-14-08

5002S-25-16

5002S-10-04

5002S-16-06

5002S-30-16

5002S-10-06

5002S-16-08

5002S-30-20

5002S-10-08

5002S-16-12

5002S-38-20

5002S-12-04

5002S-20-08

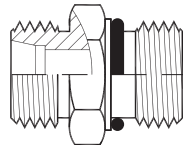
5002S-38-24

5002S-12-06

5002S-20-12

## 5006L

DIN LIGHT DUTY X MALE SAE  
ORB



5006L-06-04

5006L-12-08

5006L-22-16

5006L-06-06

5006L-12-10

5006L-28-10

5006L-08-04

5006L-15-08

5006L-28-12

5006L-08-06

5006L-15-10

5006L-28-16

5006L-10-04

5006L-18-08

5006L-35-16

5006L-10-06

5006L-18-10

5006L-35-20

5006L-10-08

5006L-22-10

5006L-42-20

5006L-12-06

5006L-22-12

5006L-42-24

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

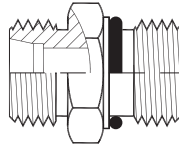
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 5006S

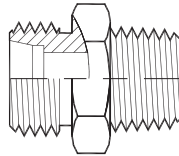
DIN HEAVY DUTY X MALE SAE ORB



|             |             |             |
|-------------|-------------|-------------|
| 5006S-08-04 | 5006S-16-10 | 5006S-30-16 |
| 5006S-10-06 | 5006S-20-08 | 5006S-30-20 |
| 5006S-12-06 | 5006S-20-10 | 5006S-38-20 |
| 5006S-12-08 | 5006S-20-12 | 5006S-38-24 |
| 5006S-14-08 | 5006S-25-12 |             |
| 5006S-16-08 | 5006S-25-16 |             |

## 5007LL

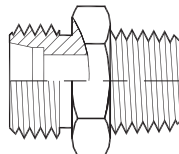
DIN EXTRA LIGHT X MALE NPT (AVAILABLE COMPLETE ONLY)



|               |               |               |
|---------------|---------------|---------------|
| 5007LL-04-02C | 5007LL-08-02C | 5007LL-12-06C |
| 5007LL-06-02C | 5007LL-10-04C | 5007LL-12-08C |

## 5007L

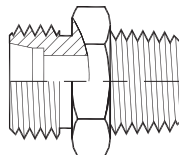
DIN LIGHT DUTY X MALE NPT



|             |             |             |
|-------------|-------------|-------------|
| 5007L-06-02 | 5007L-12-04 | 5007L-28-16 |
| 5007L-06-04 | 5007L-12-06 | 5007L-35-20 |
| 5007L-08-02 | 5007L-12-08 | 5007L-42-24 |
| 5007L-08-04 | 5007L-15-06 |             |
| 5007L-08-06 | 5007L-15-08 |             |
| 5007L-10-04 | 5007L-18-08 |             |
| 5007L-10-06 | 5007L-18-12 |             |
| 5007L-10-08 | 5007L-22-12 |             |

## 5007S

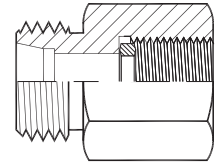
DIN HEAVY DUTY X MALE NPT



|             |             |             |
|-------------|-------------|-------------|
| 5007S-06-04 | 5007S-12-08 | 5007S-20-12 |
| 5007S-08-04 | 5007S-14-06 | 5007S-25-12 |
| 5007S-10-04 | 5007S-14-08 | 5007S-25-16 |
| 5007S-10-06 | 5007S-16-06 | 5007S-30-16 |
| 5007S-12-04 | 5007S-16-08 | 5007S-30-20 |
| 5007S-12-06 | 5007S-20-08 | 5007S-38-24 |

## 5009GCL

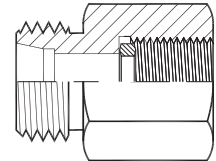
DIN LIGHT DUTY X FEMALE BSP GAUGE COUPLING (AVAILABLE COMPLETE ONLY)



|                |                |
|----------------|----------------|
| 5009GCL-06-04C | 5009GCL-10-04C |
| 5009GCL-08-04C | 5009GCL-12-04C |

## 5009GCS

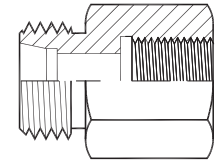
DIN HEAVY DUTY X FEMALE BSP GAUGE COUPLING (AVAILABLE COMPLETE ONLY)



|                |                |
|----------------|----------------|
| 5009GCS-06-08C | 5009GCS-10-08C |
| 5009GCS-08-08C | 5009GCS-12-08C |

## 5009L

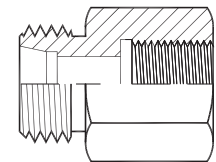
DIN LIGHT DUTY X FEMALE BSP SOLID



|             |             |             |
|-------------|-------------|-------------|
| 5009L-06-02 | 5009L-12-06 | 5009L-22-12 |
| 5009L-08-04 | 5009L-12-08 | 5009L-28-16 |
| 5009L-10-04 | 5009L-15-08 | 5009L-35-20 |
| 5009L-12-04 | 5009L-18-08 | 5009L-42-24 |

## 5009S

DIN HEAVY DUTY X FEMALE BSP SOLID

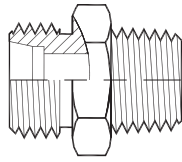


|             |             |             |
|-------------|-------------|-------------|
| 5009S-06-04 | 5009S-14-08 | 5009S-30-20 |
| 5009S-08-04 | 5009S-16-08 | 5009S-38-24 |
| 5009S-10-06 | 5009S-20-12 |             |
| 5009S-12-06 | 5009S-25-16 |             |

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5011LL

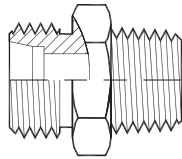
DIN EXTRA LIGHT DUTY X MALE BSPT (AVAILABLE COMPLETE ONLY)



- |               |               |               |
|---------------|---------------|---------------|
| 5011LL-04-02C | 5011LL-08-02C | 5011LL-10-04C |
| 5011LL-06-02C | 5011LL-08-04C | 5011LL-12-06C |

## 5011L

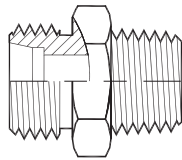
DIN LIGHT DUTY X MALE BSPT



- |             |             |             |
|-------------|-------------|-------------|
| 5011L-06-02 | 5011L-12-04 | 5011L-28-16 |
| 5011L-06-04 | 5011L-12-06 | 5011L-35-20 |
| 5011L-08-02 | 5011L-12-08 | 5011L-42-24 |
| 5011L-08-04 | 5011L-15-06 |             |
| 5011L-08-06 | 5011L-15-08 |             |
| 5011L-10-02 | 5011L-18-08 |             |
| 5011L-10-04 | 5011L-18-12 |             |
| 5011L-10-06 | 5011L-22-12 |             |

## 5011S

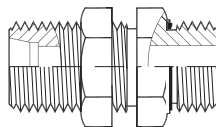
DIN HEAVY DUTY X MALE BSPT



- |             |             |             |
|-------------|-------------|-------------|
| 5011S-06-04 | 5011S-14-08 | 5011S-25-16 |
| 5011S-08-04 | 5011S-16-06 | 5011S-30-16 |
| 5011S-10-06 | 5011S-16-08 | 5011S-30-20 |
| 5011S-12-06 | 5011S-20-08 | 5011S-38-24 |
| 5011S-12-08 | 5011S-20-12 |             |
| 5011S-14-06 | 5011S-25-12 |             |

## 5040ES-L

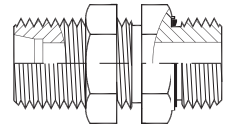
DIN LIGHT DUTY BULKHEAD X MALE BSPP ES SEAL



- |                |                |                |
|----------------|----------------|----------------|
| 5040-L06-02ESX | 5040-L12-08ESX | 5040-L18-12ESX |
| 5040-L10-06ESX | 5040-L15-12ESX |                |

## 5040ES-S

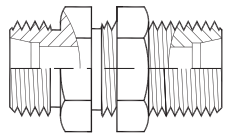
DIN HEAVY DUTY BULKHEAD X MALE BSPP ES SEAL



- |                |                |
|----------------|----------------|
| 5040-S10-04ESX | 5040-S16-08ESX |
| 5040-S12-06ESX | 5040-S16-12ESX |
| 5040-S12-08ESX | 5040-S20-08ESX |
| 5040-S14-08ESX | 5040-S25-16ESX |

## 5040L

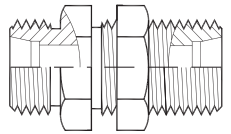
DIN BULKHEAD UNION LIGHT DUTY



- |          |          |          |
|----------|----------|----------|
| 5040L-06 | 5040L-15 | 5040L-35 |
| 5040L-08 | 5040L-18 | 5040L-42 |
| 5040L-10 | 5040L-22 |          |
| 5040L-12 | 5040L-28 |          |

## 5040S

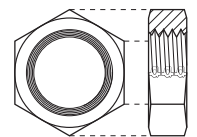
DIN BULKHEAD UNION HEAVY DUTY



- |          |          |          |
|----------|----------|----------|
| 5040S-06 | 5040S-14 | 5040S-30 |
| 5040S-08 | 5040S-16 | 5040S-38 |
| 5040S-10 | 5040S-20 |          |
| 5040S-12 | 5040S-25 |          |

## 5041

METRIC BULKHEAD NUT



- |         |         |         |
|---------|---------|---------|
| 5041-12 | 5041-24 | 5041-52 |
| 5041-14 | 5041-26 |         |
| 5041-16 | 5041-30 |         |
| 5041-18 | 5041-36 |         |
| 5041-20 | 5041-42 |         |
| 5041-22 | 5041-45 |         |

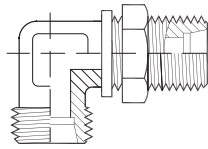
To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

## 5042L

90° DIN LIGHT DUTY BULKHEAD UNION ELBOW

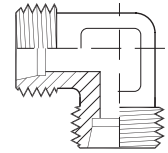


|          |          |          |
|----------|----------|----------|
| 5042L-06 | 5042L-15 | 5042L-35 |
| 5042L-08 | 5042L-18 | 5042L-42 |
| 5042L-10 | 5042L-22 |          |
| 5042L-12 | 5042L-28 |          |

FEATURED

## 5055S

90° DIN UNION HEAVY DUTY ELBOW

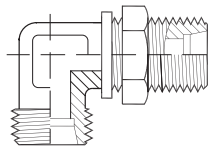


|          |          |          |
|----------|----------|----------|
| 5055S-06 | 5055S-14 | 5055S-30 |
| 5055S-08 | 5055S-16 | 5055S-38 |
| 5055S-10 | 5055S-20 |          |
| 5055S-12 | 5055S-25 |          |

STEEL

## 5042S

90° DIN HEAVY DUTY BULKHEAD UNION ELBOW

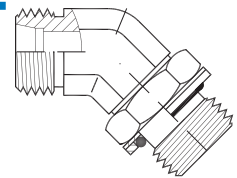


|          |          |          |
|----------|----------|----------|
| 5042S-06 | 5042S-14 | 5042S-30 |
| 5042S-08 | 5042S-16 | 5042S-38 |
| 5042S-10 | 5042S-20 |          |
| 5042S-12 | 5042S-25 |          |

STAINLESS STEEL

## 5058L

45° DIN LIGHT DUTY X MALE BSPP ADJUSTABLE ELBOW

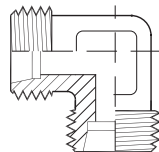


|             |             |
|-------------|-------------|
| 5058L-06-02 | 5058L-15-08 |
| 5058L-08-04 | 5058L-18-08 |
| 5058L-10-04 | 5058L-22-12 |
| 5058L-12-06 | 5058L-28-16 |

BRASS

## 5055LL

90° DIN UNION EXTRA LIGHT DUTY ELBOW  
(AVAILABLE COMPLETE ONLY)

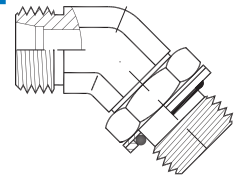


|            |            |            |
|------------|------------|------------|
| 5055LL-04C | 5055LL-08C | 5055LL-12C |
| 5055LL-06C | 5055LL-10C |            |

MEALLEABLE IRON

## 5058S

45° DIN HEAVY DUTY X MALE BSPP ADJUSTABLE ELBOW

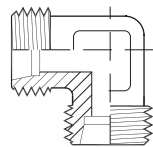


|             |             |
|-------------|-------------|
| 5058S-06-04 | 5058S-14-08 |
| 5058S-08-04 | 5058S-16-08 |
| 5058S-10-06 | 5058S-20-12 |
| 5058S-12-06 | 5058S-25-16 |

QUICK REFERENCE

## 5055L

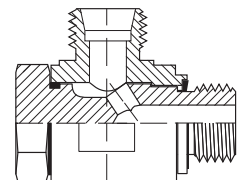
90° DIN UNION LIGHT DUTY ELBOW



|          |          |          |
|----------|----------|----------|
| 5055L-06 | 5055L-15 | 5055L-35 |
| 5055L-08 | 5055L-18 | 5055L-42 |
| 5055L-10 | 5055L-22 |          |
| 5055L-12 | 5055L-28 |          |

## 5059BJL

90° DIN LIGHT DUTY BANJO X MALE BSPP ES SEAL ELBOW



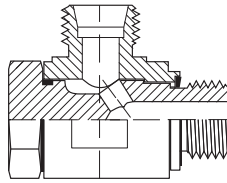
|               |               |               |
|---------------|---------------|---------------|
| 5059BJL-06-02 | 5059BJL-15-08 | 5059BJL-35-20 |
| 5059BJL-08-04 | 5059BJL-18-08 | 5059BJL-42-24 |
| 5059BJL-10-04 | 5059BJL-22-12 |               |
| 5059BJL-12-06 | 5059BJL-28-16 |               |

ABOUT

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5059BJS

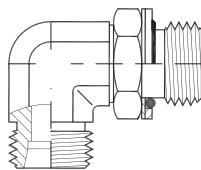
90° DIN HEAVY DUTY BANJO X MALE BSPP ES SEAL ELBOW



|               |               |               |
|---------------|---------------|---------------|
| 5059BJS-06-04 | 5059BJS-14-08 | 5059BJS-30-20 |
| 5059BJS-08-04 | 5059BJS-16-08 | 5059BJS-38-24 |
| 5059BJS-10-06 | 5059BJS-20-12 |               |
| 5059BJS-12-06 | 5059BJS-25-16 |               |

## 5059L

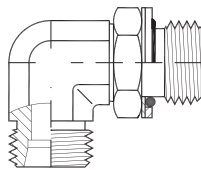
90° DIN LIGHT DUTY X MALE BSPP ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5059L-06-02 | 5059L-15-06 | 5059L-35-20 |
| 5059L-08-04 | 5059L-15-08 | 5059L-42-24 |
| 5059L-10-04 | 5059L-18-08 |             |
| 5059L-10-06 | 5059L-18-12 |             |
| 5059L-12-06 | 5059L-22-12 |             |
| 5059L-12-08 | 5059L-28-16 |             |

## 5059S

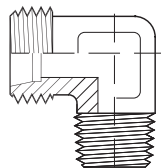
90° DIN HEAVY DUTY X MALE BSPP ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5059S-06-04 | 5059S-14-08 | 5059S-30-20 |
| 5059S-08-04 | 5059S-16-08 | 5059S-38-24 |
| 5059S-10-06 | 5059S-20-12 |             |
| 5059S-12-06 | 5059S-25-16 |             |

## 5063LL

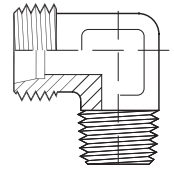
90° DIN EXTRA LIGHT DUTY X MALE BSPT ELBOW  
(AVAILABLE COMPLETE ONLY)



|               |               |               |
|---------------|---------------|---------------|
| 5063LL-04-02C | 5063LL-08-02C | 5063LL-12-06C |
| 5063LL-06-02C | 5063LL-10-04C |               |

## 5063L

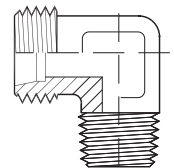
90° DIN LIGHT DUTY X MALE BSPT ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5063L-06-02 | 5063L-12-04 | 5063L-28-16 |
| 5063L-06-04 | 5063L-12-06 | 5063L-35-20 |
| 5063L-08-02 | 5063L-12-08 | 5063L-42-24 |
| 5063L-08-04 | 5063L-15-06 |             |
| 5063L-10-02 | 5063L-15-08 |             |
| 5063L-10-04 | 5063L-18-08 |             |
| 5063L-10-06 | 5063L-18-12 |             |
| 5063L-10-08 | 5063L-22-12 |             |

## 5063S

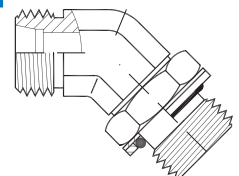
90° DIN HEAVY DUTY X MALE BSPT ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5063S-06-04 | 5063S-14-08 | 5063S-25-16 |
| 5063S-08-04 | 5063S-16-06 | 5063S-30-16 |
| 5063S-10-06 | 5063S-16-08 | 5063S-30-20 |
| 5063S-12-06 | 5063S-20-08 | 5063S-38-24 |
| 5063S-12-08 | 5063S-20-12 |             |
| 5063S-14-06 | 5063S-25-12 |             |

## 5066L

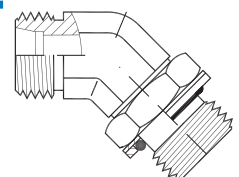
45° DIN LIGHT DUTY X MALE METRIC ADJUSTABLE ELBOW



|             |             |
|-------------|-------------|
| 5066L-06-10 | 5066L-15-18 |
| 5066L-08-12 | 5066L-18-22 |
| 5066L-10-14 | 5066L-22-27 |
| 5066L-12-16 | 5066L-28-33 |

## 5066S

45° DIN HEAVY DUTY X MALE METRIC ADJUSTABLE ELBOW



|             |             |
|-------------|-------------|
| 5066S-06-12 | 5066S-14-20 |
| 5066S-08-14 | 5066S-16-22 |
| 5066S-10-16 | 5066S-20-27 |
| 5066S-12-18 | 5066S-25-33 |

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.



# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

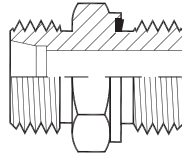
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 5068L

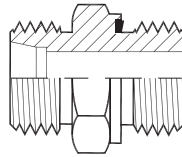
DIN LIGHT DUTY X MALE METRIC ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5068L-06-10 | 5068L-12-14 | 5068L-18-22 |
| 5068L-08-10 | 5068L-12-16 | 5068L-22-22 |
| 5068L-08-12 | 5068L-12-18 | 5068L-22-26 |
| 5068L-08-18 | 5068L-12-22 | 5068L-28-33 |
| 5068L-10-14 | 5068L-15-16 | 5068L-35-42 |
| 5068L-10-16 | 5068L-15-18 | 5068L-42-48 |
| 5068L-10-18 | 5068L-15-22 |             |
| 5068L-10-22 | 5068L-18-18 |             |

## 5068S

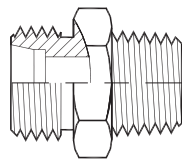
DIN HEAVY DUTY X MALE METRIC ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5068S-06-12 | 5068S-16-18 | 5068S-30-33 |
| 5068S-08-14 | 5068S-16-22 | 5068S-30-42 |
| 5068S-10-16 | 5068S-20-22 | 5068S-38-48 |
| 5068S-12-18 | 5068S-20-27 |             |
| 5068S-12-22 | 5068S-25-27 |             |
| 5068S-14-20 | 5068S-25-33 |             |

## 5068LLT

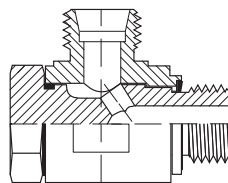
DIN EXTRA LIGHT DUTY X MALE METRIC TAPER (AVAILABLE COMPLETE ONLY)



|                 |                  |
|-----------------|------------------|
| 5068LLT-04-6X1C | 5068LLT-06-10X1C |
| 5068LLT-04-8X1C | 5068LLT-08-10X1C |

## 5069BJL

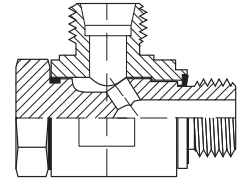
90° DIN LIGHT BANJO X MALE METRIC ES SEAL ELBOW



|               |               |               |
|---------------|---------------|---------------|
| 5069BJL-06-10 | 5069BJL-15-18 | 5069BJL-35-42 |
| 5069BJL-08-12 | 5069BJL-18-22 | 5069BJL-42-48 |
| 5069BJL-10-14 | 5069BJL-22-26 |               |
| 5069BJL-12-16 | 5069BJL-28-33 |               |

## 5069BJS

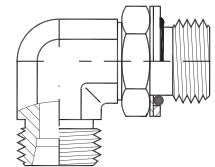
90° DIN HEAVY BANJO X MALE METRIC ES SEAL ELBOW



|               |               |               |
|---------------|---------------|---------------|
| 5069BJS-06-12 | 5069BJS-14-20 | 5069BJS-30-42 |
| 5069BJS-08-14 | 5069BJS-16-22 | 5069BJS-38-48 |
| 5069BJS-10-16 | 5069BJS-20-27 |               |
| 5069BJS-12-18 | 5069BJS-25-33 |               |

## 5069L

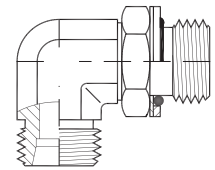
90° DIN LIGHT DUTY X MALE METRIC ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5069L-06-10 | 5069L-15-18 | 5069L-35-42 |
| 5069L-08-12 | 5069L-18-22 | 5069L-42-48 |
| 5069L-10-14 | 5069L-22-27 |             |
| 5069L-12-16 | 5069L-28-33 |             |

## 5069S

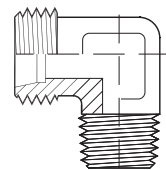
90° DIN HEAVY DUTY X MALE METRIC ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5069S-06-12 | 5069S-14-20 | 5069S-30-42 |
| 5069S-08-14 | 5069S-16-22 | 5069S-38-48 |
| 5069S-10-16 | 5069S-20-27 |             |
| 5069S-12-18 | 5069S-25-33 |             |

## 5069LLT

90° DIN EXTRA LIGHT DUTY X MALE METRIC TAPER ELBOW (AVAILABLE COMPLETE ONLY)



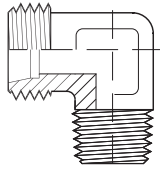
|                  |
|------------------|
| 5069LLT-06-10X1C |
| 5069LLT-08-10X1C |



# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5070LL

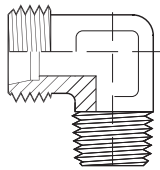
90° DIN EXTRA LIGHT DUTY X MALE NPT ELBOW  
(AVAILABLE COMPLETE ONLY)



|               |               |               |
|---------------|---------------|---------------|
| 5070LL-04-02C | 5070LL-08-02C | 5070LL-12-06C |
| 5070LL-06-02C | 5070LL-10-04C |               |

## 5070L

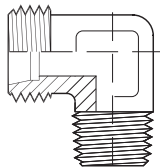
90° DIN LIGHT DUTY X MALE NPT ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5070L-06-02 | 5070L-12-04 | 5070L-28-16 |
| 5070L-06-04 | 5070L-12-06 | 5070L-35-20 |
| 5070L-08-02 | 5070L-12-08 | 5070L-42-24 |
| 5070L-08-04 | 5070L-15-06 |             |
| 5070L-10-02 | 5070L-15-08 |             |
| 5070L-10-04 | 5070L-18-08 |             |
| 5070L-10-06 | 5070L-18-12 |             |
| 5070L-10-08 | 5070L-22-12 |             |

## 5070S

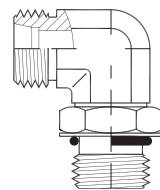
90° DIN HEAVY DUTY X MALE NPT ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5070S-06-04 | 5070S-14-08 | 5070S-25-16 |
| 5070S-08-04 | 5070S-16-06 | 5070S-30-16 |
| 5070S-10-06 | 5070S-16-08 | 5070S-30-20 |
| 5070S-12-06 | 5070S-20-08 | 5070S-38-24 |
| 5070S-12-08 | 5070S-20-12 |             |
| 5070S-14-06 | 5070S-25-12 |             |

## 5077L

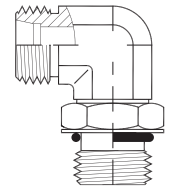
90° DIN LIGHT DUTY X MALE SAE ORB ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5077L-06-04 | 5077L-15-10 | 5077L-35-20 |
| 5077L-08-04 | 5077L-18-10 | 5077L-42-24 |
| 5077L-10-06 | 5077L-22-12 |             |
| 5077L-12-08 | 5077L-28-16 |             |

## 5077S

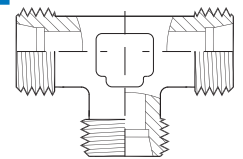
90° DIN HEAVY DUTY X MALE SAE ORB ADJUSTABLE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| 5077S-06-04 | 5077S-14-10 | 5077S-30-20 |
| 5077S-08-06 | 5077S-16-10 | 5077S-38-24 |
| 5077S-10-06 | 5077S-20-12 |             |
| 5077S-12-08 | 5077S-25-16 |             |

## 5080LL

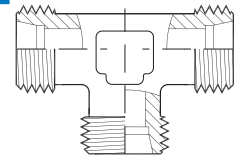
DIN UNION TEE EXTRA LIGHT DUTY (AVAILABLE COMPLETE ONLY)



|            |            |            |
|------------|------------|------------|
| 5080LL-04C | 5080LL-08C | 5080LL-12C |
| 5080LL-06C | 5080LL-10C |            |

## 5080L

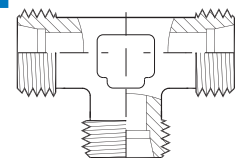
DIN UNION TEE LIGHT DUTY



|          |          |          |
|----------|----------|----------|
| 5080L-06 | 5080L-15 | 5080L-35 |
| 5080L-08 | 5080L-18 | 5080L-42 |
| 5080L-10 | 5080L-22 |          |
| 5080L-12 | 5080L-28 |          |

## 5080S

DIN UNION TEE HEAVY DUTY



|          |          |          |
|----------|----------|----------|
| 5080S-06 | 5080S-14 | 5080S-30 |
| 5080S-08 | 5080S-16 | 5080S-38 |
| 5080S-10 | 5080S-20 |          |
| 5080S-12 | 5080S-25 |          |

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

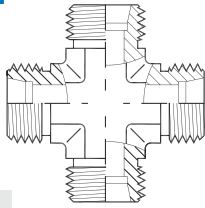
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## 5096L

DIN UNION CROSS LIGHT DUTY

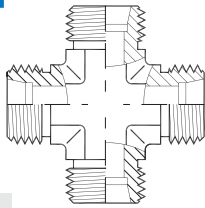


5096L-06  
5096L-08

5096L-10  
5096L-12

## 5096S

DIN UNION CROSS HEAVY DUTY

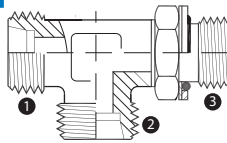


5096S-06  
5096S-08

5096S-10  
5096S-12

## 5158L

DIN LIGHT DUTY X MALE BSPP  
ADJUSTABLE RUN TEE



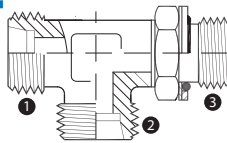
5158L-06-06-02  
5158L-08-08-04  
5158L-10-10-04  
5158L-12-12-06

5158L-15-15-08  
5158L-18-18-08  
5158L-22-22-12  
5158L-28-28-16

5158L-35-35-20  
5158L-42-42-24

## 5158S

DIN HEAVY DUTY X MALE BSPP  
ADJUSTABLE RUN TEE



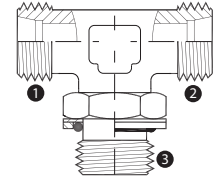
5158S-06-06-04  
5158S-08-08-04  
5158S-10-10-06  
5158S-12-12-06

5158S-14-14-08  
5158S-16-16-08  
5158S-20-20-12  
5158S-25-25-16

5158S-30-30-20  
5158S-38-38-24

## 5159L

DIN LIGHT DUTY X MALE BSPP  
ADJUSTABLE BRANCH TEE



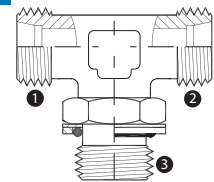
5159L-06-06-02  
5159L-08-08-04  
5159L-10-10-04  
5159L-12-12-06

5159L-15-15-08  
5159L-18-18-08  
5159L-22-22-12  
5159L-28-28-16

5159L-35-35-20  
5159L-42-42-24

## 5159S

DIN HEAVY DUTY X MALE BSPP  
ADJUSTABLE BRANCH TEE



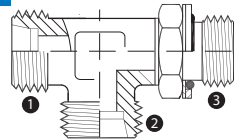
5159S-06-06-04  
5159S-08-08-04  
5159S-10-10-06  
5159S-12-12-06

5159S-14-14-08  
5159S-16-16-08  
5159S-20-20-12  
5159S-25-25-16

5159S-30-30-20  
5159S-38-38-24

## 5168L

DIN LIGHT DUTY X MALE  
METRIC ADJUSTABLE RUN TEE



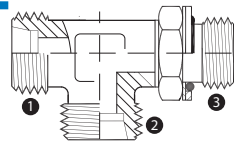
5168L-06-06-10  
5168L-08-08-12  
5168L-10-10-14  
5168L-12-12-16

5168L-15-15-18  
5168L-18-18-22  
5168L-22-22-27  
5168L-28-28-33

5168L-35-35-42  
5168L-42-42-48

## 5168S

DIN HEAVY DUTY X MALE  
METRIC ADJUSTABLE RUN TEE



5168S-06-06-12  
5168S-08-08-14  
5168S-10-10-16  
5168S-12-12-18

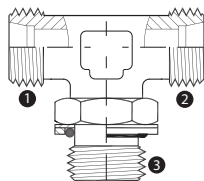
5168S-14-14-20  
5168S-16-16-22  
5168S-20-20-27  
5168S-25-25-33

5168S-30-30-42  
5168S-38-38-48

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5169L

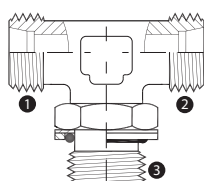
DIN LIGHT DUTY X MALE METRIC  
ADJUSTABLE BRANCH TEE



|                |                |                |
|----------------|----------------|----------------|
| 5169L-06-06-10 | 5169L-15-15-18 | 5169L-35-35-42 |
| 5169L-08-08-12 | 5169L-18-18-22 | 5169L-42-42-48 |
| 5169L-10-10-14 | 5169L-22-22-27 |                |
| 5169L-12-12-16 | 5169L-28-28-33 |                |

## 5169S

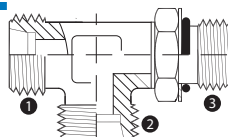
DIN HEAVY DUTY X MALE METRIC  
ADJUSTABLE BRANCH TEE



|                |                |                |
|----------------|----------------|----------------|
| 5169S-06-06-12 | 5169S-14-14-20 | 5169S-30-30-42 |
| 5169S-08-08-14 | 5169S-16-16-22 | 5169S-38-38-48 |
| 5169S-10-10-16 | 5169S-20-20-27 |                |
| 5169S-12-12-18 | 5169S-25-25-33 |                |

## 5178L

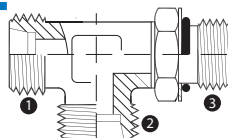
DIN LIGHT DUTY X MALE SAE  
ORB ADJUSTABLE RUN TEE



|                |                |                |
|----------------|----------------|----------------|
| 5178L-06-06-04 | 5178L-15-15-10 | 5178L-35-35-20 |
| 5178L-08-08-04 | 5178L-18-18-10 | 5178L-42-42-24 |
| 5178L-10-10-06 | 5178L-22-22-12 |                |
| 5178L-12-12-08 | 5178L-28-28-16 |                |

## 5178S

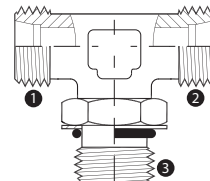
DIN HEAVY DUTY X MALE SAE  
ORB ADJUSTABLE RUN TEE



|                |                |                |
|----------------|----------------|----------------|
| 5178S-06-06-04 | 5178S-14-14-10 | 5178S-30-30-20 |
| 5178S-08-08-06 | 5178S-16-16-10 | 5178S-38-38-24 |
| 5178S-10-10-06 | 5178S-20-20-12 |                |
| 5178S-12-12-08 | 5178S-25-25-16 |                |

## 5179L

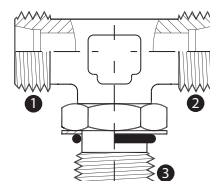
DIN LIGHT DUTY X MALE SAE  
ORB ADJUSTABLE BRANCH TEE



|                |                |                |
|----------------|----------------|----------------|
| 5179L-06-06-04 | 5179L-15-15-10 | 5179L-28-28-16 |
| 5179L-08-08-04 | 5179L-18-18-10 | 5179L-35-35-20 |
| 5179L-10-10-06 | 5179L-18-18-12 | 5179L-42-42-24 |
| 5179L-12-12-08 | 5179L-22-22-12 |                |

## 5179S

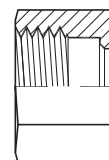
DIN HEAVY DUTY X MALE SAE  
ORB ADJUSTABLE BRANCH TEE



|                |                |                |
|----------------|----------------|----------------|
| 5179S-06-06-04 | 5179S-14-14-10 | 5179S-30-30-20 |
| 5179S-08-08-06 | 5179S-16-16-10 | 5179S-38-38-24 |
| 5179S-10-10-06 | 5179S-20-20-12 |                |
| 5179S-12-12-08 | 5179S-25-25-16 |                |

## 5201LL

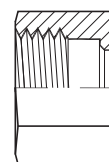
DIN EXTRA LIGHT DUTY TUBE NUT



|           |           |           |
|-----------|-----------|-----------|
| 5201LL-04 | 5201LL-08 | 5201LL-12 |
| 5201LL-06 | 5201LL-10 |           |

## 5201L

DIN LIGHT DUTY TUBE NUT



|          |                 |          |
|----------|-----------------|----------|
| 5201L-06 | 5201L-22        | 5201L-42 |
| 5201L-08 | 5201L-22-30X1.5 |          |
| 5201L-10 | 5201L-28        |          |
| 5201L-12 | 5201L-28-36X1.5 |          |
| 5201L-15 | 5201L-35        |          |
| 5201L-18 | 5201L-35-45X1.5 |          |

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 5201S

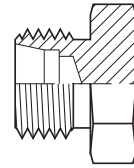
DIN HEAVY DUTY TUBE NUT



|          |          |          |
|----------|----------|----------|
| 5201S-06 | 5201S-14 | 5201S-30 |
| 5201S-08 | 5201S-16 | 5201S-38 |
| 5201S-10 | 5201S-20 |          |
| 5201S-12 | 5201S-25 |          |

## 5203S

DIN HEAVY DUTY TUBE PLUG



|          |          |          |
|----------|----------|----------|
| 5203S-06 | 5203S-14 | 5203S-30 |
| 5203S-08 | 5203S-16 | 5203S-38 |
| 5203S-10 | 5203S-20 |          |
| 5203S-12 | 5203S-25 |          |

## 5202

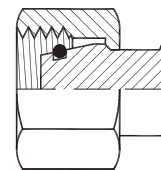
DIN 2353 CUTTING RING



|         |         |         |
|---------|---------|---------|
| 5202-06 | 5202-16 | 5202-30 |
| 5202-08 | 5202-18 | 5202-35 |
| 5202-10 | 5202-20 | 5202-38 |
| 5202-12 | 5202-22 | 5202-42 |
| 5202-14 | 5202-25 |         |
| 5202-15 | 5202-28 |         |

## 5204L

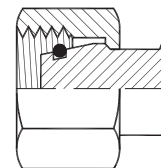
DIN LIGHT DUTY TUBE CAP



|          |          |          |
|----------|----------|----------|
| 5204L-06 | 5204L-15 | 5204L-35 |
| 5204L-08 | 5204L-18 | 5204L-42 |
| 5204L-10 | 5204L-22 |          |
| 5204L-12 | 5204L-28 |          |

## 5204S

DIN HEAVY DUTY TUBE CAP



|          |          |          |
|----------|----------|----------|
| 5204S-06 | 5204S-14 | 5204S-30 |
| 5204S-08 | 5204S-16 | 5204S-38 |
| 5204S-10 | 5204S-20 |          |
| 5204S-12 | 5204S-25 |          |

## 5202LL

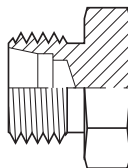
DIN 2353 EXTRA LIGHT CUTTING RING



|           |           |           |
|-----------|-----------|-----------|
| 5202LL-04 | 5202LL-08 | 5202LL-12 |
| 5202LL-06 | 5202LL-10 |           |

## 5203L

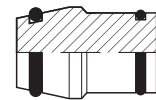
DIN LIGHT DUTY TUBE PLUG



|          |                 |          |
|----------|-----------------|----------|
| 5203L-06 | 5203L-15        | 5203L-28 |
| 5203L-08 | 5203L-18        | 5203L-35 |
| 5203L-10 | 5203L-22        | 5203L-42 |
| 5203L-12 | 5203L-22-30X1.5 |          |

## 5204P

DIN BLANKING PLUG  
(REQUIRES 5201 TUBE  
NUT TO FORM A CAP)

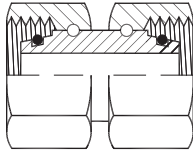


|          |          |          |
|----------|----------|----------|
| 5204P-06 | 5204P-16 | 5204P-30 |
| 5204P-08 | 5204P-18 | 5204P-35 |
| 5204P-10 | 5204P-20 | 5204P-38 |
| 5204P-12 | 5204P-22 | 5204P-42 |
| 5204P-14 | 5204P-25 |          |
| 5204P-15 | 5204P-28 |          |

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5300L

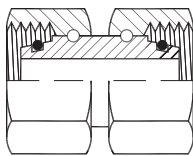
FEMALE DIN LIGHT SOFT SEAL UNION



|          |          |          |
|----------|----------|----------|
| 5300L-06 | 5300L-15 | 5300L-35 |
| 5300L-08 | 5300L-18 | 5300L-42 |
| 5300L-10 | 5300L-22 |          |
| 5300L-12 | 5300L-28 |          |

## 5300S

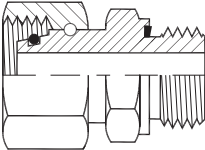
FEMALE DIN HEAVY SOFT SEAL UNION



|          |          |          |
|----------|----------|----------|
| 5300S-06 | 5300S-14 | 5300S-30 |
| 5300S-08 | 5300S-16 | 5300S-38 |
| 5300S-10 | 5300S-20 |          |
| 5300S-12 | 5300S-25 |          |

## 5302L

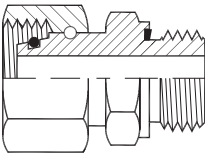
FEMALE DIN LIGHT DUTY X MALE BSP ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5302L-06-02 | 5302L-12-06 | 5302L-22-12 |
| 5302L-08-04 | 5302L-15-08 | 5302L-28-16 |
| 5302L-10-04 | 5302L-18-08 | 5302L-35-20 |
| 5302L-12-04 | 5302L-18-12 | 5302L-42-24 |

## 5302S

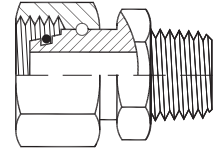
FEMALE DIN HEAVY DUTY X MALE BSP ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5302S-06-04 | 5302S-12-08 | 5302S-25-16 |
| 5302S-08-04 | 5302S-14-08 | 5302S-30-20 |
| 5302S-10-06 | 5302S-16-08 | 5302S-38-24 |
| 5302S-12-06 | 5302S-20-12 |             |

## 5307L

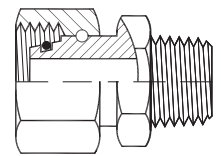
FEMALE DIN LIGHT DUTY X MALE NPT



|             |             |             |
|-------------|-------------|-------------|
| 5307L-06-02 | 5307L-15-08 | 5307L-35-20 |
| 5307L-08-04 | 5307L-18-08 | 5307L-42-24 |
| 5307L-10-04 | 5307L-22-12 |             |
| 5307L-12-06 | 5307L-28-16 |             |

## 5307S

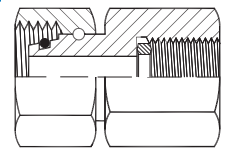
FEMALE DIN HEAVY DUTY X MALE NPT



|             |             |             |
|-------------|-------------|-------------|
| 5307S-06-04 | 5307S-14-08 | 5307S-30-20 |
| 5307S-08-04 | 5307S-16-08 | 5307S-38-24 |
| 5307S-10-06 | 5307S-20-12 |             |
| 5307S-12-06 | 5307S-25-16 |             |

## 5309GCL

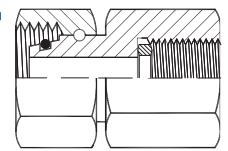
FEMALE DIN LIGHT DUTY X FEMALE BSP GAUGE COUPLING



|               |               |
|---------------|---------------|
| 5309GCL-06-04 | 5309GCL-10-04 |
| 5309GCL-08-04 | 5309GCL-12-04 |

## 5309GCS

FEMALE DIN HEAVY DUTY X FEMALE BSP GAUGE COUPLING



|               |               |
|---------------|---------------|
| 5309GCS-06-08 | 5309GCS-10-08 |
| 5309GCS-08-08 | 5309GCS-12-08 |

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

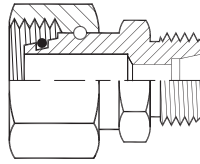
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## 5315L

FEMALE DIN X MALE DIN  
REDUCER LIGHT DUTY

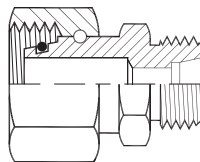


|              |              |              |
|--------------|--------------|--------------|
| 5315L-08-06  | 5315L-22-08* | 5315L-35-15* |
| 5315L-10-06  | 5315L-22-10* | 5315L-35-18* |
| 5315L-10-08  | 5315L-22-12  | 5315L-35-22  |
| 5315L-12-06  | 5315L-22-15  | 5315L-35-28  |
| 5315L-12-08  | 5315L-22-18  | 5315L-42-06* |
| 5315L-12-10  | 5315L-28-06* | 5315L-42-08* |
| 5315L-15-06  | 5315L-28-08* | 5315L-42-10* |
| 5315L-15-08  | 5315L-28-10* | 5315L-42-12* |
| 5315L-15-10  | 5315L-28-12* | 5315L-42-15* |
| 5315L-15-12  | 5315L-28-15* | 5315L-42-18* |
| 5315L-18-06* | 5315L-28-18  | 5315L-42-22* |
| 5315L-18-08* | 5315L-28-22  | 5315L-42-28* |
| 5315L-18-10* | 5315L-35-06* | 5315L-42-35  |
| 5315L-18-12  | 5315L-35-08* |              |
| 5315L-18-15  | 5315L-35-10* |              |
| 5315L-22-06* | 5315L-35-12* |              |

\* min order qty of 200

## 5315S

FEMALE DIN X MALE DIN  
REDUCER HEAVY DUTY

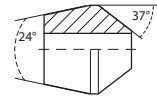


|              |              |              |
|--------------|--------------|--------------|
| 5315S-08-06  | 5315S-20-08* | 5315S-30-14* |
| 5315S-10-06  | 5315S-20-10* | 5315S-30-16* |
| 5315S-10-08  | 5315S-20-12  | 5315S-30-20  |
| 5315S-12-06* | 5315S-20-14* | 5315S-30-25* |
| 5315S-12-08  | 5315S-20-16  | 5315S-38-06* |
| 5315S-12-10  | 5315S-25-06* | 5315S-38-08* |
| 5315S-14-06* | 5315S-25-08* | 5315S-38-10* |
| 5315S-14-08* | 5315S-25-10* | 5315S-38-12* |
| 5315S-14-10  | 5315S-25-12* | 5315S-38-14* |
| 5315S-14-12  | 5315S-25-14* | 5315S-38-16* |
| 5315S-16-06* | 5315S-25-16* | 5315S-38-20* |
| 5315S-16-08* | 5315S-25-20  | 5315S-38-25  |
| 5315S-16-10  | 5315S-30-06* | 5315S-38-30  |
| 5315S-16-12  | 5315S-30-08* |              |
| 5315S-16-14  | 5315S-30-10* |              |
| 5315S-20-06* | 5315S-30-12* |              |

\* min order qty of 200

## 5333

GB 37/74 CONVERSION SEAT  
FOR MALE DIN

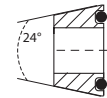


|           |           |
|-----------|-----------|
| 5333-12MM | 5333-22MM |
| 5333-14MM | 5333-24MM |
| 5333-16MM | 5333-30MM |
| 5333-18MM |           |

COMING 2020!

## 5333FF

GB FACE SEAL CONVERSION  
SEAT FOR MALE DIN

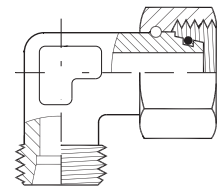


|             |             |
|-------------|-------------|
| 5333FF-12MM | 5333FF-22MM |
| 5333FF-14MM | 5333FF-24MM |
| 5333FF-16MM | 5333FF-30MM |
| 5333FF-18MM |             |

COMING 2020!

## 5360L

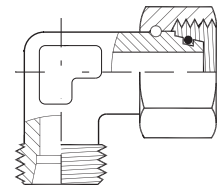
90° DIN LIGHT DUTY X FEMALE  
DIN SWIVEL ELBOW



|          |          |          |
|----------|----------|----------|
| 5360L-06 | 5360L-15 | 5360L-35 |
| 5360L-08 | 5360L-18 | 5360L-42 |
| 5360L-10 | 5360L-22 |          |
| 5360L-12 | 5360L-28 |          |

## 5360S

90° DIN HEAVY DUTY X FEMALE  
DIN SWIVEL ELBOW



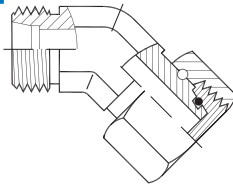
|          |          |          |
|----------|----------|----------|
| 5360S-06 | 5360S-14 | 5360S-30 |
| 5360S-08 | 5360S-16 | 5360S-38 |
| 5360S-10 | 5360S-20 |          |
| 5360S-12 | 5360S-25 |          |



# STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## 5362L

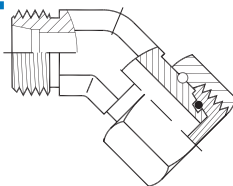
45° DIN X FEMALE DIN SWIVEL  
LIGHT DUTY ELBOW



|          |          |          |
|----------|----------|----------|
| 5362L-06 | 5362L-15 | 5362L-35 |
| 5362L-08 | 5362L-18 | 5362L-42 |
| 5362L-10 | 5362L-22 |          |
| 5362L-12 | 5362L-28 |          |

## 5362S

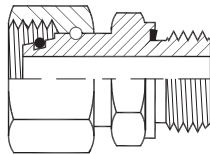
45° DIN X FEMALE DIN SWIVEL  
HEAVY DUTY ELBOW



|          |          |          |
|----------|----------|----------|
| 5362S-06 | 5362S-14 | 5362S-30 |
| 5362S-08 | 5362S-16 | 5362S-38 |
| 5362S-10 | 5362S-20 |          |
| 5362S-12 | 5362S-25 |          |

## 5368L

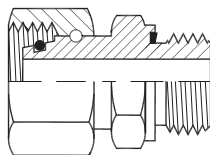
FEMALE DIN LIGHT DUTY X MALE  
METRIC ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5368L-06-10 | 5368L-15-18 | 5368L-35-42 |
| 5368L-08-12 | 5368L-18-22 | 5368L-42-48 |
| 5368L-10-14 | 5368L-22-26 |             |
| 5368L-12-16 | 5368L-28-33 |             |

## 5368S

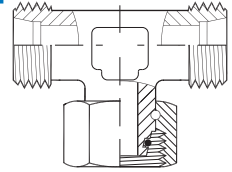
FEMALE DIN HEAVY DUTY X  
MALE METRIC ES SEAL



|             |             |             |
|-------------|-------------|-------------|
| 5368S-06-12 | 5368S-14-20 | 5368S-30-42 |
| 5368S-08-14 | 5368S-16-22 | 5368S-38-48 |
| 5368S-10-16 | 5368S-20-27 |             |
| 5368S-12-18 | 5368S-25-33 |             |

## 5387L

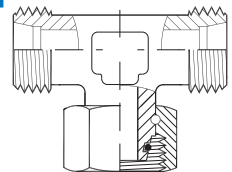
FEMALE DIN LIGHT DUTY  
SWIVEL BRANCH TEE



|          |          |          |
|----------|----------|----------|
| 5387L-06 | 5387L-15 | 5387L-35 |
| 5387L-08 | 5387L-18 | 5387L-42 |
| 5387L-10 | 5387L-22 |          |
| 5387L-12 | 5387L-28 |          |

## 5387S

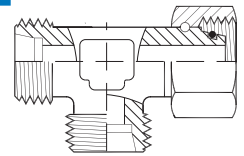
FEMALE DIN HEAVY DUTY  
SWIVEL BRANCH TEE



|          |          |          |
|----------|----------|----------|
| 5387S-06 | 5387S-14 | 5387S-30 |
| 5387S-08 | 5387S-16 | 5387S-38 |
| 5387S-10 | 5387S-20 |          |
| 5387S-12 | 5387S-25 |          |

## 5390L

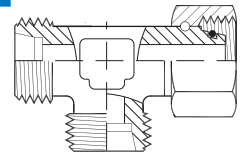
FEMALE DIN LIGHT DUTY  
SWIVEL RUN TEE



|          |          |          |
|----------|----------|----------|
| 5390L-06 | 5390L-15 | 5390L-35 |
| 5390L-08 | 5390L-18 | 5390L-42 |
| 5390L-10 | 5390L-22 |          |
| 5390L-12 | 5390L-28 |          |

## 5390S

FEMALE DIN HEAVY DUTY  
SWIVEL RUN TEE



|          |          |          |
|----------|----------|----------|
| 5390S-06 | 5390S-14 | 5390S-30 |
| 5390S-08 | 5390S-16 | 5390S-38 |
| 5390S-10 | 5390S-20 |          |
| 5390S-12 | 5390S-25 |          |

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

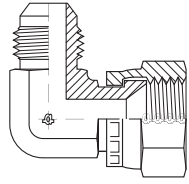
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 3705

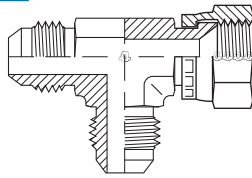
90° MALE JIC X FEMALE JIC ELBOW



|            |            |            |
|------------|------------|------------|
| 3705-04-04 | 3705-10-10 | 3705-24-24 |
| 3705-05-05 | 3705-12-12 |            |
| 3705-06-06 | 3705-16-16 |            |
| 3705-08-08 | 3705-20-20 |            |

## 4757

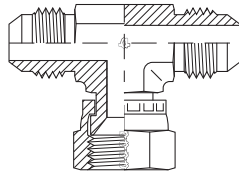
FEMALE JIC RUN TEE



|               |               |               |
|---------------|---------------|---------------|
| 4757-04-04-04 | 4757-10-10-10 | 4757-24-24-24 |
| 4757-05-05-05 | 4757-12-12-12 |               |
| 4757-06-06-06 | 4757-16-16-16 |               |
| 4757-08-08-08 | 4757-20-20-20 |               |

## 4775

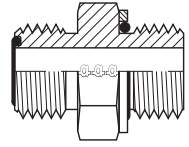
FEMALE JIC BRANCH TEE



|               |               |               |
|---------------|---------------|---------------|
| 4775-04-04-04 | 4775-10-10-10 | 4775-24-24-24 |
| 4775-05-05-05 | 4775-12-12-12 |               |
| 4775-06-06-06 | 4775-16-16-16 |               |
| 4775-08-08-08 | 4775-20-20-20 |               |

## 6002

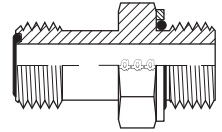
MALE ORFS X MALE BSPP C/W OR & RR



|            |            |            |
|------------|------------|------------|
| 6002-04-02 | 6002-08-08 | 6002-16-16 |
| 6002-04-04 | 6002-08-12 | 6002-20-16 |
| 6002-04-06 | 6002-08-16 | 6002-20-20 |
| 6002-06-04 | 6002-10-08 | 6002-24-24 |
| 6002-06-06 | 6002-12-08 |            |
| 6002-06-08 | 6002-12-12 |            |
| 6002-08-04 | 6002-12-16 |            |
| 6002-08-06 | 6002-16-12 |            |

## 6002L

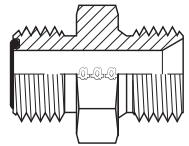
MALE ORFS X MALE BSPP LONG C/W OR & RR



|             |             |
|-------------|-------------|
| 6002L-08-06 | 6002L-12-12 |
| 6002L-08-08 | 6002L-16-16 |
| 6002L-10-08 | 6002L-20-20 |
| 6002L-10-12 |             |

## 6005

MALE ORFS X MALE BSPP

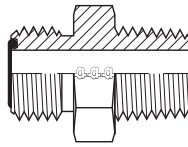


|            |            |            |
|------------|------------|------------|
| 6005-04-02 | 6005-10-08 | 6005-20-12 |
| 6005-06-04 | 6005-10-12 | 6005-20-16 |
| 6005-06-06 | 6005-12-08 | 6005-20-20 |
| 6005-06-08 | 6005-12-12 | 6005-24-24 |
| 6005-08-04 | 6005-12-16 |            |
| 6005-08-06 | 6005-16-08 |            |
| 6005-08-08 | 6005-16-12 |            |
| 6005-10-06 | 6005-16-16 |            |

# STEEL INTERNATIONAL ADAPTERS

## 6011

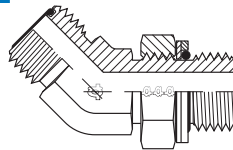
MALE ORFS X MALE BSPT SHORT



|            |            |
|------------|------------|
| 6011-04-04 | 6011-12-12 |
| 6011-06-02 | 6011-16-16 |
| 6011-06-06 | 6011-20-20 |
| 6011-08-08 | 6011-24-24 |

## 6058

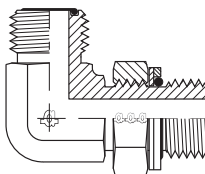
45° MALE ORFS X MALE BSPP  
ADJUSTABLE ELBOW



|            |            |            |
|------------|------------|------------|
| 6058-04-02 | 6058-08-06 | 6058-16-16 |
| 6058-04-04 | 6058-08-08 |            |
| 6058-06-04 | 6058-10-08 |            |
| 6058-06-06 | 6058-12-12 |            |

## 6059

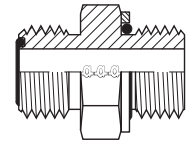
90° ORFS X MALE BSPP  
ADJUSTABLE ELBOW



|            |            |            |
|------------|------------|------------|
| 6059-04-02 | 6059-10-08 | 6059-20-20 |
| 6059-04-04 | 6059-12-08 | 6059-20-24 |
| 6059-06-04 | 6059-12-12 | 6059-24-20 |
| 6059-06-06 | 6059-12-16 | 6059-24-24 |
| 6059-06-08 | 6059-16-12 |            |
| 6059-08-04 | 6059-16-16 |            |
| 6059-08-06 | 6059-16-20 |            |
| 6059-08-08 | 6059-20-16 |            |

## 6068

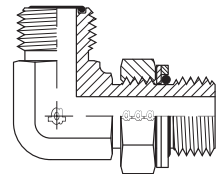
MALE ORFS X MALE METRIC C/W  
OR & RR



|            |            |            |
|------------|------------|------------|
| 6068-04-10 | 6068-08-16 | 6068-12-27 |
| 6068-04-12 | 6068-08-18 | 6068-16-33 |
| 6068-04-14 | 6068-10-18 |            |
| 6068-06-12 | 6068-10-22 |            |
| 6068-06-14 | 6068-12-22 |            |
| 6068-06-16 | 6068-12-26 |            |

## 6069

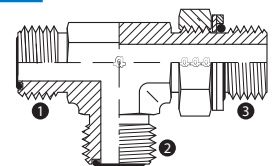
90° MALE ORFS X MALE METRIC  
ADJUSTABLE ELBOW



|            |            |            |
|------------|------------|------------|
| 6069-04-10 | 6069-08-16 | 6069-20-33 |
| 6069-04-12 | 6069-08-18 |            |
| 6069-04-14 | 6069-10-18 |            |
| 6069-06-14 | 6069-10-22 |            |
| 6069-06-16 | 6069-12-27 |            |
| 6069-06-18 | 6069-16-33 |            |

## 6158

MALE ORFS X MALE BSPP  
ADJUSTABLE RUN TEE



|               |               |
|---------------|---------------|
| 6158-06-06-04 | 6158-10-10-08 |
| 6158-06-06-06 | 6158-12-12-12 |
| 6158-08-08-06 | 6158-12-12-16 |
| 6158-08-08-08 | 6158-16-16-16 |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON  
QUICK REFERENCE

ABOUT

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

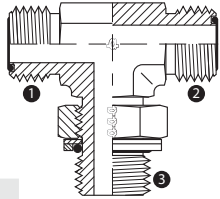
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 6159

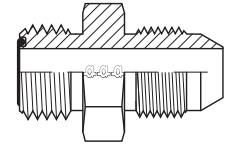
MALE ORFS X MALE BSPP  
ADJUSTABLE BRANCH TEE



- |               |               |
|---------------|---------------|
| 6159-04-04-02 | 6159-08-08-06 |
| 6159-04-04-04 | 6159-08-08-08 |
| 6159-06-06-04 | 6159-10-10-08 |
| 6159-06-06-06 |               |

## 6237

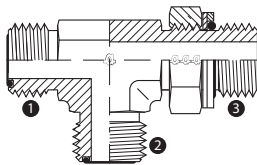
MALE ORFS X MALE KOMATSU



- |            |            |
|------------|------------|
| 6237-04-14 | 6237-12-30 |
| 6237-06-18 | 6237-16-33 |
| 6237-08-22 |            |
| 6237-10-24 |            |

## 6168

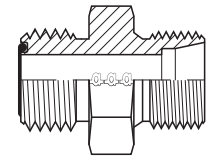
MALE ORFS X MALE METRIC  
ADJUSTABLE RUN TEE



- |               |               |
|---------------|---------------|
| 6168-04-04-10 | 6168-08-08-16 |
| 6168-04-04-12 | 6168-08-08-18 |
| 6168-06-06-14 | 6168-10-10-22 |
| 6168-06-06-16 |               |

## 6247

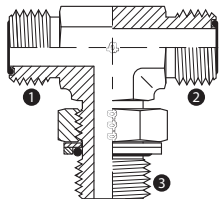
MALE ORFS X MALE KOBELCO



- |               |               |
|---------------|---------------|
| 6247-12-22-30 | 6247-16-28-36 |
| 6247-12-28-36 | 6247-16-35-45 |

## 6169

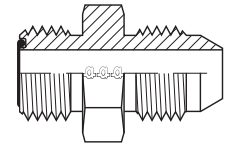
MALE ORFS X MALE METRIC  
ADJUSTABLE BRANCH TEE



- |               |               |               |
|---------------|---------------|---------------|
| 6169-04-04-10 | 6169-08-08-16 | 6169-10-10-22 |
| 6169-06-06-14 | 6169-08-08-18 |               |

## 6337

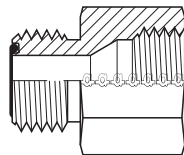
MALE ORFS X MALE JIS



- |            |            |
|------------|------------|
| 6337-04-04 | 6337-08-08 |
| 6337-06-06 |            |

## 6220

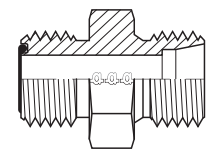
MALE ORFS X FEMALE JIS



- |            |            |
|------------|------------|
| 6220-04-04 | 6220-08-08 |
| 6220-06-06 | 6220-12-12 |

## 6605

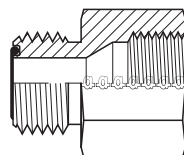
MALE ORFS X DIN LIGHT DUTY



- |                |                |                |
|----------------|----------------|----------------|
| 6605-04-L06-12 | 6605-06-L12-18 | 6605-12-L12-18 |
| 6605-04-L08-14 | 6605-08-L10-16 | 6605-12-L15-22 |
| 6605-06-L08-14 | 6605-08-L12-18 | 6605-12-L18-26 |
| 6605-06-L10-16 | 6605-08-L15-22 | 6605-16-L22-30 |

## 6230

MALE ORFS X FEMALE KOMATSU

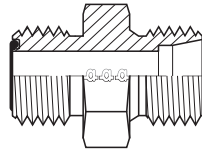


- |            |            |            |
|------------|------------|------------|
| 6230-04-14 | 6230-08-22 | 6230-12-30 |
| 6230-06-18 | 6230-10-24 | 6230-16-33 |

# STEEL INTERNATIONAL ADAPTERS

## 6606

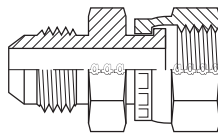
MALE ORFS X DIN HEAVY DUTY



|                |                |                |
|----------------|----------------|----------------|
| 6606-04-S06-14 | 6606-08-S12-20 | 6606-12-S25-36 |
| 6606-04-S08-16 | 6606-08-S14-22 | 6606-16-S25-36 |
| 6606-06-S08-16 | 6606-10-S12-20 | 6606-16-S30-42 |
| 6606-06-S10-18 | 6606-12-S20-30 |                |

## 6620

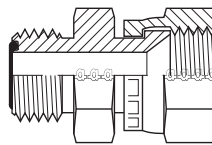
MALE JIC X FEMALE ORFS SWIVEL



|            |            |            |
|------------|------------|------------|
| 6620-04-04 | 6620-10-10 | 6620-24-24 |
| 6620-04-06 | 6620-10-12 |            |
| 6620-06-04 | 6620-12-12 |            |
| 6620-06-06 | 6620-12-16 |            |
| 6620-06-08 | 6620-16-16 |            |
| 6620-08-08 | 6620-20-20 |            |

## 6621

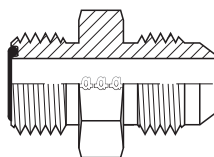
MALE ORFS X FEMALE JIC SWIVEL



|            |            |
|------------|------------|
| 6621-04-04 | 6621-12-12 |
| 6621-06-06 | 6621-16-16 |
| 6621-08-08 | 6621-20-20 |
| 6621-10-10 | 6621-24-24 |

## 6622

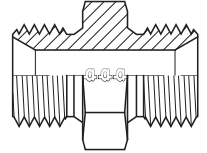
MALE ORFS X MALE JIC



|            |            |            |
|------------|------------|------------|
| 6622-04-04 | 6622-08-08 | 6622-20-20 |
| 6622-06-04 | 6622-10-10 | 6622-24-24 |
| 6622-06-06 | 6622-12-12 |            |
| 6622-06-08 | 6622-16-16 |            |

## 9000

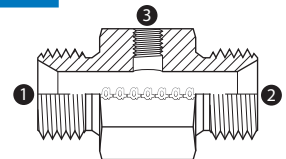
MALE BSPP NIPPLE



|            |            |            |
|------------|------------|------------|
| 9000-02-02 | 9000-12-08 | 9000-24-10 |
| 9000-04-02 | 9000-12-10 | 9000-24-12 |
| 9000-04-04 | 9000-12-12 | 9000-24-16 |
| 9000-06-02 | 9000-16-04 | 9000-24-20 |
| 9000-06-04 | 9000-16-06 | 9000-24-24 |
| 9000-06-06 | 9000-16-08 | 9000-32-12 |
| 9000-08-02 | 9000-16-10 | 9000-32-16 |
| 9000-08-04 | 9000-16-12 | 9000-32-20 |
| 9000-08-06 | 9000-16-16 | 9000-32-24 |
| 9000-08-08 | 9000-20-06 | 9000-32-32 |
| 9000-10-04 | 9000-20-08 | 9000-40-24 |
| 9000-10-06 | 9000-20-10 | 9000-40-32 |
| 9000-10-08 | 9000-20-12 | 9000-40-40 |
| 9000-10-10 | 9000-20-16 | 9000-48-32 |
| 9000-12-04 | 9000-20-20 | 9000-48-40 |
| 9000-12-06 | 9000-24-08 | 9000-48-48 |

## 9000TP

MALE BSPP TEST PORT ADAPTER



|                    |                    |
|--------------------|--------------------|
| 9000TP-04-04-02BSP | 9000TP-12-12-02BSP |
| 9000TP-06-06-02BSP | 9000TP-12-12-04BSP |
| 9000TP-08-08-02BSP | 9000TP-16-16-04BSP |
| 9000TP-08-08-04BSP | 9000TP-24-24-04BSP |

\* Test Port = BSP

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

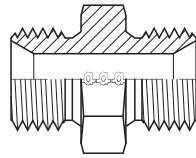
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9001

MALE METRIC NIPPLE

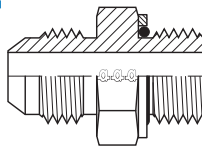


|                |                |                |
|----------------|----------------|----------------|
| 9001-10-10     | 9001-18-18     | 9001-24-20     |
| 9001-12-10X1.0 | 9001-20-16     | 9001-24-22     |
| 9001-12-10     | 9001-20-18     | 9001-24-24     |
| 9001-12-12     | 9001-20-20     | 9001-26-18     |
| 9001-14-12     | 9001-22-10X1.0 | 9001-26-22     |
| 9001-14-14     | 9001-22-14     | 9001-26-24     |
| 9001-16-12     | 9001-22-16     | 9001-26-26     |
| 9001-16-14     | 9001-22-18     | 9001-30-22     |
| 9001-16-16     | 9001-22-20     | 9001-30X2.0-22 |
| 9001-18-12     | 9001-22-22     | 9001-30-24     |
| 9001-18-14     | 9001-24-16     | 9001-30-26     |
| 9001-18-16     | 9001-24-18     | 9001-30-30     |

\*Default thread pitch = 1.5mm

## 9002

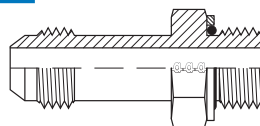
MALE JIC X MALE BSPP  
C/W OR & RR



|            |            |            |
|------------|------------|------------|
| 9002-04-02 | 9002-08-08 | 9002-20-20 |
| 9002-04-04 | 9002-08-12 | 9002-20-16 |
| 9002-04-06 | 9002-10-08 | 9002-24-20 |
| 9002-05-04 | 9002-10-12 | 9002-24-24 |
| 9002-05-06 | 9002-12-08 | 9002-32-32 |
| 9002-06-04 | 9002-12-12 |            |
| 9002-06-06 | 9002-12-16 |            |
| 9002-06-08 | 9002-16-12 |            |
| 9002-08-04 | 9002-16-16 |            |
| 9002-08-06 | 9002-16-20 |            |

## 9002L

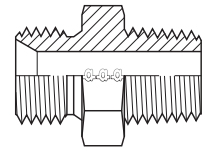
MALE JIC X MALE BSPP -  
LONG C/W OR & RR



|             |             |             |
|-------------|-------------|-------------|
| 9002L-04-04 | 9002L-10-08 | 9002L-20-20 |
| 9002L-06-04 | 9002L-12-12 |             |
| 9002L-08-06 | 9002L-12-16 |             |
| 9002L-08-08 | 9002L-16-16 |             |

## 9003

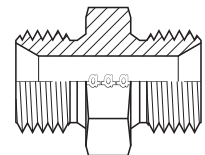
MALE BSPP X MALE BSPT



|            |            |            |
|------------|------------|------------|
| 9003-02-02 | 9003-08-08 | 9003-16-20 |
| 9003-02-04 | 9003-08-10 | 9003-16-24 |
| 9003-02-06 | 9003-08-12 | 9003-16-32 |
| 9003-02-08 | 9003-08-16 | 9003-20-12 |
| 9003-04-02 | 9003-10-06 | 9003-20-16 |
| 9003-04-04 | 9003-10-08 | 9003-20-20 |
| 9003-04-06 | 9003-10-10 | 9003-20-24 |
| 9003-04-08 | 9003-10-12 | 9003-20-32 |
| 9003-04-12 | 9003-12-04 | 9003-24-16 |
| 9003-04-16 | 9003-12-06 | 9003-24-20 |
| 9003-06-02 | 9003-12-08 | 9003-24-24 |
| 9003-06-04 | 9003-12-10 | 9003-24-32 |
| 9003-06-06 | 9003-12-12 | 9003-32-20 |
| 9003-06-08 | 9003-12-16 | 9003-32-24 |
| 9003-06-10 | 9003-12-20 | 9003-32-32 |
| 9003-06-12 | 9003-16-06 | 9003-40-40 |
| 9003-06-16 | 9003-16-08 | 9003-48-48 |
| 9003-08-02 | 9003-16-10 |            |
| 9003-08-04 | 9003-16-12 |            |
| 9003-08-06 | 9003-16-16 |            |

## 9004

MALE BSPP X MALE METRIC



|                 |                |                |
|-----------------|----------------|----------------|
| 9004-02-10      | 9004-06-24     | 9004-12-30     |
| 9004-02-12      | 9004-08-12     | 9004-12-33X2.0 |
| 9004-02-14      | 9004-08-14     | 9004-16-18     |
| 9004-04-10      | 9004-08-16     | 9004-16-22     |
| 9004-04-08X1.0  | 9004-08-18     | 9004-16-26     |
| 9004-04-10X1.0  | 9004-08-20     | 9004-16-27X2.0 |
| 9004-04-10X1.25 | 9004-08-22     | 9004-16-28     |
| 9004-04-12      | 9004-08-24     | 9004-16-30     |
| 9004-04-14      | 9004-08-26     | 9004-16-36     |
| 9004-04-16      | 9004-08-27     | 9004-16-38     |
| 9004-04-18      | 9004-08-28     | 9004-20-30     |
| 9004-04-20      | 9004-10-22     | 9004-20-38     |
| 9004-04-22      | 9004-10-26     | 9004-20-48     |
| 9004-04-24      | 9004-12-16     | 9004-24-38     |
| 9004-06-12      | 9004-12-18     | 9004-24-45     |
| 9004-06-14      | 9004-12-20     | 9004-32-45     |
| 9004-06-16      | 9004-12-22     | 9004-32-52     |
| 9004-06-18      | 9004-12-24     |                |
| 9004-06-20      | 9004-12-26     |                |
| 9004-06-22      | 9004-12-27X1.5 |                |

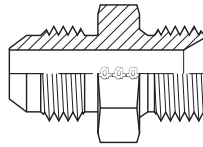
\*Default thread pitch = 1.5mm



# STEEL INTERNATIONAL ADAPTERS

## 9005

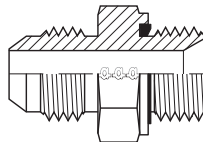
MALE JIC X MALE BSPP



|            |            |            |
|------------|------------|------------|
| 9005-03-04 | 9005-08-10 | 9005-16-10 |
| 9005-04-02 | 9005-08-12 | 9005-16-12 |
| 9005-04-04 | 9005-08-16 | 9005-16-16 |
| 9005-04-06 | 9005-10-04 | 9005-16-20 |
| 9005-04-08 | 9005-10-06 | 9005-16-24 |
| 9005-04-12 | 9005-10-08 | 9005-16-32 |
| 9005-05-02 | 9005-10-10 | 9005-20-12 |
| 9005-05-04 | 9005-10-12 | 9005-20-16 |
| 9005-05-06 | 9005-10-16 | 9005-20-20 |
| 9005-05-08 | 9005-12-04 | 9005-20-24 |
| 9005-05-10 | 9005-12-06 | 9005-24-12 |
| 9005-06-02 | 9005-12-08 | 9005-24-16 |
| 9005-06-04 | 9005-12-10 | 9005-24-20 |
| 9005-06-06 | 9005-12-12 | 9005-24-24 |
| 9005-06-08 | 9005-12-16 | 9005-24-32 |
| 9005-06-10 | 9005-12-20 | 9005-32-16 |
| 9005-06-12 | 9005-14-08 | 9005-32-20 |
| 9005-08-04 | 9005-14-12 | 9005-32-24 |
| 9005-08-06 | 9005-14-16 | 9005-32-32 |
| 9005-08-08 | 9005-16-08 | 9005-32-40 |

## 9005ES

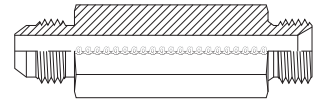
MALE JIC X MALE BSPP C/W ELASTOMERIC SEAL



|              |              |              |
|--------------|--------------|--------------|
| 9005ES-04-02 | 9005ES-08-08 | 9005ES-16-12 |
| 9005ES-04-04 | 9005ES-08-10 | 9005ES-16-16 |
| 9005ES-04-06 | 9005ES-08-12 | 9005ES-16-20 |
| 9005ES-04-08 | 9005ES-08-16 | 9005ES-16-24 |
| 9005ES-05-04 | 9005ES-10-08 | 9005ES-20-16 |
| 9005ES-06-02 | 9005ES-10-10 | 9005ES-20-20 |
| 9005ES-06-04 | 9005ES-10-12 | 9005ES-20-24 |
| 9005ES-06-06 | 9005ES-12-08 | 9005ES-24-20 |
| 9005ES-06-08 | 9005ES-12-10 | 9005ES-24-24 |
| 9005ES-06-12 | 9005ES-12-12 | 9005ES-32-32 |
| 9005ES-08-04 | 9005ES-12-16 |              |
| 9005ES-08-06 | 9005ES-12-20 |              |

## 9005EL

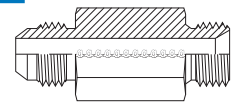
MALE JIC X MALE BSPP - EXTRA LONG



|              |              |
|--------------|--------------|
| 9005EL-04-04 | 9005EL-08-08 |
| 9005EL-06-04 | 9005EL-12-08 |
| 9005EL-06-06 | 9005EL-12-10 |
| 9005EL-08-06 | 9005EL-12-12 |

## 9005L

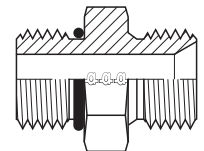
MALE JIC X MALE BSPP - LONG



|             |             |
|-------------|-------------|
| 9005L-04-04 | 9005L-08-06 |
| 9005L-06-06 | 9005L-10-08 |

## 9006

MALE SAE ORB X MALE BSPP



|            |            |            |
|------------|------------|------------|
| 9006-04-02 | 9006-08-12 | 9006-16-20 |
| 9006-04-04 | 9006-10-06 | 9006-20-12 |
| 9006-04-06 | 9006-10-08 | 9006-20-16 |
| 9006-04-08 | 9006-10-10 | 9006-20-20 |
| 9006-05-04 | 9006-10-12 | 9006-20-24 |
| 9006-05-06 | 9006-10-16 | 9006-24-16 |
| 9006-05-08 | 9006-12-06 | 9006-24-20 |
| 9006-06-04 | 9006-12-08 | 9006-24-24 |
| 9006-06-06 | 9006-12-10 | 9006-24-32 |
| 9006-06-08 | 9006-12-12 | 9006-32-32 |
| 9006-08-04 | 9006-12-16 |            |
| 9006-08-06 | 9006-16-08 |            |
| 9006-08-08 | 9006-16-12 |            |
| 9006-08-10 | 9006-16-16 |            |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

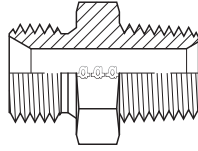
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9007

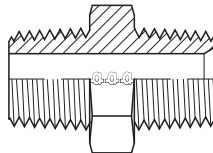
MALE BSPP X MALE NPT



|            |            |            |
|------------|------------|------------|
| 9007-02-02 | 9007-10-08 | 9007-24-16 |
| 9007-02-04 | 9007-10-12 | 9007-24-20 |
| 9007-02-06 | 9007-12-04 | 9007-24-24 |
| 9007-02-08 | 9007-12-06 | 9007-24-32 |
| 9007-04-02 | 9007-12-08 | 9007-32-16 |
| 9007-04-04 | 9007-12-12 | 9007-32-20 |
| 9007-04-06 | 9007-12-16 | 9007-32-24 |
| 9007-04-08 | 9007-12-20 | 9007-32-32 |
| 9007-04-12 | 9007-16-08 | 9007-32-40 |
| 9007-06-02 | 9007-16-12 | 9007-32-48 |
| 9007-06-04 | 9007-16-16 | 9007-40-32 |
| 9007-06-06 | 9007-16-20 | 9007-40-40 |
| 9007-06-08 | 9007-16-24 | 9007-40-48 |
| 9007-06-12 | 9007-16-32 | 9007-48-48 |
| 9007-06-16 | 9007-20-12 | 9007-64-64 |
| 9007-08-04 | 9007-20-16 |            |
| 9007-08-06 | 9007-20-20 |            |
| 9007-08-08 | 9007-20-24 |            |
| 9007-08-12 | 9007-20-32 |            |
| 9007-08-16 | 9007-24-12 |            |

## 9008

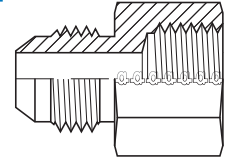
MALE BSPT X MALE NPT



|            |            |            |
|------------|------------|------------|
| 9008-02-02 | 9008-06-06 | 9008-32-32 |
| 9008-02-04 | 9008-08-08 | 9008-40-40 |
| 9008-04-02 | 9008-12-12 | 9008-48-48 |
| 9008-04-04 | 9008-16-16 |            |
| 9008-04-06 | 9008-20-20 |            |
| 9008-06-04 | 9008-24-24 |            |

## 9009

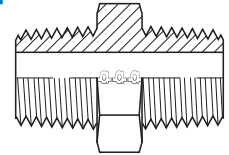
MALE JIC X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 9009-04-02 | 9009-06-08 | 9009-12-12 |
| 9009-04-04 | 9009-08-02 | 9009-12-16 |
| 9009-04-06 | 9009-08-06 | 9009-16-16 |
| 9009-06-02 | 9009-08-08 | 9009-20-20 |
| 9009-06-04 | 9009-08-12 | 9009-24-24 |
| 9009-06-06 | 9009-12-08 | 9009-32-32 |

## 9010

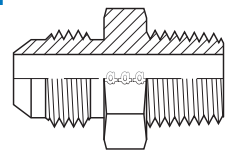
MALE BSPT NIPPLE



|            |            |            |
|------------|------------|------------|
| 9010-02-02 | 9010-08-08 | 9010-20-16 |
| 9010-04-02 | 9010-10-10 | 9010-20-20 |
| 9010-04-04 | 9010-12-06 | 9010-24-20 |
| 9010-06-02 | 9010-12-08 | 9010-24-24 |
| 9010-06-04 | 9010-12-12 | 9010-32-24 |
| 9010-06-06 | 9010-16-08 | 9010-32-32 |
| 9010-08-04 | 9010-16-12 | 9010-40-40 |
| 9010-08-06 | 9010-16-16 | 9010-48-48 |

## 9011

MALE JIC X MALE BSPT

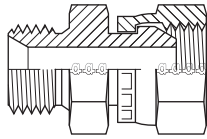


|            |            |            |
|------------|------------|------------|
| 9011-02-04 | 9011-08-06 | 9011-16-16 |
| 9011-04-02 | 9011-08-08 | 9011-16-20 |
| 9011-04-04 | 9011-08-12 | 9011-20-16 |
| 9011-04-06 | 9011-08-16 | 9011-20-20 |
| 9011-05-02 | 9011-10-06 | 9011-20-24 |
| 9011-05-04 | 9011-10-08 | 9011-24-20 |
| 9011-05-06 | 9011-10-12 | 9011-24-24 |
| 9011-06-02 | 9011-12-08 | 9011-24-32 |
| 9011-06-04 | 9011-12-12 | 9011-32-32 |
| 9011-06-06 | 9011-12-16 |            |
| 9011-06-08 | 9011-14-12 |            |
| 9011-08-04 | 9011-16-12 |            |

# STEEL INTERNATIONAL ADAPTERS

## 9015

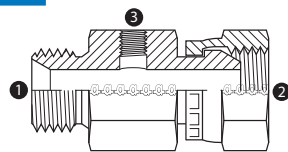
MALE BSPP X FEMALE BSPP SWIVEL



|            |            |            |
|------------|------------|------------|
| 9015-02-02 | 9015-08-12 | 9015-16-12 |
| 9015-02-04 | 9015-08-16 | 9015-16-16 |
| 9015-02-06 | 9015-10-04 | 9015-16-20 |
| 9015-04-02 | 9015-10-06 | 9015-16-24 |
| 9015-04-04 | 9015-10-08 | 9015-20-12 |
| 9015-04-06 | 9015-10-10 | 9015-20-16 |
| 9015-04-08 | 9015-10-12 | 9015-20-20 |
| 9015-04-12 | 9015-10-16 | 9015-20-24 |
| 9015-06-04 | 9015-12-04 | 9015-20-32 |
| 9015-06-06 | 9015-12-06 | 9015-24-16 |
| 9015-06-08 | 9015-12-08 | 9015-24-20 |
| 9015-06-10 | 9015-12-10 | 9015-24-24 |
| 9015-06-12 | 9015-12-12 | 9015-24-32 |
| 9015-06-16 | 9015-12-16 | 9015-32-24 |
| 9015-08-04 | 9015-12-20 | 9015-32-32 |
| 9015-08-06 | 9015-12-24 |            |
| 9015-08-08 | 9015-16-08 |            |
| 9015-08-10 | 9015-16-10 |            |

## 9015TP

BSPP TEST PORT TEE

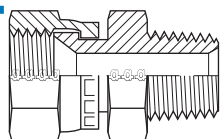


|                  |                  |
|------------------|------------------|
| 9015TP-02-02-B02 | 9015TP-12-12-B04 |
| 9015TP-04-04-B02 | 9015TP-16-16-B02 |
| 9015TP-06-06-B02 | 9015TP-16-16-B04 |
| 9015TP-06-06-B04 | 9015TP-20-20-B02 |
| 9015TP-08-08-B02 | 9015TP-20-20-B04 |
| 9015TP-12-12-B02 | 9015TP-24-24-B04 |

\* Test Port = BSP

## 9017

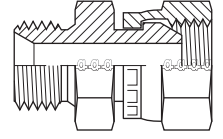
FEMALE JIC (SWIVEL) X MALE NPT



|            |            |            |
|------------|------------|------------|
| 9017-04-02 | 9017-08-08 | 9017-20-20 |
| 9017-04-04 | 9017-10-08 | 9017-24-20 |
| 9017-05-04 | 9017-12-12 | 9017-24-24 |
| 9017-06-04 | 9017-12-16 |            |
| 9017-06-06 | 9017-16-12 |            |
| 9017-08-06 | 9017-16-16 |            |

## 9018

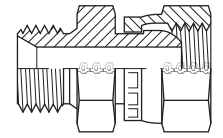
MALE METRIC X FEMALE BSPP SWIVEL



|            |            |
|------------|------------|
| 9018-12-04 | 9018-18-08 |
| 9018-14-04 | 9018-20-08 |
| 9018-14-06 | 9018-22-08 |
| 9018-16-06 | 9018-22-12 |
| 9018-16-08 | 9018-26-08 |
| 9018-18-06 | 9018-26-12 |

## 9019

MALE BSPP X FEMALE METRIC SWIVEL

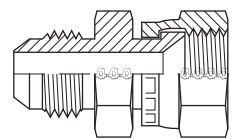


|                |                |                |
|----------------|----------------|----------------|
| 9019-04-L06-12 | 9019-08-L08-14 | 9019-12-L15-22 |
| 9019-04-L08-14 | 9019-08-L10-16 | 9019-12-L18-26 |
| 9019-04-L10-16 | 9019-08-L12-18 | 9019-12-S12-20 |
| 9019-06-L06-12 | 9019-08-L15-22 |                |
| 9019-06-L08-14 | 9019-08-S12-20 |                |
| 9019-06-L10-16 | 9019-08-S16-24 |                |
| 9019-06-L12-18 | 9019-10-L15-22 |                |
| 9019-06-S12-20 | 9019-12-L12-18 |                |

\* Mates with both 30° Metric and 24° DIN males

## 9020

MALE JIC X FEMALE JIC SWIVEL



|            |            |            |
|------------|------------|------------|
| 9020-04-04 | 9020-06-10 | 9020-12-12 |
| 9020-04-06 | 9020-06-12 | 9020-12-14 |
| 9020-04-08 | 9020-08-04 | 9020-12-16 |
| 9020-04-10 | 9020-08-05 | 9020-12-20 |
| 9020-04-12 | 9020-08-06 | 9020-12-24 |
| 9020-05-04 | 9020-08-08 | 9020-16-12 |
| 9020-05-05 | 9020-08-10 | 9020-16-16 |
| 9020-05-06 | 9020-08-12 | 9020-16-20 |
| 9020-05-08 | 9020-10-08 | 9020-16-24 |
| 9020-05-12 | 9020-10-10 | 9020-20-16 |
| 9020-06-04 | 9020-10-12 | 9020-20-20 |
| 9020-06-05 | 9020-12-04 | 9020-20-24 |
| 9020-06-06 | 9020-12-08 | 9020-24-24 |
| 9020-06-08 | 9020-12-10 | 9020-32-32 |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

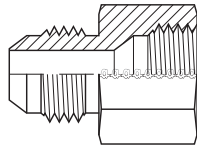
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## 9020C

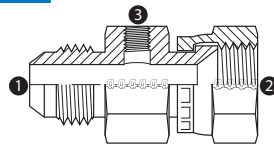
MALE JIC X FEMALE JIC (SOLID)



|             |             |             |
|-------------|-------------|-------------|
| 9020C-06-04 | 9020C-12-10 | 9020C-32-24 |
| 9020C-08-06 | 9020C-16-12 |             |
| 9020C-10-08 | 9020C-20-16 |             |
| 9020C-12-08 | 9020C-24-20 |             |

## 9020TP

MALE JIC X FEMALE JIC TEST PORT TEE

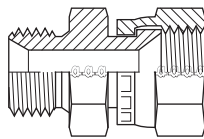


|                     |                  |
|---------------------|------------------|
| 9020TP-04-04-02*    | 9020TP-12-12-02* |
| 9020TP-08-08-02*    | 9020TP-16-16-02* |
| 9020TP-08-08-10X1** |                  |
| 9020TP-10-10-02*    |                  |

\* BSP Test Port  
\*\* Metric Test Port

## 9021

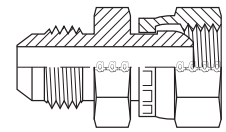
MALE BSPP X FEMALE JIC SWIVEL



|            |            |            |
|------------|------------|------------|
| 9021-02-04 | 9021-08-06 | 9021-12-20 |
| 9021-04-04 | 9021-08-08 | 9021-16-12 |
| 9021-04-05 | 9021-08-10 | 9021-16-16 |
| 9021-04-06 | 9021-08-12 | 9021-16-20 |
| 9021-04-08 | 9021-08-16 | 9021-20-16 |
| 9021-06-04 | 9021-10-08 | 9021-20-20 |
| 9021-06-05 | 9021-10-10 | 9021-20-24 |
| 9021-06-06 | 9021-10-12 | 9021-24-24 |
| 9021-06-08 | 9021-12-06 | 9021-32-24 |
| 9021-06-10 | 9021-12-08 | 9021-32-32 |
| 9021-06-12 | 9021-12-10 |            |
| 9021-06-16 | 9021-12-12 |            |
| 9021-08-04 | 9021-12-14 |            |
| 9021-08-05 | 9021-12-16 |            |

## 9022

MALE JIC X FEMALE METRIC SWIVEL

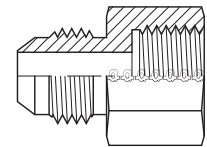


|                |                |                |
|----------------|----------------|----------------|
| 9022-04-L06-12 | 9022-06-L15-22 | 9022-10-L12-18 |
| 9022-04-L08-14 | 9022-06-S12-20 | 9022-10-L15-22 |
| 9022-05-L06-12 | 9022-08-L10-16 | 9022-10-S12-20 |
| 9022-06-L08-14 | 9022-08-L12-18 | 9022-12-S20-30 |
| 9022-06-L10-16 | 9022-08-L15-22 |                |
| 9022-06-L12-18 | 9022-08-S12-20 |                |

\* Mates with both 30° metric and 24° DIN males

## 9022F

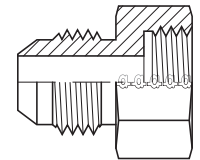
MALE JIC X FEMALE FLAT FACE METRIC (SOLID)



|             |
|-------------|
| 9022F-08-18 |
| 9022F-08-22 |

## 9022FC

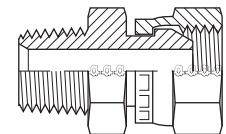
MALE JIC X FEMALE FLAT FACE METRIC SHORT (SOLID)



|              |              |
|--------------|--------------|
| 9022FC-04-12 | 9022FC-08-18 |
| 9022FC-04-14 | 9022FC-08-20 |
| 9022FC-06-16 | 9022FC-08-22 |
| 9022FC-06-18 |              |

## 9023

MALE NPT X FEMALE BSPP SWIVEL

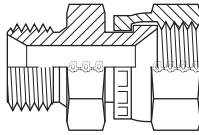


|            |            |            |
|------------|------------|------------|
| 9023-02-02 | 9023-06-08 | 9023-16-12 |
| 9023-04-02 | 9023-08-06 | 9023-16-16 |
| 9023-04-04 | 9023-08-08 |            |
| 9023-04-06 | 9023-12-08 |            |
| 9023-06-04 | 9023-12-12 |            |
| 9023-06-06 | 9023-12-16 |            |

# STEEL INTERNATIONAL ADAPTERS

## 9024

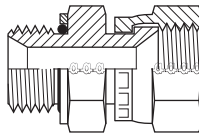
MALE METRIC X FEMALE JIC  
SWIVEL



|            |            |            |
|------------|------------|------------|
| 9024-12-05 | 9024-18-06 | 9024-22-06 |
| 9024-14-06 | 9024-18-08 | 9024-22-08 |
| 9024-14-08 | 9024-18-10 | 9024-22-10 |
| 9024-16-06 | 9024-20-06 |            |
| 9024-16-08 | 9024-20-08 |            |
| 9024-16-10 | 9024-20-10 |            |

## 9024S

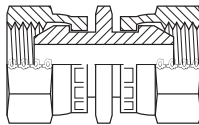
MALE METRIC (SEALED) X  
FEMALE JIC



|             |             |
|-------------|-------------|
| 9024S-12-05 | 9024S-18-08 |
| 9024S-14-06 | 9024S-18-10 |
| 9024S-16-06 | 9024S-20-10 |
| 9024S-16-08 | 9024S-22-06 |
| 9024S-16-10 | 9024S-22-08 |
| 9024S-18-06 | 9024S-22-10 |

## 9025

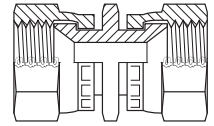
FEMALE BSPP (SWIVEL) UNION



|            |            |            |
|------------|------------|------------|
| 9025-02-02 | 9025-12-04 | 9025-20-16 |
| 9025-04-02 | 9025-12-06 | 9025-20-20 |
| 9025-04-04 | 9025-12-08 | 9025-24-16 |
| 9025-06-04 | 9025-12-10 | 9025-24-20 |
| 9025-06-06 | 9025-12-12 | 9025-24-24 |
| 9025-08-04 | 9025-16-08 | 9025-32-24 |
| 9025-08-06 | 9025-16-10 | 9025-32-32 |
| 9025-08-08 | 9025-16-12 |            |
| 9025-10-08 | 9025-16-16 |            |
| 9025-10-10 | 9025-20-12 |            |

## 9026

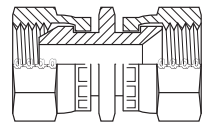
FEMALE JIC (SWIVEL) UNION



|            |            |            |
|------------|------------|------------|
| 9026-04-04 | 9026-08-08 | 9026-16-16 |
| 9026-05-04 | 9026-10-08 | 9026-20-16 |
| 9026-05-05 | 9026-10-10 | 9026-20-20 |
| 9026-06-04 | 9026-12-08 | 9026-24-24 |
| 9026-06-05 | 9026-12-10 | 9026-32-32 |
| 9026-06-06 | 9026-12-12 |            |
| 9026-08-04 | 9026-14-12 |            |
| 9026-08-06 | 9026-16-12 |            |

## 9027

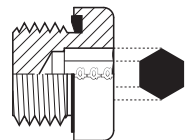
FEMALE BSPP X FEMALE JIC  
SWIVEL



|            |            |            |
|------------|------------|------------|
| 9027-04-04 | 9027-06-08 | 9027-12-12 |
| 9027-04-05 | 9027-08-06 | 9027-12-16 |
| 9027-04-06 | 9027-08-08 | 9027-16-12 |
| 9027-06-04 | 9027-10-10 | 9027-16-16 |
| 9027-06-05 | 9027-12-08 | 9027-20-16 |
| 9027-06-06 | 9027-12-10 | 9027-20-20 |

## 9028

BSPP COUNTERSUNK SEALED  
PLUG



|         |         |
|---------|---------|
| 9028-02 | 9028-12 |
| 9028-04 | 9028-16 |
| 9028-06 | 9028-20 |
| 9028-08 | 9028-24 |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

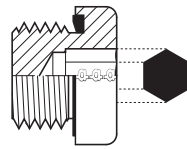
ABOUT

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

## 9029

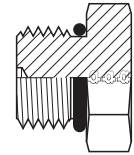
METRIC COUNTERSUNK SEALED PLUG



|             |             |             |
|-------------|-------------|-------------|
| 9029-08X1.0 | 9029-20X1.5 | 9029-42X2.0 |
| 9029-10X1.0 | 9029-22X1.5 | 9029-48X2.0 |
| 9029-12X1.5 | 9029-24X1.5 |             |
| 9029-14X1.5 | 9029-26X1.5 |             |
| 9029-16X1.5 | 9029-27X2.0 |             |
| 9029-18X1.5 | 9029-33X2.0 |             |

## 9030M-ISO

METRIC ISO 6149 HEX PLUG



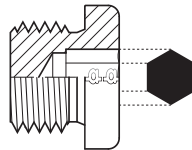
|                  |                  |
|------------------|------------------|
| 9030M-08X1.0 ISO | 9030M-16X1.5 ISO |
| 9030M-10X1.0 ISO | 9030M-18X1.5 ISO |
| 9030M-12X1.5 ISO | 9030M-22X1.5 ISO |
| 9030M-14X1.5 ISO | 9030M-30X2.0 ISO |

FEATURED

STEEL

## 9029A

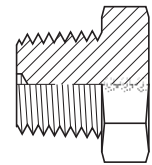
METRIC COUNTERSUNK PLUG (NO SEAL)



|              |              |              |
|--------------|--------------|--------------|
| 9029-10X1.0A | 9029-22X1.5A | 9029-38X1.5A |
| 9029-12X1.5A | 9029-24X1.5A | 9029-42X1.5A |
| 9029-14X1.5A | 9029-30X2.0A | 9029-42X2.0A |
| 9029-16X1.5A | 9029-33X2.0A | 9029-48X1.5A |
| 9029-18X1.5A | 9029-36X1.5A |              |
| 9029-20X1.5A | 9029-36X2.0A |              |

## 9030T

BSPT HEX PLUG

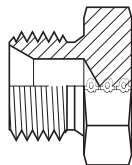


|          |          |          |
|----------|----------|----------|
| 9030T-02 | 9030T-10 | 9030T-24 |
| 9030T-04 | 9030T-12 | 9030T-32 |
| 9030T-06 | 9030T-16 |          |
| 9030T-08 | 9030T-20 |          |

STAINLESS STEEL

## 9030

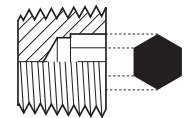
MALE BSPP HEX PLUG



|         |         |         |
|---------|---------|---------|
| 9030-02 | 9030-16 | 9030-64 |
| 9030-04 | 9030-20 |         |
| 9030-06 | 9030-24 |         |
| 9030-08 | 9030-32 |         |
| 9030-10 | 9030-40 |         |
| 9030-12 | 9030-48 |         |

## 9030TCSP

BSPT COUNTERSUNK PLUG



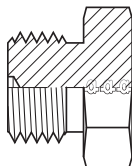
|             |             |             |
|-------------|-------------|-------------|
| 9030TCSP-02 | 9030TCSP-06 | 9030TCSP-12 |
| 9030TCSP-04 | 9030TCSP-08 | 9030TCSP-16 |

BRASS

MEALLEABLE IRON

## 9030M

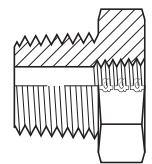
METRIC HEX PLUG



|              |              |              |
|--------------|--------------|--------------|
| 9030M-08X1.0 | 9030M-16X1.5 | 9030M-30X1.5 |
| 9030M-10X1.0 | 9030M-18X1.5 | 9030M-36X2.0 |
| 9030M-10X1.5 | 9030M-20X1.5 |              |
| 9030M-12X1.0 | 9030M-22X1.5 |              |
| 9030M-12X1.5 | 9030M-24X1.5 |              |
| 9030M-14X1.5 | 9030M-26X1.5 |              |

## 9031

MALE BSPT X FEMALE BSPT BUSHING



|            |            |            |
|------------|------------|------------|
| 9031-04-02 | 9031-12-08 | 9031-32-32 |
| 9031-06-02 | 9031-16-08 |            |
| 9031-06-04 | 9031-16-12 |            |
| 9031-08-04 | 9031-20-08 |            |
| 9031-08-06 | 9031-24-16 |            |
| 9031-12-06 | 9031-32-24 |            |

QUICK REFERENCE

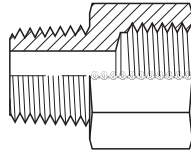
ABOUT



# STEEL INTERNATIONAL ADAPTERS

## 9032

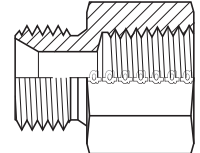
MALE BSPT X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 9032-02-02 | 9032-08-08 | 9032-20-16 |
| 9032-02-04 | 9032-12-04 | 9032-20-20 |
| 9032-04-02 | 9032-12-06 | 9032-24-20 |
| 9032-04-04 | 9032-12-08 | 9032-32-16 |
| 9032-04-06 | 9032-12-12 | 9032-32-20 |
| 9032-06-02 | 9032-16-08 |            |
| 9032-06-04 | 9032-16-12 |            |
| 9032-06-06 | 9032-16-16 |            |

## 9034

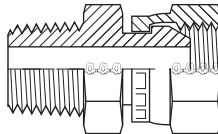
MALE BSPP X FEMALE BSPT



|            |            |            |
|------------|------------|------------|
| 9034-04-02 | 9034-06-04 | 9034-08-08 |
| 9034-04-04 | 9034-06-06 | 9034-12-12 |

## 9032S

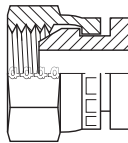
MALE BSPT X FEMALE BSPP SWIVEL



|             |             |
|-------------|-------------|
| 9032S-04-04 | 9032S-12-12 |
| 9032S-06-06 | 9032S-16-16 |
| 9032S-08-06 | 9032S-20-20 |
| 9032S-08-08 | 9032S-24-24 |

## 9033

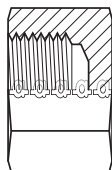
BSPP SWIVEL CAP



|         |         |         |
|---------|---------|---------|
| 9033-02 | 9033-10 | 9033-24 |
| 9033-04 | 9033-12 | 9033-32 |
| 9033-06 | 9033-16 |         |
| 9033-08 | 9033-20 |         |

## 9033F

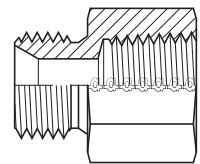
BSPP SOLID CAP



|          |          |          |
|----------|----------|----------|
| 9033F-02 | 9033F-10 | 9033F-24 |
| 9033F-04 | 9033F-12 | 9033F-32 |
| 9033F-06 | 9033F-16 |          |
| 9033F-08 | 9033F-20 |          |

## 9035

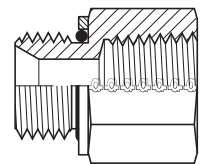
MALE BSPP X FEMALE NPT



|            |            |            |
|------------|------------|------------|
| 9035-02-02 | 9035-10-08 | 9035-24-16 |
| 9035-02-04 | 9035-12-04 | 9035-24-20 |
| 9035-04-02 | 9035-12-06 | 9035-24-24 |
| 9035-04-04 | 9035-12-08 | 9035-24-32 |
| 9035-04-06 | 9035-12-12 | 9035-32-12 |
| 9035-04-08 | 9035-12-16 | 9035-32-24 |
| 9035-06-02 | 9035-16-04 | 9035-32-32 |
| 9035-06-04 | 9035-16-06 | 9035-40-24 |
| 9035-06-06 | 9035-16-08 | 9035-40-32 |
| 9035-06-08 | 9035-16-12 | 9035-40-40 |
| 9035-08-02 | 9035-16-16 | 9035-40-48 |
| 9035-08-04 | 9035-20-08 | 9035-48-32 |
| 9035-08-06 | 9035-20-12 | 9035-48-48 |
| 9035-08-08 | 9035-20-16 |            |
| 9035-08-12 | 9035-20-20 |            |
| 9035-10-06 | 9035-24-12 |            |

## 9035S

MALE BSPP X FEMALE NPT C/W OR & RR



|             |             |             |
|-------------|-------------|-------------|
| 9035S-02-02 | 9035S-08-08 | 9035S-32-32 |
| 9035S-04-02 | 9035S-12-08 |             |
| 9035S-04-04 | 9035S-12-12 |             |
| 9035S-06-04 | 9035S-16-16 |             |
| 9035S-06-06 | 9035S-20-20 |             |
| 9035S-08-06 | 9035S-24-24 |             |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

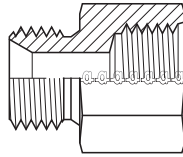
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9036

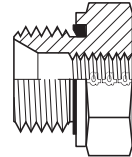
MALE BSPP X FEMALE SAE ORB (SOLID)



|            |            |
|------------|------------|
| 9036-02-04 | 9036-08-10 |
| 9036-04-04 | 9036-12-12 |
| 9036-04-06 | 9036-12-16 |
| 9036-06-06 | 9036-16-16 |
| 9036-06-08 | 9036-20-20 |
| 9036-08-08 | 9036-24-24 |

## 9038ES

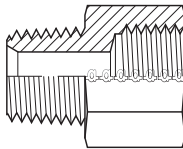
MALE BSPP X FEMALE BSP BUSHING ES SEALED



|              |              |              |
|--------------|--------------|--------------|
| 9038-06-02ES | 9038-20-08ES | 9038-32-20ES |
| 9038-08-04ES | 9038-20-12ES |              |
| 9038-12-04ES | 9038-20-16ES |              |
| 9038-12-06ES | 9038-24-08ES |              |
| 9038-12-08ES | 9038-24-12ES |              |
| 9038-16-04ES | 9038-24-16ES |              |

## 9037

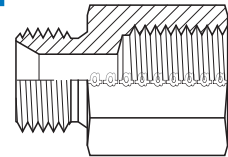
MALE NPT X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 9037-02-02 | 9037-12-06 | 9037-24-20 |
| 9037-02-04 | 9037-12-08 | 9037-24-24 |
| 9037-04-02 | 9037-12-12 | 9037-32-20 |
| 9037-04-04 | 9037-12-16 | 9037-32-32 |
| 9037-04-06 | 9037-16-04 | 9037-40-40 |
| 9037-04-08 | 9037-16-06 | 9037-48-48 |
| 9037-06-04 | 9037-16-08 |            |
| 9037-06-06 | 9037-16-12 |            |
| 9037-08-04 | 9037-16-16 |            |
| 9037-08-06 | 9037-20-08 |            |
| 9037-08-08 | 9037-20-20 |            |
| 9037-12-04 | 9037-24-16 |            |

## 9039

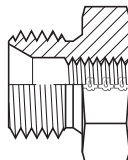
MALE BSPP X FEMALE BSP EXTENDED BUSHING



|            |            |            |
|------------|------------|------------|
| 9039-02-02 | 9039-06-16 | 9039-16-12 |
| 9039-02-04 | 9039-08-06 | 9039-16-16 |
| 9039-02-06 | 9039-08-08 | 9039-16-20 |
| 9039-02-08 | 9039-08-10 | 9039-16-24 |
| 9039-04-02 | 9039-08-12 | 9039-16-32 |
| 9039-04-04 | 9039-08-16 | 9039-20-20 |
| 9039-04-06 | 9039-08-20 | 9039-20-32 |
| 9039-04-08 | 9039-10-08 | 9039-24-20 |
| 9039-04-10 | 9039-12-08 | 9039-24-24 |
| 9039-04-12 | 9039-12-10 | 9039-32-24 |
| 9039-06-04 | 9039-12-12 | 9039-32-32 |
| 9039-06-06 | 9039-12-16 |            |
| 9039-06-08 | 9039-12-20 |            |
| 9039-06-12 | 9039-12-24 |            |

## 9038

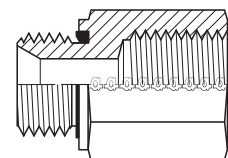
MALE BSPP X FEMALE BSP BUSHING



|            |            |            |
|------------|------------|------------|
| 9038-06-02 | 9038-16-08 | 9038-24-12 |
| 9038-08-02 | 9038-16-10 | 9038-24-16 |
| 9038-08-04 | 9038-20-06 | 9038-32-08 |
| 9038-10-06 | 9038-20-08 | 9038-32-12 |
| 9038-12-04 | 9038-20-12 | 9038-32-16 |
| 9038-12-06 | 9038-20-16 | 9038-32-20 |
| 9038-16-04 | 9038-24-06 | 9038-32-24 |
| 9038-16-06 | 9038-24-08 | 9038-40-32 |

## 9039ES

MALE BSPP X FEMALE BSP EXTENDED BUSHING ES SEALED

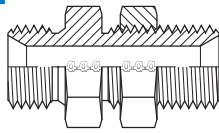


|              |              |              |
|--------------|--------------|--------------|
| 9039-02-04ES | 9039-06-04ES | 9039-24-20ES |
| 9039-02-06ES | 9039-06-06ES |              |
| 9039-04-02ES | 9039-08-12ES |              |
| 9039-04-06ES | 9039-12-16ES |              |

# STEEL INTERNATIONAL ADAPTERS

## 9040

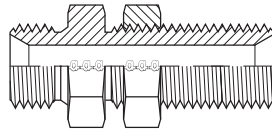
MALE BSPP X MALE BSPP  
BULKHEAD



|            |            |            |
|------------|------------|------------|
| 9040-02-02 | 9040-08-12 | 9040-20-20 |
| 9040-04-04 | 9040-10-10 | 9040-20-24 |
| 9040-04-06 | 9040-12-06 | 9040-24-24 |
| 9040-06-04 | 9040-12-08 | 9040-32-32 |
| 9040-06-06 | 9040-12-12 |            |
| 9040-06-08 | 9040-12-16 |            |
| 9040-08-06 | 9040-16-12 |            |
| 9040-08-08 | 9040-16-16 |            |

## 9040L

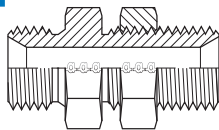
MALE BSPP X MALE BSPP  
BULKHEAD LONG



|                   |                   |                   |
|-------------------|-------------------|-------------------|
| 9040-04-04L-2.25" | 9040-06-06L-2.5"  | 9040-16-16L-3.25" |
| 9040-04-04L-2.5"  | 9040-08-06L-2.75" |                   |
| 9040-04-04L-3.14" | 9040-08-06L-2.87" |                   |
| 9040-04-06L-1.85" | 9040-08-08L-2.75" |                   |

## 9040M

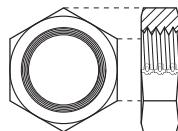
MALE BSPP X MALE METRIC  
BULKHEAD



|             |             |
|-------------|-------------|
| 9040M-06-14 | 9040M-06-18 |
| 9040M-06-16 | 9040M-08-22 |

## 9041

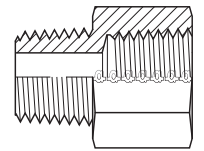
BSPP BULKHEAD LOCKNUT



|         |         |         |
|---------|---------|---------|
| 9041-02 | 9041-10 | 9041-24 |
| 9041-04 | 9041-12 | 9041-32 |
| 9041-06 | 9041-16 |         |
| 9041-08 | 9041-20 |         |

## 9042

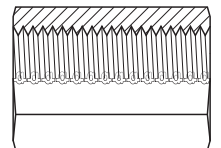
MALE BSPT X FEMALE NPT



|            |            |            |
|------------|------------|------------|
| 9042-02-02 | 9042-12-04 | 9042-20-40 |
| 9042-02-04 | 9042-12-06 | 9042-24-16 |
| 9042-04-02 | 9042-12-08 | 9042-24-20 |
| 9042-04-04 | 9042-12-12 | 9042-24-24 |
| 9042-04-06 | 9042-16-04 | 9042-32-32 |
| 9042-06-02 | 9042-16-12 | 9042-48-48 |
| 9042-06-04 | 9042-16-16 |            |
| 9042-06-06 | 9042-20-12 |            |
| 9042-08-04 | 9042-20-16 |            |
| 9042-08-08 | 9042-20-20 |            |

## 9043

FEMALE BSP X FEMALE BSP  
(SOLID)



|            |            |            |
|------------|------------|------------|
| 9043-02-02 | 9043-12-04 | 9043-20-20 |
| 9043-04-02 | 9043-12-06 | 9043-24-16 |
| 9043-04-04 | 9043-12-08 | 9043-24-24 |
| 9043-06-02 | 9043-12-10 | 9043-32-24 |
| 9043-06-04 | 9043-12-12 | 9043-32-32 |
| 9043-06-06 | 9043-16-06 |            |
| 9043-08-02 | 9043-16-08 |            |
| 9043-08-06 | 9043-16-12 |            |
| 9043-08-08 | 9043-16-16 |            |
| 9043-10-06 | 9043-20-08 |            |
| 9043-10-08 | 9043-20-12 |            |
| 9043-10-10 | 9043-20-16 |            |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

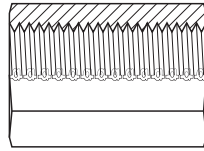
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9043M

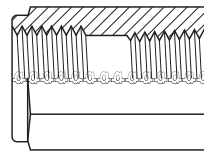
FEMALE METRIC X FEMALE METRIC (SOLID)



|             |             |             |
|-------------|-------------|-------------|
| 9043M-12-12 | 9043M-16-16 | 9043M-22-22 |
| 9043M-14-10 | 9043M-18-18 | 9043M-30-30 |
| 9043M-14-14 | 9043M-20-20 |             |
| 9043M-16-12 | 9043M-22-16 |             |

## 9044

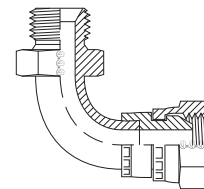
FEMALE BSP X FEMALE NPT (SOLID)



|            |            |            |
|------------|------------|------------|
| 9044-02-02 | 9044-08-08 | 9044-24-24 |
| 9044-04-04 | 9044-12-08 | 9044-32-32 |
| 9044-06-04 | 9044-12-12 | 9044-40-40 |
| 9044-06-06 | 9044-12-16 | 9044-48-48 |
| 9044-08-04 | 9044-16-16 |            |
| 9044-08-06 | 9044-20-20 |            |

## 9045

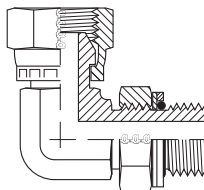
90° MALE BSPP X FEMALE BSPP (SWIVEL) TUBE ELBOW



|            |            |            |
|------------|------------|------------|
| 9045-04-04 | 9045-12-12 | 9045-32-32 |
| 9045-06-06 | 9045-16-16 |            |
| 9045-08-08 | 9045-20-20 |            |
| 9045-10-10 | 9045-24-24 |            |

## 9046

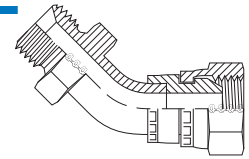
90° FEMALE BSPP (SWIVEL) X MALE BSPP ADJ. ELBOW



|            |            |            |
|------------|------------|------------|
| 9046-04-04 | 9046-08-08 | 9046-16-16 |
| 9046-06-06 | 9046-12-12 |            |

## 9047

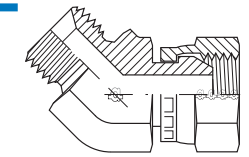
45° MALE BSPP X FEMALE BSPP (SWIVEL) TUBE ELBOW



|            |            |
|------------|------------|
| 9047-04-04 | 9047-12-12 |
| 9047-06-06 | 9047-16-16 |
| 9047-08-08 | 9047-20-20 |
| 9047-10-10 |            |

## 9048

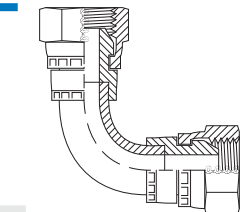
45° MALE BSPP X FEMALE BSPP (SWIVEL) ELBOW



|            |            |            |
|------------|------------|------------|
| 9048-04-04 | 9048-08-08 | 9048-16-16 |
| 9048-06-06 | 9048-12-12 |            |

## 9050

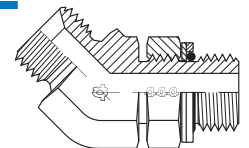
90° FEMALE BSPP (SWIVEL) X FEMALE BSPP (SWIVEL) TUBE ELBOW



|            |            |
|------------|------------|
| 9050-04-04 | 9050-12-12 |
| 9050-06-06 | 9050-16-16 |
| 9050-08-08 | 9050-20-20 |
| 9050-10-10 | 9050-24-24 |

## 9051

45° MALE BSPP X MALE BSPP ADJ. ELBOW

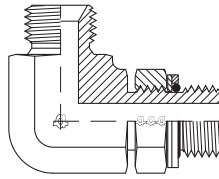


|            |            |
|------------|------------|
| 9051-04-04 | 9051-08-08 |
| 9051-06-04 | 9051-12-08 |
| 9051-06-06 | 9051-12-12 |
| 9051-08-06 | 9051-16-16 |

# STEEL INTERNATIONAL ADAPTERS

## 9052

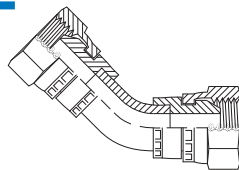
90° MALE BSPP X ADJ. MALE BSPP ELBOW



|            |            |            |
|------------|------------|------------|
| 9052-04-04 | 9052-06-08 | 9052-12-08 |
| 9052-04-06 | 9052-08-06 | 9052-12-12 |
| 9052-06-04 | 9052-08-08 | 9052-16-16 |
| 9052-06-06 | 9052-08-12 | 9052-20-20 |

## 9053

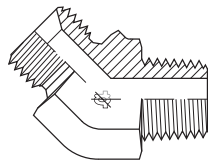
45° FEMALE BSPP (SWIVEL) X FEMALE BSPP (SWIVEL) TUBE ELBOW



|            |            |
|------------|------------|
| 9053-04-04 | 9053-12-12 |
| 9053-06-06 | 9053-16-16 |
| 9053-08-08 | 9053-20-20 |
| 9053-10-10 |            |

## 9054

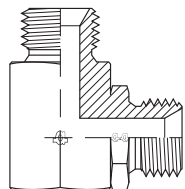
45° MALE BSPP X MALE BSPT ELBOW



|            |            |            |
|------------|------------|------------|
| 9054-04-02 | 9054-06-06 | 9054-16-16 |
| 9054-04-04 | 9054-08-06 |            |
| 9054-04-06 | 9054-08-08 |            |
| 9054-06-04 | 9054-12-12 |            |

## 9055

90° MALE BSPP X MALE BSPP ELBOW

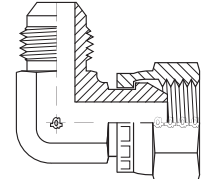


|             |             |            |
|-------------|-------------|------------|
| 9055-02-02* | 9055-10-10* | 9055-20-20 |
| 9055-04-04* | 9055-12-08  | 9055-24-24 |
| 9055-06-04  | 9055-12-10  | 9055-32-32 |
| 9055-06-06* | 9055-12-12* |            |
| 9055-08-06  | 9055-16-12  |            |
| 9055-08-08* | 9055-16-16* |            |

\* FORGED BODY

## 9056

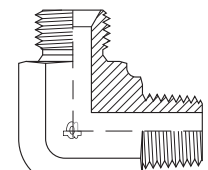
90° MALE JIC X FEMALE BSPP (SWIVEL) ELBOW



|            |            |            |
|------------|------------|------------|
| 9056-04-04 | 9056-08-06 | 9056-12-12 |
| 9056-06-06 | 9056-08-08 | 9056-16-16 |

## 9057

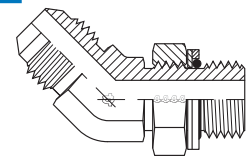
90° MALE BSPP X MALE BSPT ELBOW



|            |            |            |
|------------|------------|------------|
| 9057-02-02 | 9057-06-08 | 9057-16-16 |
| 9057-04-02 | 9057-08-06 |            |
| 9057-04-04 | 9057-08-08 |            |
| 9057-04-06 | 9057-10-10 |            |
| 9057-06-04 | 9057-12-12 |            |
| 9057-06-06 | 9057-12-16 |            |

## 9058

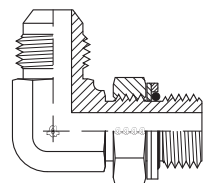
45° MALE JIC X MALE BSPP ADJ. ELBOW



|            |            |            |
|------------|------------|------------|
| 9058-04-02 | 9058-08-06 | 9058-12-12 |
| 9058-04-04 | 9058-08-08 | 9058-16-16 |
| 9058-06-04 | 9058-10-08 |            |
| 9058-06-06 | 9058-12-08 |            |

## 9059

90° MALE JIC X MALE BSPP ADJ. ELBOW



|            |            |            |
|------------|------------|------------|
| 9059-04-02 | 9059-08-04 | 9059-12-12 |
| 9059-04-04 | 9059-08-06 | 9059-12-16 |
| 9059-04-06 | 9059-08-08 | 9059-16-12 |
| 9059-05-04 | 9059-08-12 | 9059-16-16 |
| 9059-05-06 | 9059-10-06 | 9059-16-20 |
| 9059-06-04 | 9059-10-08 | 9059-20-16 |
| 9059-06-06 | 9059-10-12 | 9059-20-20 |
| 9059-06-08 | 9059-12-08 | 9059-24-24 |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

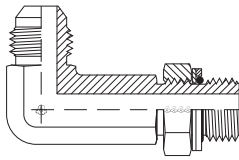
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9059L

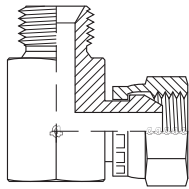
90° MALE JIC X MALE BSPP  
ADJ. LONG ELBOW



- |             |             |
|-------------|-------------|
| 9059L-06-06 | 9059L-08-08 |
| 9059L-08-06 |             |

## 9060

90° MALE BSPP X FEMALE BSPP  
(SWIVEL) ELBOW

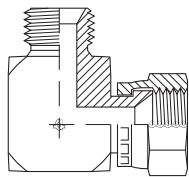


- |             |             |             |
|-------------|-------------|-------------|
| 9060-02-02* | 9060-08-06  | 9060-16-12  |
| 9060-04-04* | 9060-08-08* | 9060-16-16* |
| 9060-04-06  | 9060-10-10  | 9060-20-20  |
| 9060-06-04  | 9060-12-08  | 9060-24-24  |
| 9060-06-06* | 9060-12-12* | 9060-32-32  |
| 9060-06-08  | 9060-12-16  |             |

\* FORGED BODY

## 9061

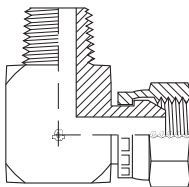
90° MALE BSPP X FEMALE JIC  
(SWIVEL) ELBOW



- |            |            |            |
|------------|------------|------------|
| 9061-04-04 | 9061-08-06 | 9061-12-12 |
| 9061-04-06 | 9061-08-08 |            |
| 9061-06-06 | 9061-08-10 |            |
| 9061-06-08 | 9061-10-10 |            |

## 9062

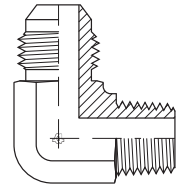
90° MALE BSPT X FEMALE BSPP  
(SWIVEL) ELBOW



- |            |            |
|------------|------------|
| 9062-02-02 | 9062-08-08 |
| 9062-04-04 | 9062-12-12 |
| 9062-06-04 | 9062-16-16 |
| 9062-06-06 |            |

## 9063

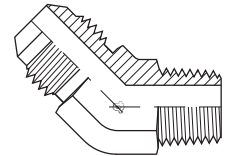
90° MALE JIC X MALE BSPT  
ELBOW



- |            |            |            |
|------------|------------|------------|
| 9063-04-02 | 9063-08-08 | 9063-24-24 |
| 9063-04-04 | 9063-10-08 | 9063-32-32 |
| 9063-05-02 | 9063-12-08 |            |
| 9063-05-04 | 9063-12-12 |            |
| 9063-06-04 | 9063-12-16 |            |
| 9063-06-06 | 9063-16-12 |            |
| 9063-06-08 | 9063-16-16 |            |
| 9063-08-06 | 9063-20-20 |            |

## 9064

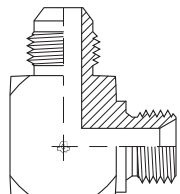
45° MALE JIC X MALE BSPT  
ELBOW



- |            |            |            |
|------------|------------|------------|
| 9064-04-02 | 9064-08-06 | 9064-16-12 |
| 9064-04-04 | 9064-08-08 | 9064-16-16 |
| 9064-06-04 | 9064-10-08 | 9064-20-20 |
| 9064-06-06 | 9064-12-12 |            |

## 9065

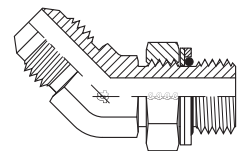
90° MALE JIC X MALE BSPP  
ELBOW



- |            |            |            |
|------------|------------|------------|
| 9065-04-04 | 9065-08-08 | 9065-12-16 |
| 9065-05-04 | 9065-10-08 | 9065-16-16 |
| 9065-06-04 | 9065-10-12 | 9065-20-20 |
| 9065-06-06 | 9065-12-10 |            |
| 9065-08-06 | 9065-12-12 |            |

## 9066

45° MALE JIC X MALE METRIC  
ADJ ELBOW



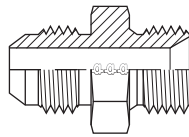
- |            |            |            |
|------------|------------|------------|
| 9066-04-10 | 9066-08-16 | 9066-12-22 |
| 9066-04-12 | 9066-08-18 | 9066-12-27 |
| 9066-06-14 | 9066-10-18 | 9066-16-33 |
| 9066-06-16 | 9066-10-22 |            |



# STEEL INTERNATIONAL ADAPTERS

## 9067

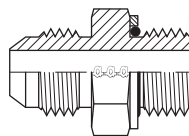
MALE JIC X MALE METRIC



|            |            |                |
|------------|------------|----------------|
| 9067-02-10 | 9067-08-12 | 9067-10-22     |
| 9067-04-12 | 9067-08-14 | 9067-10-26     |
| 9067-04-14 | 9067-08-16 | 9067-12-16     |
| 9067-04-16 | 9067-08-18 | 9067-12-18     |
| 9067-06-12 | 9067-08-20 | 9067-12-24     |
| 9067-06-14 | 9067-08-22 | 9067-12-26     |
| 9067-06-16 | 9067-10-14 | 9067-12-27X1.5 |
| 9067-06-18 | 9067-10-16 |                |
| 9067-06-20 | 9067-10-18 |                |
| 9067-06-22 | 9067-10-20 |                |

## 9068

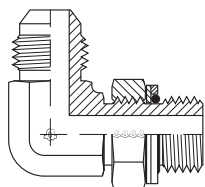
MALE JIC X MALE METRIC C/W OR & RR



|            |            |            |
|------------|------------|------------|
| 9068-04-10 | 9068-08-14 | 9068-16-27 |
| 9068-04-12 | 9068-08-16 | 9068-16-33 |
| 9068-04-14 | 9068-08-18 | 9068-20-33 |
| 9068-05-12 | 9068-08-22 | 9068-20-42 |
| 9068-05-16 | 9068-10-18 | 9068-24-48 |
| 9068-06-12 | 9068-10-20 |            |
| 9068-06-14 | 9068-10-22 |            |
| 9068-06-16 | 9068-12-22 |            |
| 9068-06-18 | 9068-12-26 |            |
| 9068-08-12 | 9068-12-27 |            |

## 9069

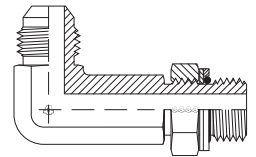
90° MALE JIC X MALE METRIC ADJ. ELBOW



|            |            |                |
|------------|------------|----------------|
| 9069-04-10 | 9069-08-16 | 9069-12-30X1.5 |
| 9069-04-12 | 9069-08-18 | 9069-16-27     |
| 9069-04-14 | 9069-08-20 | 9069-16-33     |
| 9069-05-10 | 9069-08-22 | 9069-20-42     |
| 9069-05-12 | 9069-10-18 | 9069-24-48     |
| 9069-05-14 | 9069-10-20 |                |
| 9069-06-12 | 9069-10-22 |                |
| 9069-06-14 | 9069-12-22 |                |
| 9069-06-16 | 9069-12-26 |                |
| 9069-06-18 | 9069-12-27 |                |

## 9069L

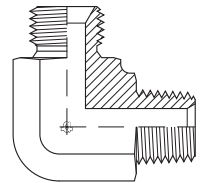
90° MALE JIC X MALE METRIC ADJ. LONG ELBOW



|             |
|-------------|
| 9069L-08-18 |
| 9069L-10-22 |

## 9070

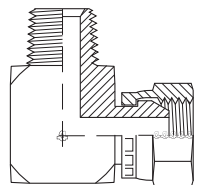
90° MALE BSPP X MALE NPT ELBOW



|            |            |
|------------|------------|
| 9070-02-02 | 9070-12-12 |
| 9070-04-04 | 9070-16-12 |
| 9070-06-06 | 9070-16-16 |
| 9070-08-08 |            |

## 9072

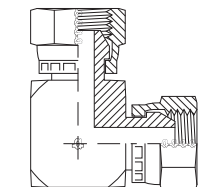
90° MALE NPT X FEMALE BSPP (SWIVEL) ELBOW



|            |            |
|------------|------------|
| 9072-02-02 | 9072-12-12 |
| 9072-04-04 | 9072-16-16 |
| 9072-06-06 | 9072-20-20 |
| 9072-08-08 | 9072-24-24 |

## 9075

90° FEMALE BSPP X FEMALE BSPP (SWIVEL) ELBOW



|            |            |            |
|------------|------------|------------|
| 9075-02-02 | 9075-10-10 | 9075-32-32 |
| 9075-04-04 | 9075-12-12 |            |
| 9075-06-04 | 9075-16-12 |            |
| 9075-06-06 | 9075-16-16 |            |
| 9075-08-06 | 9075-20-20 |            |
| 9075-08-08 | 9075-24-24 |            |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

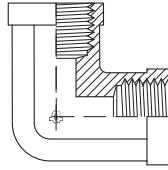
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9076

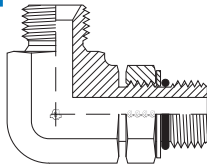
90° FEMALE BSP X FEMALE BSP (SOLID) ELBOW



|            |            |
|------------|------------|
| 9076-04-04 | 9076-16-16 |
| 9076-06-06 | 9076-20-20 |
| 9076-08-08 | 9076-24-24 |
| 9076-12-12 |            |

## 9077

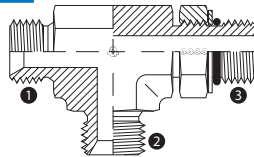
90° MALE BSPP X MALE ORB ADJ. ELBOW



|            |            |
|------------|------------|
| 9077-02-04 | 9077-08-08 |
| 9077-04-06 | 9077-08-10 |
| 9077-06-06 | 9077-12-12 |
| 9077-06-08 | 9077-16-16 |

## 9078

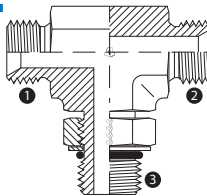
MALE BSPP X MALE ORB ADJ. RUN TEE



|               |               |               |
|---------------|---------------|---------------|
| 9078-02-02-04 | 9078-08-08-10 | 9078-12-12-12 |
| 9078-06-06-08 | 9078-12-12-10 | 9078-16-16-16 |

## 9079

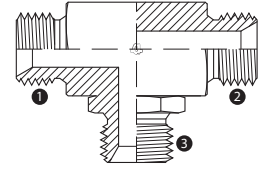
MALE BSPP X MALE ORB ADJ. BRANCH TEE



|               |               |               |
|---------------|---------------|---------------|
| 9079-02-02-04 | 9079-08-08-08 | 9079-12-12-12 |
| 9079-06-06-08 | 9079-08-08-10 | 9079-16-16-16 |

## 9080

MALE BSPP TEE

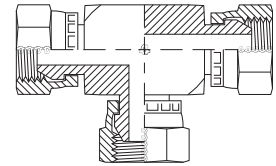


|                |                |               |
|----------------|----------------|---------------|
| 9080-02-02-02  | 9080-08-08-08* | 9080-16-16-08 |
| 9080-04-04-04* | 9080-08-08-12  | 9080-16-16-16 |
| 9080-04-04-06  | 9080-10-10-10  | 9080-20-20-20 |
| 9080-06-06-04  | 9080-12-12-08  | 9080-24-24-24 |
| 9080-06-06-06* | 9080-12-12-12  | 9080-32-32-32 |
| 9080-06-06-08  | 9080-12-12-16  |               |

\* FORGED BODY

## 9085

FEMALE BSPP SWIVEL TEE

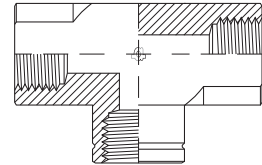


|                |               |               |
|----------------|---------------|---------------|
| 9085-02-02-02  | 9085-10-10-10 | 9085-24-24-24 |
| 9085-04-04-04  | 9085-12-12-12 | 9085-32-32-32 |
| 9085-06-06-06* | 9085-16-16-16 |               |
| 9085-08-08-08* | 9085-20-20-20 |               |

\* FORGED BODY

## 9086

FEMALE BSP SOLID TEE

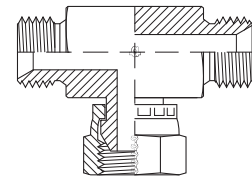


|                |               |
|----------------|---------------|
| 9086-02-02-02* | 9086-10-10-10 |
| 9086-04-04-04* | 9086-12-12-12 |
| 9086-06-06-06* | 9086-16-16-16 |
| 9086-08-08-08* | 9086-20-20-20 |

\* FORGED BODY

## 9087

FEMALE BSPP (SWIVEL) BRANCH TEE



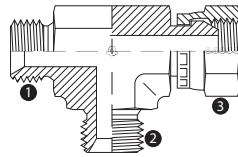
|                |                |               |
|----------------|----------------|---------------|
| 9087-02-02-02  | 9087-10-10-10  | 9087-24-24-24 |
| 9087-04-04-04* | 9087-12-12-12* |               |
| 9087-06-06-06* | 9087-16-16-16  |               |
| 9087-08-08-08* | 9087-20-20-20  |               |

\* FORGED BODY

# STEEL INTERNATIONAL ADAPTERS

## 9090

FEMALE BSPP (SWIVEL)  
RUN TEE

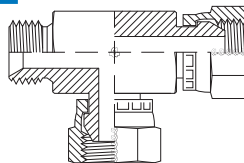


|                |                |                |
|----------------|----------------|----------------|
| 9090-02-02-02  | 9090-06-08-08  | 9090-16-16-16* |
| 9090-04-04-04* | 9090-08-08-08* | 9090-20-20-20* |
| 9090-04-06-06  | 9090-10-10-10* | 9090-24-24-24  |
| 9090-06-04-06  | 9090-12-12-06  |                |
| 9090-06-06-04  | 9090-12-12-08  |                |
| 9090-06-06-06* | 9090-12-12-12* |                |

\* FORGED BODY

## 9095

MALE BSPP (SWIVEL) RUN TEE

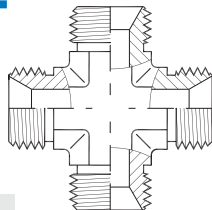


|                |                |
|----------------|----------------|
| 9095-02-02-02  | 9095-10-10-10  |
| 9095-04-04-04* | 9095-12-12-12* |
| 9095-06-06-06* | 9095-16-16-16  |
| 9095-08-08-08* | 9095-20-20-20  |

\* FORGED BODY

## 9096

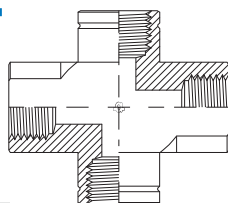
MALE BSPP CROSS



|         |         |
|---------|---------|
| 9096-04 | 9096-16 |
| 9096-06 | 9096-20 |
| 9096-08 | 9096-24 |
| 9096-12 |         |

## 9097

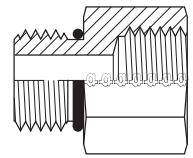
FEMALE BSP CROSS (SOLID)



|         |         |
|---------|---------|
| 9097-04 | 9097-16 |
| 9097-08 | 9097-20 |

## 9120

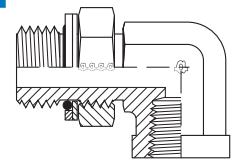
MALE ORB X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 9120-04-04 | 9120-06-06 | 9120-12-08 |
| 9120-06-04 | 9120-08-04 |            |

## 9135

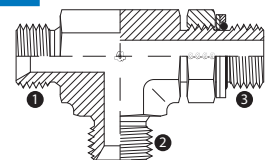
90° MALE BSPP ADJ. X FEMALE  
NPT ELBOW



|            |            |            |
|------------|------------|------------|
| 9135-02-02 | 9135-06-06 | 9135-16-16 |
| 9135-04-02 | 9135-08-06 | 9135-20-20 |
| 9135-04-04 | 9135-08-08 | 9135-24-24 |
| 9135-06-04 | 9135-12-12 |            |

## 9151

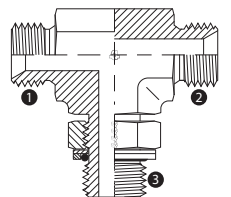
MALE BSPP ADJ. RUN TEE



|               |               |               |
|---------------|---------------|---------------|
| 9151-04-04-04 | 9151-06-06-06 | 9151-08-08-08 |
| 9151-06-06-04 | 9151-08-08-06 | 9151-12-12-12 |

## 9152

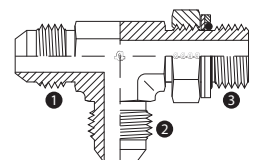
MALE BSPP ADJ. BRANCH TEE



|               |               |               |
|---------------|---------------|---------------|
| 9152-04-04-04 | 9152-06-06-06 | 9152-08-08-08 |
| 9152-06-06-04 | 9152-08-08-06 | 9152-12-12-12 |

## 9158

MALE JIC X MALE BSPP  
RUN TEE



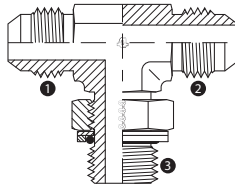
|               |               |               |
|---------------|---------------|---------------|
| 9158-04-04-04 | 9158-08-08-06 | 9158-16-16-16 |
| 9158-05-05-04 | 9158-08-08-08 | 9158-20-20-20 |
| 9158-06-06-04 | 9158-10-10-08 |               |
| 9158-06-06-06 | 9158-12-12-12 |               |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

## 9159

MALE JIC X MALE BSPP  
BRANCH TEE

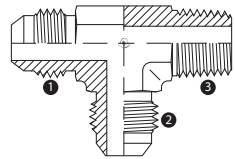


|               |               |               |
|---------------|---------------|---------------|
| 9159-04-04-04 | 9159-08-08-06 | 9159-16-16-16 |
| 9159-05-05-04 | 9159-08-08-08 |               |
| 9159-06-06-04 | 9159-10-10-08 |               |
| 9159-06-06-06 | 9159-12-12-12 |               |

FEATURED

## 9163

MALE JIC X MALE BSPT  
RUN TEE



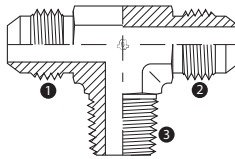
|               |               |               |
|---------------|---------------|---------------|
| 9163-04-04-04 | 9163-08-08-06 | 9163-12-12-12 |
| 9163-06-06-04 | 9163-10-10-08 |               |

STEEL

STAINLESS STEEL

## 9164

MALE JIC X MALE BSPT  
BRANCH TEE

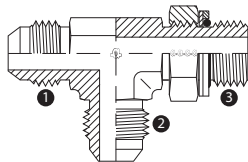


|               |               |
|---------------|---------------|
| 9164-06-06-04 | 9164-12-12-12 |
| 9164-10-10-08 |               |

BRASS

## 9168

MALE JIC X MALE METRIC  
RUN TEE

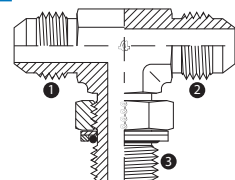


|               |               |               |
|---------------|---------------|---------------|
| 9168-04-04-12 | 9168-08-08-16 | 9168-10-10-22 |
| 9168-06-06-14 | 9168-08-08-18 | 9168-12-12-27 |

MEALLEABLE IRON QUICK REFERENCE

## 9169

MALE JIC X MALE METRIC  
BRANCH TEE

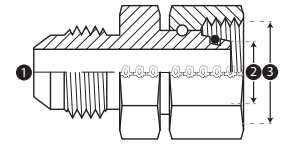


|               |               |
|---------------|---------------|
| 9169-04-04-10 | 9169-08-08-18 |
| 9169-04-04-12 | 9169-10-10-22 |
| 9169-06-06-14 | 9169-12-12-27 |
| 9169-08-08-16 | 9169-16-16-33 |

ABOUT

## 9197

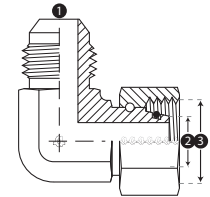
MALE JIC X FEMALE  
METRIC DIN/DKO (SWIVEL)



|                |                |                |
|----------------|----------------|----------------|
| 9197-04-L06-12 | 9197-08-S12-20 | 9197-16-L28-36 |
| 9197-04-L08-14 | 9197-08-S16-24 | 9197-16-S25-36 |
| 9197-04-S06-14 | 9197-10-L15-22 | 9197-20-L35-45 |
| 9197-06-L08-14 | 9197-10-S16-24 | 9197-20-S30-42 |
| 9197-06-L10-16 | 9197-12-L18-26 | 9197-24-L42-52 |
| 9197-06-S08-16 | 9197-12-L22-30 | 9197-24-S38-52 |
| 9197-06-S10-18 | 9197-12-S20-30 |                |
| 9197-08-L12-18 | 9197-16-L22-30 |                |

## 9199

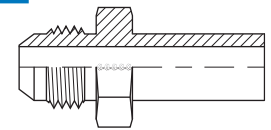
90° MALE JIC X FEMALE METRIC  
DIN/DKO (SWIVEL) ELBOW



|                |                |                |
|----------------|----------------|----------------|
| 9199-04-L06-12 | 9199-08-L12-18 | 9199-16-L22-30 |
| 9199-04-S06-14 | 9199-08-S12-20 | 9199-16-L28-36 |
| 9199-06-L08-14 | 9199-10-L15-22 | 9199-16-S25-36 |
| 9199-06-L10-16 | 9199-10-S16-24 | 9199-20-L35-45 |
| 9199-06-S08-16 | 9199-12-L18-26 | 9199-20-S30-42 |
| 9199-06-S10-18 | 9199-12-S20-30 | 9199-24-L42-52 |

## 9200

MALE JIC X DIN STANDPIPE

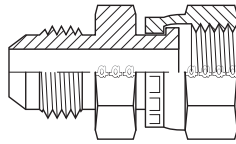


|            |            |            |
|------------|------------|------------|
| 9200-03-04 | 9200-08-14 | 9200-16-28 |
| 9200-04-04 | 9200-08-15 | 9200-16-30 |
| 9200-04-06 | 9200-08-16 | 9200-20-28 |
| 9200-04-08 | 9200-10-16 | 9200-20-35 |
| 9200-04-10 | 9200-10-18 | 9200-20-38 |
| 9200-05-12 | 9200-10-20 | 9200-24-35 |
| 9200-06-08 | 9200-12-16 | 9200-24-38 |
| 9200-06-10 | 9200-12-18 | 9200-24-42 |
| 9200-06-12 | 9200-12-20 | 9200-32-40 |
| 9200-06-14 | 9200-12-22 |            |
| 9200-08-10 | 9200-12-25 |            |
| 9200-08-12 | 9200-16-25 |            |

# STEEL INTERNATIONAL ADAPTERS

## 9210

MALE JIC X FEMALE FLAT-FACE  
BSPP (SWIVEL) HIAB

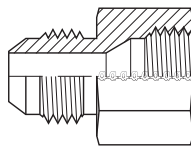


|             |            |            |
|-------------|------------|------------|
| 9210-04-04  | 9210-08-10 | 9210-12-16 |
| 9210-06-04  | 9210-08-12 | 9210-16-12 |
| 9210-06-06  | 9210-10-08 | 9210-16-16 |
| 9210-06-08  | 9210-10-10 |            |
| 9210-08-06  | 9210-10-12 |            |
| 9210-08-08* | 9210-12-12 |            |

\* Fixed

## 9220

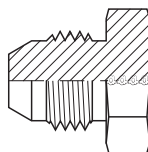
MALE JIC X SOLID FEMALE JIS



|            |            |            |
|------------|------------|------------|
| 9220-04-02 | 9220-08-06 | 9220-16-16 |
| 9220-04-04 | 9220-08-08 | 9220-20-20 |
| 9220-06-04 | 9220-10-10 | 9220-24-24 |
| 9220-06-06 | 9220-12-12 | 9220-32-32 |

## 9221

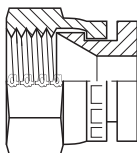
JIS HEX PLUG



|         |         |         |
|---------|---------|---------|
| 9221-02 | 9221-10 | 9221-24 |
| 9221-04 | 9221-12 | 9221-32 |
| 9221-06 | 9221-16 |         |
| 9221-08 | 9221-20 |         |

## 9222

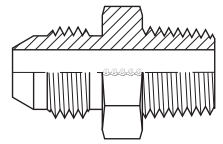
JIS SWIVEL CAP



|         |         |         |
|---------|---------|---------|
| 9222-02 | 9222-10 | 9222-24 |
| 9222-04 | 9222-12 | 9222-32 |
| 9222-06 | 9222-16 |         |
| 9222-08 | 9222-20 |         |

## 9223

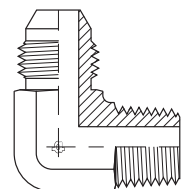
MALE JIS X MALE BSPT



|            |            |            |
|------------|------------|------------|
| 9223-04-04 | 9223-08-06 | 9223-16-16 |
| 9223-04-06 | 9223-08-08 | 9223-20-20 |
| 9223-06-04 | 9223-12-08 | 9223-24-24 |
| 9223-06-06 | 9223-12-12 | 9223-32-32 |

## 9224

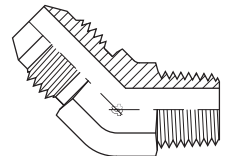
90° MALE JIS X MALE BSPT  
ELBOW



|            |            |            |
|------------|------------|------------|
| 9224-04-02 | 9224-06-06 | 9224-12-12 |
| 9224-04-04 | 9224-08-08 | 9224-16-16 |

## 9225

45° MALE JIS X MALE BSPT  
ELBOW



|            |            |            |
|------------|------------|------------|
| 9225-04-04 | 9225-08-08 | 9225-16-16 |
| 9225-06-06 | 9225-12-12 |            |

## 9226

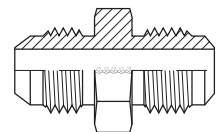
FEMALE JIC X FEMALE JIS  
SWIVEL



|            |
|------------|
| 9226-06-06 |
| 9226-08-08 |

## 9228

MALE JIC X 50° MALE NISSAN  
(METRIC THREAD)



|            |
|------------|
| 9228-06-16 |
|------------|

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

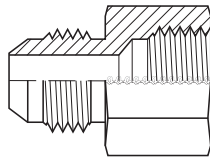
ABOUT

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

## 9229

MALE JIC X 50° FEMALE NISSAN  
(METRIC THREAD)

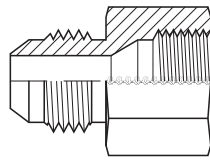


9229-06-16

FEATURED

## 9230

MALE JIC X FEMALE KOMATSU



9230-04-12

9230-08-22

9230-04-14

9230-10-24

9230-06-16

9230-12-30

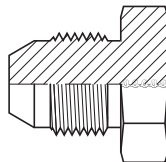
9230-06-18

9230-16-33

STEEL

## 9231

KOMATSU PLUG



9231-14

9231-24

9231-42

9231-16

9231-30

9231-18

9231-33

9231-22

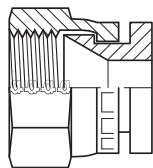
9231-36

STAINLESS STEEL

BRASS

## 9232

KOMATSU SWIVEL CAP



9232-14

9232-24

9232-16

9232-30

9232-18

9232-33

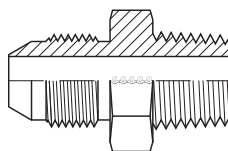
9232-22

9232-42

MEALLEABLE IRON QUICK REFERENCE

## 9233

MALE KOMATSU X MALE BSPT



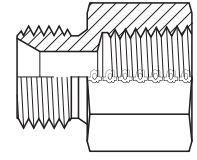
9233-14-02

9233-16-04

ABOUT

## 9234

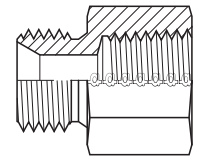
MALE METRIC X FEMALE BSPT



9234-08X1.0-02

## 9235

MALE METRIC X FEMALE NPT



9235-04X.70-02

9235-20-04

9235-06X.75-02

9235-20-06

9235-06X.75-04

9235-20-08

9235-06X1.0-02

9235-22-04

9235-08X1.0-02

9235-22-06

9235-08X1.25-02

9235-22-08

9235-10-02

9235-22-12

9235-10-04

9235-24-12

9235-10-06

9235-26-04

9235-10X1.25-02

9235-26-08

9235-10X1.5-02

9235-26-12

9235-10X1.5-04

9235-27X1.5-12

9235-12-02

9235-27-12

9235-12-04

9235-30X1.5-06

9235-12-06

9235-30X1.5-08

9235-12X1.0-02

9235-30X1.5-12

9235-12X1.0-04

9235-30-12

9235-12X1.25-04

9235-33X1.5-08

9235-14-04

9235-33-16

9235-14-06

9235-36-16

9235-16-04

9235-40-24

9235-16-06

9235-42-16

9235-16-08

9235-42-20

9235-18-04

9235-42X1.5-24

9235-18-06

9235-48-24

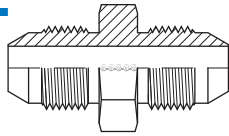
9235-18-08



# STEEL INTERNATIONAL ADAPTERS

## 9236

MALE KOMATSU X MALE  
KOMATSU



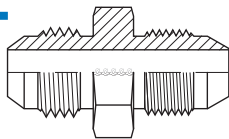
9236-14-14  
9236-18-18

9236-22-22  
9236-24-24

9236-30-30  
9236-33-33

## 9237

MALE JIC X MALE KOMATSU

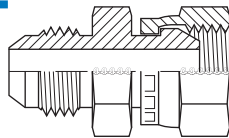


9237-04-14  
9237-06-16  
9237-06-18  
9237-08-22

9237-10-24  
9237-12-30  
9237-16-33

## 9240

MALE JIC X FEMALE BSPP  
(SWIVEL)



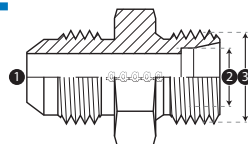
9240-04-02  
9240-04-04  
9240-04-06  
9240-04-08  
9240-05-04  
9240-05-06  
9240-05-08  
9240-06-04  
9240-06-06  
9240-06-08

9240-08-06  
9240-08-08  
9240-08-10  
9240-08-12  
9240-10-06  
9240-10-08  
9240-10-10  
9240-10-12  
9240-12-08  
9240-12-12

9240-12-16  
9240-14-12  
9240-16-12  
9240-16-16  
9240-20-20  
9240-24-24  
9240-32-32

## 9245

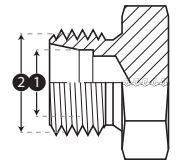
MALE JIC X MALE JSW  
TUBE END



9245-12-25-34  
9245-20-38-48

## 9246

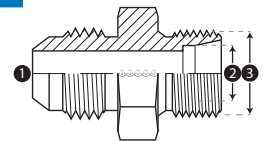
MALE JSW TUBE PLUG



9246-25-34

## 9247

MALE JIC X MALE KOBELCO



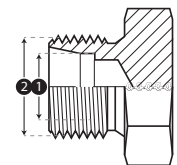
9247-12-22-30  
9247-12-28-36

9247-16-22-30  
9247-16-28-36

9247-16-35-45  
9247-20-35-45

## 9248

KOBELCO TUBE PLUG

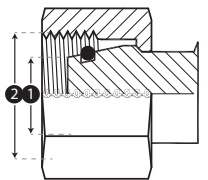


9248-22-30  
9248-28-36

9248-35-45

## 9249

KOBELCO (SWIVEL) CAP

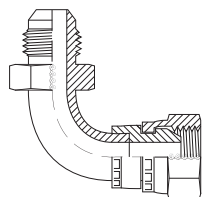


9249-22-30  
9249-28-36

9249-35-45

## 9250

90° MALE JIC X FEMALE BSPP  
SWIVEL ELBOW



9250-04-04  
9250-06-06

9250-08-08  
9250-10-10

9250-12-12  
9250-16-16

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

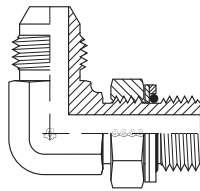
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9259

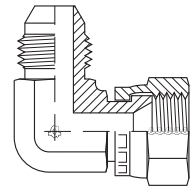
90° MALE JIS X MALE BSPP ADJ. ELBOW



9259-06-06  
9259-08-08

## 9292

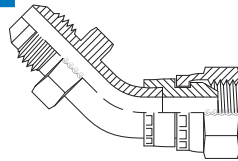
90° MALE JIS X FEMALE JIS (SWIVEL) ELBOW



9292-04-04    9292-08-08  
9292-06-06    9292-12-12

## 9260

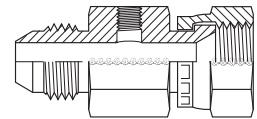
45° MALE JIC X FEMALE BSPP SWIVEL ELBOW



9260-04-04    9260-08-08    9260-16-16  
9260-06-06    9260-12-12

## 9293TP

JIS TEST PORT TEE (SWIVEL)

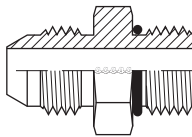


9293TP-04-04    9293TP-08-08  
9293TP-06-06

\* Test Port = Female M10x1.0

## 9277

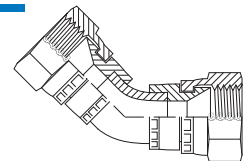
MALE JIS X MALE SAE ORB



9277-04-06    9277-06-04    9277-08-06  
9277-04-08    9277-06-06

## 9294

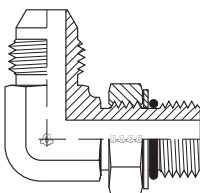
45° MALE JIS X FEMALE JIS SWIVEL ELBOW



9294-04-04    9294-08-08  
9294-06-06

## 9278

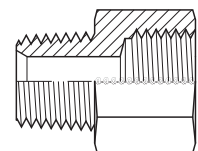
90° MALE JIS X MALE SAE ORB ADJ. ELBOW



9278-04-04  
9278-08-06

## 9325

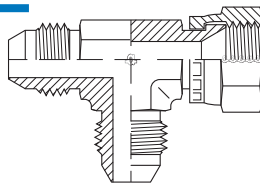
MALE NPT X FEMALE METRIC (SOLID)



|                 |                |                |
|-----------------|----------------|----------------|
| 9325-02-06X1.0  | 9325-04-16X1.5 | 9325-12-20X1.5 |
| 9325-02-08X1.0  | 9325-06-14X1.5 | 9325-12-26X1.5 |
| 9325-02-10X1.0  | 9325-06-16X1.5 | 9325-12-30X1.5 |
| 9325-02-10X1.25 | 9325-06-18X1.5 | 9325-12-30X2.0 |
| 9325-02-10X1.5  | 9325-08-14X1.5 | 9325-16-26X1.5 |
| 9325-02-12X1.0  | 9325-08-18X1.5 | 9325-20-30X1.5 |
| 9325-02-12X1.5  | 9325-08-20X1.5 |                |
| 9325-04-10X1.0  | 9325-08-22X1.5 |                |
| 9325-04-12X1.5  | 9325-08-24X1.5 |                |
| 9325-04-14X1.5  | 9325-12-18X1.5 |                |

## 9291

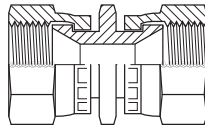
FEMALE JIS RUN TEE



9291-04-04-04    9291-08-08-08  
9291-06-06-06    9291-12-12-12

## 9327

FEMALE KOMATSU X FEMALE KOMATSU (SWIVEL)



9327-14-14  
9327-18-18

9327-22-22  
9327-24-24

9327-30-30

## 9333

30° TO 37° CONVERSION SEAT CONVERTS KOMATSU FEMALE TO GB 74 (CHINESE)



COMING 2020!

9333-12MM  
9333-14MM  
9333-16MM  
9333-18MM

9333-22MM  
9333-24MM  
9333-30MM

## 9333FF

GB FACE SEAL CONVERSION SEAT FOR FEMALE KOMATSU



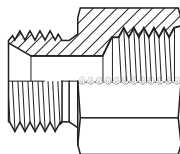
COMING 2020!

9333FF-12MM  
9333FF-14MM  
9333FF-16MM  
9333FF-18MM

9333FF-22MM  
9333FF-24MM  
9333FF-30MM

## 9335

MALE METRIC X FEMALE SAE ORB



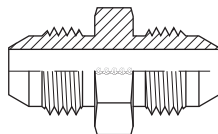
9335-08X1.0-04  
9335-12X1.0-04  
9335-14-06  
9335-16-06

9335-18-08  
9335-22-06  
9335-22-10  
9335-26-12

9335-27-12  
9335-33-16

## 9336

MALE JIS X MALE JIS

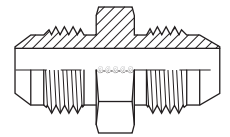


9336-02-02  
9336-04-04  
9336-06-06  
9336-08-08

9336-12-12  
9336-16-16  
9336-20-20

## 9337

MALE JIC X MALE JIS



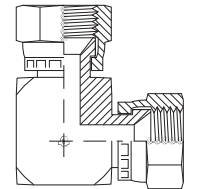
9337-04-02  
9337-04-04

9337-06-06  
9337-08-08

9337-12-12  
9337-16-16

## 9355

90° FEMALE JIC X FEMALE JIC (SWIVEL) ELBOW

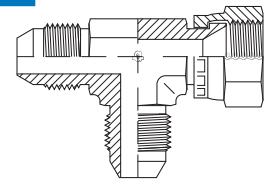


9355-04-04  
9355-05-05  
9355-06-06  
9355-08-08

9355-10-10  
9355-12-12  
9355-16-16

## 9391

FEMALE KOMATSU RUN TEE

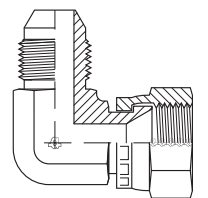


9391-14-14-14  
9391-16-16-16  
9391-18-18-18  
9391-22-22-22

9391-24-24-24  
9391-30-30-30  
9391-33-33-33

## 9392

90° MALE KOMATSU X FEMALE KOMATSU (SWIVEL) ELBOW



9392-14-14  
9392-16-16  
9392-18-18  
9392-22-22

9392-24-24  
9392-30-30  
9392-33-33

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

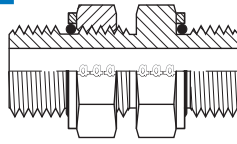
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9474

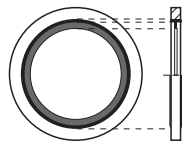
BSPB ADJUSTABLE NIPPLE  
C/W OR & RR



|            |            |
|------------|------------|
| 9474-02-02 | 9474-12-12 |
| 9474-04-04 | 9474-16-16 |
| 9474-06-06 | 9474-20-20 |
| 9474-08-08 | 9474-24-24 |

## 9500

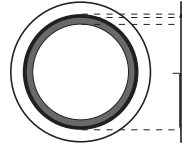
BONDED SEAL FOR BSPB THREAD



|         |         |         |
|---------|---------|---------|
| 9500-02 | 9500-10 | 9500-24 |
| 9500-04 | 9500-12 | 9500-32 |
| 9500-06 | 9500-16 | 9500-40 |
| 9500-08 | 9500-20 | 9500-48 |

## 9500MM

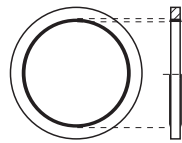
BONDED SEAL FOR METRIC  
THREAD



|           |           |           |
|-----------|-----------|-----------|
| 9500-04MM | 9500-20MM | 9500-42MM |
| 9500-06MM | 9500-22MM | 9500-45MM |
| 9500-08MM | 9500-24MM | 9500-50MM |
| 9500-10MM | 9500-26MM | 9500-52MM |
| 9500-12MM | 9500-27MM |           |
| 9500-14MM | 9500-30MM |           |
| 9500-16MM | 9500-33MM |           |
| 9500-18MM | 9500-36MM |           |

## 9500NSC

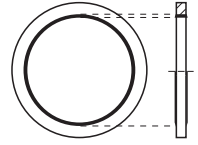
BONDED SEAL FOR BSPB THREAD  
NON-SELF CENTERING



|             |             |
|-------------|-------------|
| 9500-002NSC | 9500-008NSC |
| 9500-004NSC | 9500-010NSC |
| 9500-006NSC | 9500-020NSC |

## 9500MM-NSC

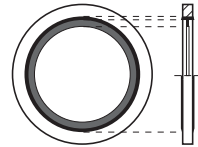
BONDED SEAL FOR METRIC  
THREAD NON-SELF CENTERING



|               |               |
|---------------|---------------|
| 9500-010MMNSC | 9500-018MMNSC |
| 9500-012MMNSC | 9500-020MMNSC |
| 9500-014MMNSC | 9500-022MMNSC |

## 9500V

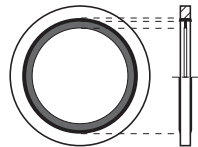
BONDED VITON SEAL FOR BSPB  
THREAD



|          |          |          |
|----------|----------|----------|
| 9500-02V | 9500-10V | 9500-24V |
| 9500-04V | 9500-12V | 9500-32V |
| 9500-06V | 9500-16V | 9500-40V |
| 9500-08V | 9500-20V | 9500-48V |

## 9500MM-V

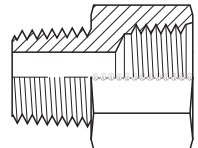
BONDED VITON SEAL FOR  
METRIC THREAD



|            |            |            |
|------------|------------|------------|
| 9500-10MMV | 9500-18MMV | 9500-26MMV |
| 9500-12MMV | 9500-20MMV |            |
| 9500-14MMV | 9500-22MMV |            |
| 9500-16MMV | 9500-24MMV |            |

## 9536

MALE BSPT X FEMALE SAE ORB

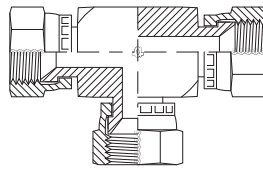


|            |            |
|------------|------------|
| 9536-02-04 | 9536-08-10 |
| 9536-04-06 | 9536-12-12 |
| 9536-06-08 | 9536-16-16 |
| 9536-08-08 |            |

# STEEL INTERNATIONAL ADAPTERS

## 9555

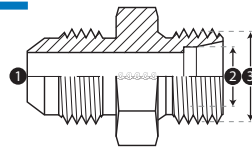
FEMALE JIC (SWIVEL) TEE



|               |               |
|---------------|---------------|
| 9555-04-04-04 | 9555-10-10-10 |
| 9555-05-05-05 | 9555-12-12-12 |
| 9555-06-06-06 | 9555-16-16-16 |
| 9555-08-08-08 | 9555-20-20-20 |

## 9605

MALE JIC X MALE METRIC DIN (EXTRA LIGHT AND LIGHT DUTY)

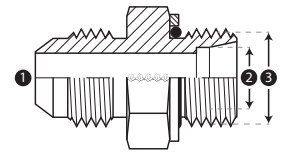


|                  |                    |
|------------------|--------------------|
| 9605-04-06X1.0*  | 9605-08-L12-18     |
| 9605-04-08X1.0*  | 9605-08-L15-22     |
| 9605-04-08X1.25* | 9605-10-25X1.5*    |
| 9605-04-10X1.25* | 9605-10-L12-18     |
| 9605-04-10X1.5*  | 9605-10-L15-22     |
| 9605-04-12X1.0*  | 9605-10-L18-26     |
| 9605-04-L06-12   | 9605-12-25X1.5*    |
| 9605-04-L08-14   | 9605-12-30X1.5*    |
| 9605-04-L10-16   | 9605-12-L15-22     |
| 9605-04-LL06-10  | 9605-12-L18-24X1.5 |
| 9605-04-LL08-12  | 9605-12-L18-26     |
| 9605-05-12X1.0*  | 9605-12-L22-30     |
| 9605-05-12X1.25* | 9605-12-L22-30X1.5 |
| 9605-06-10X1.5*  | 9605-16-L18-26     |
| 9605-06-12X1.25* | 9605-16-L22-30X1.5 |
| 9605-06-12X1.75  | 9605-16-L28-36     |
| 9605-06-L08-14   | 9605-20-33X2.0*    |
| 9605-06-L10-16   | 9605-20-50X1.5*    |
| 9605-06-L12-18   | 9605-20-L27-38X1.5 |
| 9605-06-L15-22   | 9605-20-L35-45     |
| 9605-06-LL06-10  | 9605-24-L42-52     |
| 9605-06-LL08-12  |                    |
| 9605-08-12X1.25* |                    |
| 9605-08-L10-16   |                    |

\* PORT ONLY

## 9605S

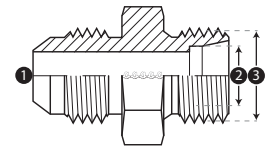
MALE JIC X MALE METRIC DIN (LIGHT DUTY) C/W OR & RR



|                  |                 |
|------------------|-----------------|
| 9605S-04-L06-12  | 9605S-08-L15-22 |
| 9605S-04-L08-14  | 9605S-10-L15-22 |
| 9605S-04-LL06-10 | 9605S-10-L18-26 |
| 9605S-04-LL08-12 | 9605S-12-L15-22 |
| 9605S-06-L08-14  | 9605S-12-L18-26 |
| 9605S-06-L10-16  | 9605S-12-L22-30 |
| 9605S-06-L12-18  | 9605S-16-L28-36 |
| 9605S-06-LL08-12 | 9605S-20-L35-45 |
| 9605S-08-L10-16  | 9605S-24-L42-52 |
| 9605S-08-L12-18  |                 |

## 9606

MALE JIC X MALE METRIC DIN (HEAVY DUTY)



|                |                |
|----------------|----------------|
| 9606-04-S06-14 | 9606-10-S14-22 |
| 9606-04-S08-16 | 9606-10-S16-24 |
| 9606-04-S10-18 | 9606-12-S16-24 |
| 9606-06-S08-16 | 9606-12-S20-30 |
| 9606-06-S10-18 | 9606-12-S25-36 |
| 9606-06-S12-20 | 9606-16-S20-30 |
| 9606-06-S14-22 | 9606-16-S25-36 |
| 9606-08-S10-18 | 9606-16-S30-42 |
| 9606-08-S12-20 | 9606-20-S30-42 |
| 9606-08-S14-22 | 9606-20-S38-52 |
| 9606-08-S16-24 | 9606-24-S38-52 |
| 9606-10-S12-20 |                |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

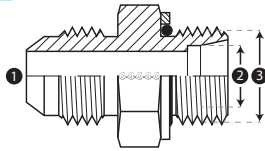
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 9606S

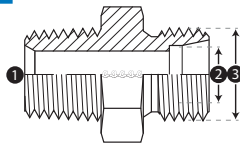
MALE JIC X MALE METRIC  
DIN (HEAVY DUTY)  
C/W OR & RR



|                 |                 |
|-----------------|-----------------|
| 9606S-04-S06-14 | 9606S-12-S16-24 |
| 9606S-04-S08-16 | 9606S-12-S20-30 |
| 9606S-06-S08-16 | 9606S-12-S25-36 |
| 9606S-06-S10-18 | 9606S-16-S20-30 |
| 9606S-06-S12-20 | 9606S-16-S25-36 |
| 9606S-06-S14-22 | 9606S-16-S30-42 |
| 9606S-08-S10-18 | 9606S-20-S30-42 |
| 9606S-08-S12-20 | 9606S-20-S38-52 |
| 9606S-08-S16-24 | 9606S-24-S38-52 |
| 9606S-10-S12-20 |                 |
| 9606S-10-S14-22 |                 |
| 9606S-10-S16-24 |                 |

## 9607

MALE NPT X  
MALE DIN METRIC

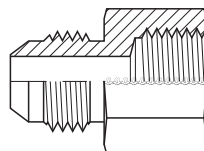


|                  |                 |
|------------------|-----------------|
| 9607-02-12*      | 9607-08-16*     |
| 9607-02-LL06-10  | 9607-08-L12-18  |
| 9607-04-08X1.25* | 9607-08-L15-22  |
| 9607-04-10X1.0*  | 9607-08-S12-20  |
| 9607-04-12X1.25* | 9607-16-30*     |
| 9607-04-14*      | 9607-24-38X1.5* |
| 9607-06-12X1.25* | 9607-24-S30-42  |
| 9607-06-18*      |                 |
| 9607-06-L12-18   |                 |
| 9607-08-12X1.25* |                 |

\* PORT ONLY

## 9622

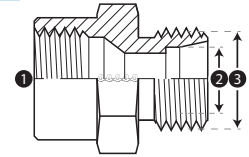
MALE JIC X FEMALE METRIC  
(SOLID)



|                |                |
|----------------|----------------|
| 9622-04-06X1.0 | 9622-04-10X1.0 |
| 9622-04-08X1.0 |                |

## 9624

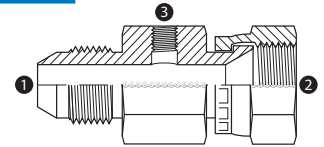
FEMALE JIC X MALE METRIC  
DIN (LIGHT & HEAVY DUTY)



|                |                |                |
|----------------|----------------|----------------|
| 9624-04-L06-12 | 9624-08-S12-20 | 9624-20-S30-42 |
| 9624-04-S06-14 | 9624-08-S14-22 | 9624-24-L35-45 |
| 9624-06-L08-14 | 9624-08-S16-24 | 9624-24-L42-52 |
| 9624-06-L10-16 | 9624-12-L18-26 | 9624-24-S38-52 |
| 9624-06-S08-16 | 9624-12-L22-30 |                |
| 9624-06-S10-18 | 9624-12-S20-30 |                |
| 9624-08-L12-18 | 9624-16-L28-36 |                |
| 9624-08-L15-22 | 9624-16-S25-36 |                |

## 9634TP

KOMATSU TEST PORT TEE

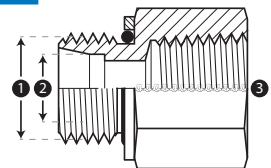


|                  |                 |                 |
|------------------|-----------------|-----------------|
| 9634TP-14-14-02* | 9634TP-22-22-06 | 9634TP-30-30-06 |
| 9634TP-18-18-04  | 9634TP-24-24-06 | 9634TP-33-33-08 |

\* TEST PORT IS NPT, ALL OTHERS ARE ORB

## 9635S

MALE METRIC DIN (LIGHT  
DUTY) C/W OR & RR X  
FEMALE NPT



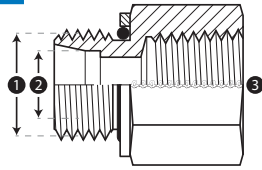
|                 |                     |
|-----------------|---------------------|
| 9635S-12-L06-04 | 9635S-18-L12-06     |
| 9635S-12-L06-06 | 9635S-18-L12-08     |
| 9635S-14-L08-04 | 9635S-22-L15-06     |
| 9635S-14-L08-06 | 9635S-22-L15-08     |
| 9635S-16-L10-04 | 9635S-22-L15-12     |
| 9635S-16-L10-06 | 9635S-26-L18-12     |
| 9635S-16-L10-08 | 9635S-30-L22-12     |
| 9635S-18-L12-04 | 9635S-30X1.5-L22-12 |



# STEEL INTERNATIONAL ADAPTERS

## 9636S

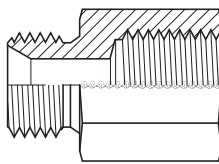
MALE METRIC DIN (HEAVY DUTY) C/W OR & RR X FEMALE NPT



- |                 |                 |
|-----------------|-----------------|
| 9636S-14-S06-06 | 9636S-42-S30-20 |
| 9636S-20-S12-04 |                 |
| 9636S-24-S16-12 |                 |
| 9636S-42-S30-16 |                 |

## 9638

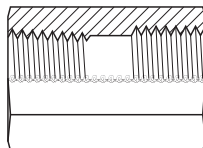
MALE METRIC X FEMALE METRIC BUSHING



- |                    |                    |
|--------------------|--------------------|
| 9638-08X1.0-06X1.0 | 9638-22X1.5-14X1.5 |
| 9638-10X1.0-08X1.0 | 9638-22X1.5-18X1.5 |
| 9638-14X1.5-10X1.0 | 9638-24X1.5-20X1.5 |
| 9638-16X1.5-12X1.5 | 9638-26X1.5-22X1.5 |
| 9638-16X1.5-22X1.5 | 9638-27X2.0-18X1.5 |
| 9638-18X1.5-10X1.0 | 9638-30X2.0-26X1.5 |
| 9638-18X1.5-14X1.5 | 9638-33X2.0-14X1.5 |
| 9638-18X1.5-16X1.5 | 9638-36X2.0-30X2.0 |
| 9638-18X1.5-27X2.0 | 9638-42X2.0-14X1.5 |
| 9638-20X1.5-16X1.5 | 9638-48X2.0-42X2.0 |

## 9643

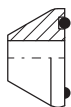
FEMALE NPT X FEMALE METRIC (SOLID)



- |                |                |
|----------------|----------------|
| 9643-02-06X1.0 | 9643-04-14X1.5 |
| 9643-02-08X1.0 | 9643-04-16X1.5 |
| 9643-02-10X1.0 |                |
| 9643-04-12X1.5 |                |

## 9777

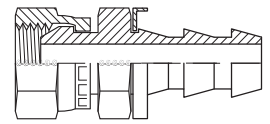
BSPP FLAT FACE CONVERSION ADAPTER HIAB



- |         |         |         |
|---------|---------|---------|
| 9777-04 | 9777-08 | 9777-12 |
| 9777-06 | 9777-10 | 9777-16 |

## 9900

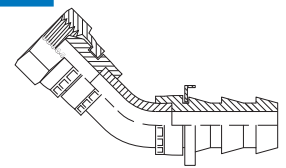
FEMALE BSPP (SWIVEL) X HOSE BARB



- |            |            |            |
|------------|------------|------------|
| 9900-04-04 | 9900-08-08 | 9900-12-12 |
| 9900-06-06 | 9900-10-10 | 9900-16-16 |

## 9905

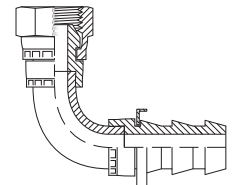
45° FEMALE BSPP (SWIVEL) X HOSE BARB ELBOW



- |            |            |            |
|------------|------------|------------|
| 9905-04-04 | 9905-08-08 | 9905-12-12 |
| 9905-06-06 | 9905-10-10 | 9905-16-16 |

## 9910

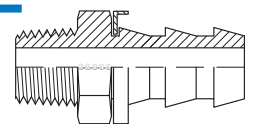
90° FEMALE BSPP (SWIVEL) X HOSE BARB ELBOW



- |            |            |            |
|------------|------------|------------|
| 9910-04-04 | 9910-08-08 | 9910-12-12 |
| 9910-06-06 | 9910-10-10 | 9910-16-16 |

## 9915

MALE BSPT X HOSE BARB



- |            |            |
|------------|------------|
| 9915-04-04 | 9915-08-08 |
| 9915-06-06 | 9915-12-12 |
| 9915-06-08 | 9915-16-16 |
| 9915-08-06 | 9915-20-20 |

# STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

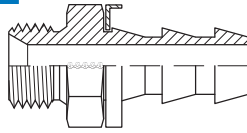
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## 9920

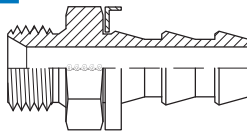
MALE BSPP X HOSE BARB



- |            |            |            |
|------------|------------|------------|
| 9920-04-04 | 9920-08-08 | 9920-16-16 |
| 9920-06-06 | 9920-12-12 |            |

## 9921

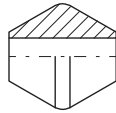
MALE BSPP X HOSE BARB  
(NEEDS CLAMP)



- |            |            |            |
|------------|------------|------------|
| 9921-04-06 | 9921-12-10 | 9921-24-28 |
| 9921-06-08 | 9921-12-16 | 9921-24-32 |
| 9921-08-06 | 9921-16-16 | 9921-32-32 |
| 9921-08-08 | 9921-16-20 |            |
| 9921-08-10 | 9921-20-24 |            |
| 9921-12-08 | 9921-24-24 |            |

## 9999

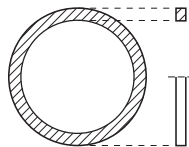
BSPP TO JIS CONVERSION SEAT



- |         |         |         |
|---------|---------|---------|
| 9999-02 | 9999-10 | 9999-24 |
| 9999-04 | 9999-12 |         |
| 9999-06 | 9999-16 |         |
| 9999-08 | 9999-20 |         |

## CWM

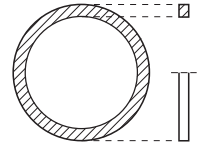
COPPER WASHER METRIC



- |        |        |        |
|--------|--------|--------|
| CWM-08 | CWM-16 | CWM-30 |
| CWM-10 | CWM-18 |        |
| CWM-12 | CWM-20 |        |
| CWM-14 | CWM-22 |        |

## CWR

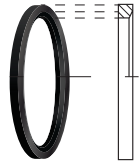
COPPER WASHER BSPP



- |          |            |            |
|----------|------------|------------|
| CWR-1/8" | CWR-5/8"   | CWR-1-1/2" |
| CWR-1/4" | CWR-3/4"   |            |
| CWR-3/8" | CWR-1"     |            |
| CWR-1/2" | CWR-1-1/4" |            |

## ESB

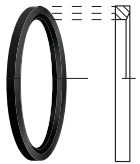
BSPP ELASTOMERIC SEAL



- |        |        |        |
|--------|--------|--------|
| ESB-02 | ESB-10 | ESB-24 |
| ESB-04 | ESB-12 | ESB-32 |
| ESB-06 | ESB-16 |        |
| ESB-08 | ESB-20 |        |

## ESM

METRIC ELASTOMERIC SEAL



- |        |        |
|--------|--------|
| ESM-10 | ESM-20 |
| ESM-12 | ESM-22 |
| ESM-16 |        |
| ESM-18 |        |

## OR

O-RING FOR BSPP THREAD



- |       |       |
|-------|-------|
| OR-02 | OR-12 |
| OR-04 | OR-16 |
| OR-06 | OR-20 |
| OR-08 | OR-24 |

# STEEL INTERNATIONAL ADAPTERS

## OR-MM

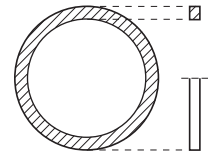
O-RING FOR METRIC THREAD



- |         |         |         |
|---------|---------|---------|
| OR-10MM | OR-18MM | OR-27MM |
| OR-12MM | OR-20MM | OR-30MM |
| OR-14MM | OR-22MM | OR-33MM |
| OR-16MM | OR-26MM | OR-42MM |

## RR-MM

RETAINING RING METRIC



- |         |         |         |
|---------|---------|---------|
| RR-10MM | RR-22MM | RR-42MM |
| RR-12MM | RR-24MM | RR-48MM |
| RR-14MM | RR-26MM |         |
| RR-16MM | RR-27MM |         |
| RR-18MM | RR-30MM |         |
| RR-20MM | RR-33MM |         |

## ORFS

O-RING FOR O-RING FACE SEAL



- |         |         |
|---------|---------|
| ORFS-04 | ORFS-12 |
| ORFS-06 | ORFS-16 |
| ORFS-08 | ORFS-20 |
| ORFS-10 | ORFS-24 |

## SAE ORB O-RING

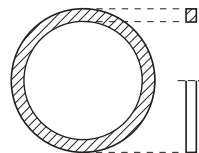
O-RING FOR SAE ORB THREAD



- |       |       |       |
|-------|-------|-------|
| 3-904 | 3-910 | 3-924 |
| 3-905 | 3-912 | 3-932 |
| 3-906 | 3-916 |       |
| 3-908 | 3-920 |       |

## RR

RETAINING RING BSPP



- |       |       |
|-------|-------|
| RR-02 | RR-12 |
| RR-04 | RR-16 |
| RR-06 | RR-20 |
| RR-08 | RR-24 |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

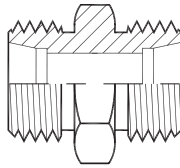
ABOUT

# STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

## SS5000L

STAINLESS DIN UNION LIGHT DUTY

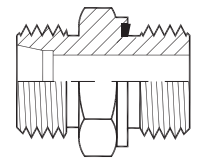


|            |            |
|------------|------------|
| SS5000L-06 | SS5000L-15 |
| SS5000L-08 | SS5000L-18 |
| SS5000L-10 | SS5000L-22 |
| SS5000L-12 | SS5000L-28 |

FEATURED

## SS5002L

STAINLESS DIN LIGHT DUTY X MALE BSPP ES SEAL

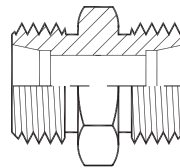


|               |               |               |
|---------------|---------------|---------------|
| SS5002L-06-02 | SS5002L-10-08 | SS5002L-18-08 |
| SS5002L-06-04 | SS5002L-12-04 | SS5002L-18-12 |
| SS5002L-08-02 | SS5002L-12-06 | SS5002L-22-12 |
| SS5002L-08-04 | SS5002L-12-08 | SS5002L-28-16 |
| SS5002L-10-04 | SS5002L-15-06 | SS5002L-35-20 |
| SS5002L-10-06 | SS5002L-15-08 |               |

STEEL

## SS5000S

STAINLESS DIN UNION HEAVY DUTY

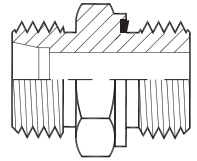


|            |            |
|------------|------------|
| SS5000S-06 | SS5000S-14 |
| SS5000S-08 | SS5000S-16 |
| SS5000S-10 | SS5000S-20 |
| SS5000S-12 | SS5000S-25 |

STAINLESS STEEL

## SS5002S

STAINLESS DIN HEAVY DUTY X MALE BSPP ES SEAL

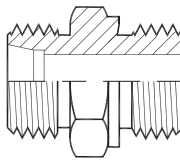


|               |               |               |
|---------------|---------------|---------------|
| SS5002S-06-04 | SS5002S-12-04 | SS5002S-16-12 |
| SS5002S-08-04 | SS5002S-12-06 | SS5002S-20-08 |
| SS5002S-08-06 | SS5002S-12-08 | SS5002S-20-12 |
| SS5002S-10-04 | SS5002S-14-08 | SS5002S-25-12 |
| SS5002S-10-06 | SS5002S-16-06 | SS5002S-25-16 |
| SS5002S-10-08 | SS5002S-16-08 | SS5002S-30-20 |

BRASS

## SS5001L

STAINLESS DIN LIGHT DUTY X MALE BSPP SHOULDER SEAL (FORM B)

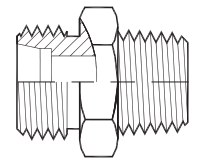


|               |               |               |
|---------------|---------------|---------------|
| SS5001L-06-02 | SS5001L-10-08 | SS5001L-18-08 |
| SS5001L-06-04 | SS5001L-12-04 | SS5001L-18-12 |
| SS5001L-08-02 | SS5001L-12-06 | SS5001L-22-12 |
| SS5001L-08-04 | SS5001L-12-08 | SS5001L-28-16 |
| SS5001L-10-04 | SS5001L-15-06 |               |
| SS5001L-10-06 | SS5001L-15-08 |               |

MEALLEABLE IRON

## SS5007L

STAINLESS DIN LIGHT DUTY X MALE NPT

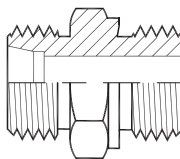


|               |               |               |
|---------------|---------------|---------------|
| SS5007L-06-02 | SS5007L-10-06 | SS5007L-15-08 |
| SS5007L-06-04 | SS5007L-12-04 | SS5007L-18-08 |
| SS5007L-08-04 | SS5007L-12-06 | SS5007L-22-12 |
| SS5007L-10-04 | SS5007L-12-08 | SS5007L-28-16 |

QUICK REFERENCE

## SS5001S

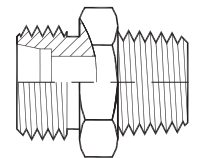
STAINLESS DIN HEAVY DUTY X MALE BSPP SHOULDER SEAL (FORM B)



|               |               |               |
|---------------|---------------|---------------|
| SS5001S-06-04 | SS5001S-12-04 | SS5001S-16-12 |
| SS5001S-08-04 | SS5001S-12-06 | SS5001S-20-08 |
| SS5001S-08-06 | SS5001S-12-08 | SS5001S-20-12 |
| SS5001S-10-04 | SS5001S-14-08 | SS5001S-25-12 |
| SS5001S-10-06 | SS5001S-16-06 | SS5001S-25-16 |
| SS5001S-10-08 | SS5001S-16-08 |               |

## SS5007S

STAINLESS DIN HEAVY DUTY X MALE NPT



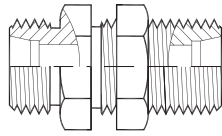
|               |               |               |
|---------------|---------------|---------------|
| SS5007S-06-04 | SS5007S-12-04 | SS5007S-16-08 |
| SS5007S-08-04 | SS5007S-12-06 | SS5007S-20-12 |
| SS5007S-10-04 | SS5007S-12-08 | SS5007S-25-16 |
| SS5007S-10-06 | SS5007S-14-08 | SS5007S-30-20 |

ABOUT

# STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## SS5040L

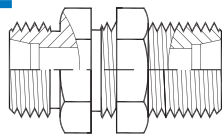
STAINLESS DIN BULKHEAD UNION LIGHT DUTY



|            |            |
|------------|------------|
| SS5040L-06 | SS5040L-15 |
| SS5040L-08 | SS5040L-18 |
| SS5040L-10 | SS5040L-22 |
| SS5040L-12 | SS5040L-28 |

## SS5040S

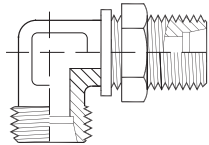
STAINLESS DIN BULKHEAD UNION HEAVY DUTY



|            |            |
|------------|------------|
| SS5040S-06 | SS5040S-14 |
| SS5040S-08 | SS5040S-16 |
| SS5040S-10 | SS5040S-20 |
| SS5040S-12 | SS5040S-25 |

## SS5042L

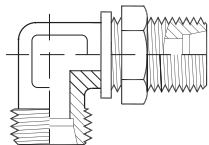
STAINLESS 90° DIN LIGHT DUTY BULKHEAD UNION



|            |            |
|------------|------------|
| SS5042L-06 | SS5042L-15 |
| SS5042L-08 | SS5042L-18 |
| SS5042L-10 | SS5042L-22 |
| SS5042L-12 | SS5042L-28 |

## SS5042S

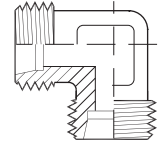
STAINLESS 90° DIN HEAVY DUTY BULKHEAD UNION



|            |            |
|------------|------------|
| SS5042S-06 | SS5042S-14 |
| SS5042S-08 | SS5042S-16 |
| SS5042S-10 | SS5042S-20 |
| SS5042S-12 | SS5042S-25 |

## SS5055L

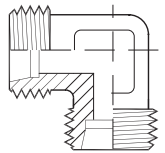
STAINLESS 90° DIN UNION LIGHT DUTY ELBOW



|            |            |
|------------|------------|
| SS5055L-06 | SS5055L-15 |
| SS5055L-08 | SS5055L-18 |
| SS5055L-10 | SS5055L-22 |
| SS5055L-12 | SS5055L-28 |

## 5055S

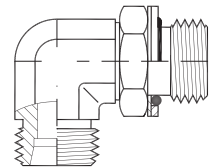
STAINLESS 90° DIN UNION HEAVY DUTY ELBOW



|            |            |
|------------|------------|
| SS5055S-06 | SS5055S-14 |
| SS5055S-08 | SS5055S-16 |
| SS5055S-10 | SS5055S-20 |
| SS5055S-12 | SS5055S-25 |

## SS5059L

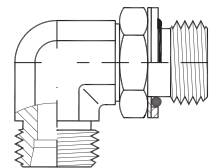
STAINLESS 90° DIN LIGHT DUTY X MALE BSPP ADJUSTABLE ELBOW



|               |               |
|---------------|---------------|
| SS5059L-06-02 | SS5059L-15-08 |
| SS5059L-08-04 | SS5059L-18-08 |
| SS5059L-10-04 | SS5059L-22-12 |
| SS5059L-12-06 | SS5059L-28-16 |

## SS5059S

STAINLESS 90° DIN HEAVY DUTY X MALE BSPP ADJUSTABLE ELBOW



|               |               |
|---------------|---------------|
| SS5059S-06-04 | SS5059S-16-08 |
| SS5059S-08-04 | SS5059S-20-12 |
| SS5059S-10-06 | SS5059S-25-16 |
| SS5059S-12-06 |               |

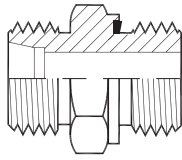
To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

## SS5068L

STAINLESS DIN LIGHT DUTY X  
MALE METRIC ES SEAL



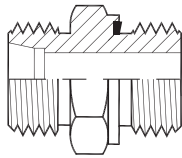
- |               |               |               |
|---------------|---------------|---------------|
| SS5068L-06-10 | SS5068L-12-18 | SS5068L-22-26 |
| SS5068L-08-12 | SS5068L-12-22 | SS5068L-28-33 |
| SS5068L-10-14 | SS5068L-15-18 |               |
| SS5068L-10-18 | SS5068L-15-22 |               |
| SS5068L-10-22 | SS5068L-18-18 |               |
| SS5068L-12-16 | SS5068L-18-22 |               |

FEATURED

STEEL

## SS5068S

STAINLESS DIN HEAVY DUTY X  
MALE METRIC ES SEAL



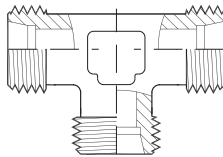
- |               |               |
|---------------|---------------|
| SS5068S-06-12 | SS5068S-14-20 |
| SS5068S-08-14 | SS5068S-16-22 |
| SS5068S-10-16 | SS5068S-20-27 |
| SS5068S-12-18 | SS5068S-25-33 |

STAINLESS STEEL

BRASS

## SS5080L

STAINLESS DIN UNION TEE  
LIGHT DUTY



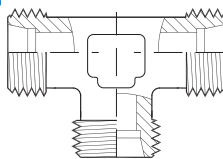
- |            |            |
|------------|------------|
| SS5080L-06 | SS5080L-15 |
| SS5080L-08 | SS5080L-18 |
| SS5080L-10 | SS5080L-22 |
| SS5080L-12 | SS5080L-28 |

MEALLEABLE IRON

QUICK REFERENCE

## SS5080S

STAINLESS DIN UNION TEE  
HEAVY DUTY

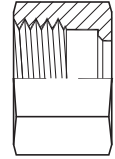


- |            |            |            |
|------------|------------|------------|
| SS5080S-06 | SS5080S-14 | SS5080S-30 |
| SS5080S-08 | SS5080S-16 |            |
| SS5080S-10 | SS5080S-20 |            |
| SS5080S-12 | SS5080S-25 |            |

ABOUT

## SS5201L

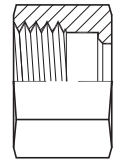
STAINLESS DIN LIGHT DUTY  
TUBE NUT



- |            |            |            |
|------------|------------|------------|
| SS5201L-06 | SS5201L-15 | SS5201L-35 |
| SS5201L-08 | SS5201L-18 | SS5201L-42 |
| SS5201L-10 | SS5201L-22 |            |
| SS5201L-12 | SS5201L-28 |            |

## SS5201S

STAINLESS DIN HEAVY DUTY  
TUBE NUT



- |            |            |            |
|------------|------------|------------|
| SS5201S-06 | SS5201S-14 | SS5201S-30 |
| SS5201S-08 | SS5201S-16 | SS5201S-38 |
| SS5201S-10 | SS5201S-20 |            |
| SS5201S-12 | SS5201S-25 |            |

## SS5202

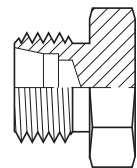
STAINLESS DIN 2353 CUTTING  
RING



- |           |           |           |
|-----------|-----------|-----------|
| SS5202-06 | SS5202-16 | SS5202-30 |
| SS5202-08 | SS5202-18 | SS5202-35 |
| SS5202-10 | SS5202-20 | SS5202-38 |
| SS5202-12 | SS5202-22 | SS5202-42 |
| SS5202-14 | SS5202-25 |           |
| SS5202-15 | SS5202-28 |           |

## SS5203L

STAINLESS DIN LIGHT DUTY  
TUBE PLUG



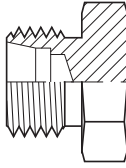
- |            |            |            |
|------------|------------|------------|
| SS5203L-06 | SS5203L-15 | SS5203L-35 |
| SS5203L-08 | SS5203L-18 | SS5203L-42 |
| SS5203L-10 | SS5203L-22 |            |
| SS5203L-12 | SS5203L-28 |            |



# STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

## SS5203S

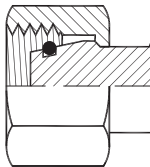
STAINLESS DIN HEAVY DUTY  
TUBE PLUG



|            |            |
|------------|------------|
| SS5203S-06 | SS5203S-14 |
| SS5203S-08 | SS5203S-16 |
| SS5203S-10 | SS5203S-20 |
| SS5203S-12 | SS5203S-25 |

## SS5204L

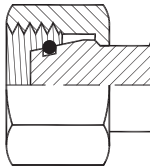
STAINLESS DIN LIGHT DUTY  
TUBE CAP



|            |            |            |
|------------|------------|------------|
| SS5204L-06 | SS5204L-15 | SS5204L-35 |
| SS5204L-08 | SS5204L-18 |            |
| SS5204L-10 | SS5204L-22 |            |
| SS5204L-12 | SS5204L-28 |            |

## SS5204S

STAINLESS DIN HEAVY DUTY  
TUBE CAP



|            |            |            |
|------------|------------|------------|
| SS5204S-06 | SS5204S-14 | SS5204S-30 |
| SS5204S-08 | SS5204S-16 | SS5204S-38 |
| SS5204S-10 | SS5204S-20 |            |
| SS5204S-12 | SS5204S-25 |            |

## SS5204P

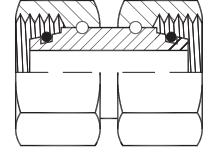
STAINLESS DIN BLANKING PLUG  
(REQUIRES SS5201 TUBE  
NUT TO FORM A CAP)



|            |            |            |
|------------|------------|------------|
| SS5204P-06 | SS5204P-16 | SS5204P-30 |
| SS5204P-08 | SS5204P-18 | SS5204P-35 |
| SS5204P-10 | SS5204P-20 | SS5204P-38 |
| SS5204P-12 | SS5204P-22 |            |
| SS5204P-14 | SS5204P-25 |            |
| SS5204P-15 | SS5204P-28 |            |

## SS5300L

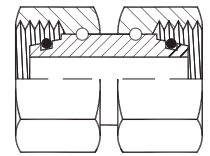
STAINLESS FEMALE DIN LIGHT  
DUTY SOFT SEAL UNION



|            |            |
|------------|------------|
| SS5300L-06 | SS5300L-15 |
| SS5300L-08 | SS5300L-18 |
| SS5300L-10 | SS5300L-22 |
| SS5300L-12 | SS5300L-28 |

## SS5300S

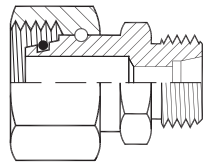
STAINLESS FEMALE DIN HEAVY  
DUTY SOFT SEAL UNION



|            |            |
|------------|------------|
| SS5300S-06 | SS5300S-14 |
| SS5300S-08 | SS5300S-16 |
| SS5300S-10 | SS5300S-20 |
| SS5300S-12 | SS5300S-25 |

## SS5315L

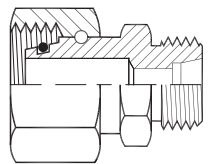
STAINLESS FEMALE DIN X MALE  
DIN REDUCER LIGHT DUTY



|               |               |               |
|---------------|---------------|---------------|
| SS5315L-10-06 | SS5315L-15-12 | SS5315L-22-18 |
| SS5315L-10-08 | SS5315L-18-10 | SS5315L-28-18 |
| SS5315L-12-06 | SS5315L-18-12 | SS5315L-28-22 |
| SS5315L-12-08 | SS5315L-18-15 |               |
| SS5315L-12-10 | SS5315L-22-12 |               |
| SS5315L-15-10 | SS5315L-22-15 |               |

## SS5315S

STAINLESS FEMALE DIN X MALE  
DIN REDUCER HEAVY DUTY



|               |               |               |
|---------------|---------------|---------------|
| SS5315S-08-06 | SS5315S-14-12 | SS5315S-25-20 |
| SS5315S-10-06 | SS5315S-16-10 |               |
| SS5315S-10-08 | SS5315S-16-12 |               |
| SS5315S-12-08 | SS5315S-16-14 |               |
| SS5315S-12-10 | SS5315S-20-12 |               |
| SS5315S-14-10 | SS5315S-20-16 |               |

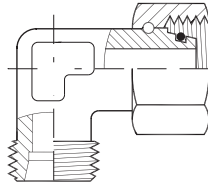
To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

TUTORIALS

## SS5360L

STAINLESS 90° DIN LIGHT DUTY X FEMALE DIN SWIVEL

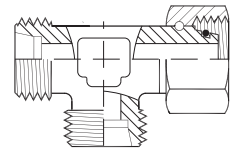


- |            |            |
|------------|------------|
| SS5360L-06 | SS5360L-15 |
| SS5360L-08 | SS5360L-18 |
| SS5360L-10 | SS5360L-22 |
| SS5360L-12 | SS5360L-28 |

FEATURED

## SS5390L

STAINLESS FEMALE DIN LIGHT DUTY SWIVEL RUN TEE

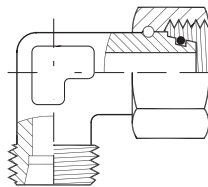


- |            |            |
|------------|------------|
| SS5390L-06 | SS5390L-15 |
| SS5390L-08 | SS5390L-18 |
| SS5390L-10 | SS5390L-22 |
| SS5390L-12 | SS5390L-28 |

STEEL

## SS5360S

STAINLESS 90° DIN HEAVY DUTY X FEMALE DIN SWIVEL

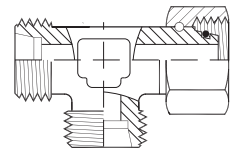


- |            |            |
|------------|------------|
| SS5360S-06 | SS5360S-14 |
| SS5360S-08 | SS5360S-16 |
| SS5360S-10 | SS5360S-20 |
| SS5360S-12 | SS5360S-25 |

STAINLESS STEEL

## SS5390S

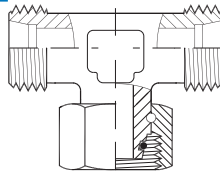
STAINLESS FEMALE DIN HEAVY DUTY SWIVEL RUN TEE



- |            |            |
|------------|------------|
| SS5390S-06 | SS5390S-14 |
| SS5390S-08 | SS5390S-16 |
| SS5390S-10 | SS5390S-20 |
| SS5390S-12 | SS5390S-25 |

## SS5387L

STAINLESS FEMALE DIN LIGHT DUTY SWIVEL BRANCH TEE

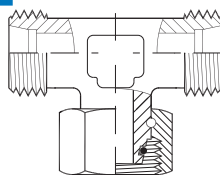


- |            |            |
|------------|------------|
| SS5387L-06 | SS5387L-15 |
| SS5387L-08 | SS5387L-18 |
| SS5387L-10 | SS5387L-22 |
| SS5387L-12 | SS5387L-28 |

BRASS

## 5387S

STAINLESS FEMALE DIN HEAVY DUTY SWIVEL BRANCH TEE



- |            |            |
|------------|------------|
| SS5387S-06 | SS5387S-14 |
| SS5387S-08 | SS5387S-16 |
| SS5387S-10 | SS5387S-20 |
| SS5387S-12 | SS5387S-25 |

MEALLEABLE IRON QUICK REFERENCE

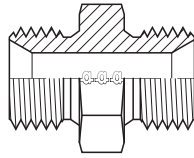
ABOUT

To order with nut(s) and cutting ring(s) add a "C" to the end of the part number.

# STAINLESS STEEL INTERNATIONAL ADAPTERS

## SS9000

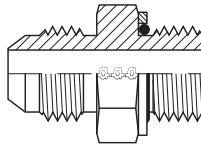
STAINLESS MALE BSPP NIPPLE



|              |              |              |
|--------------|--------------|--------------|
| SS9000-02-02 | SS9000-08-08 | SS9000-20-20 |
| SS9000-04-02 | SS9000-10-08 | SS9000-24-20 |
| SS9000-04-04 | SS9000-12-08 | SS9000-24-24 |
| SS9000-06-02 | SS9000-12-10 | SS9000-32-24 |
| SS9000-06-04 | SS9000-12-12 | SS9000-32-32 |
| SS9000-06-06 | SS9000-16-12 | SS9000-48-48 |
| SS9000-08-04 | SS9000-16-16 |              |
| SS9000-08-06 | SS9000-20-16 |              |

## SS9002

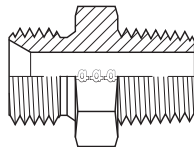
STAINLESS MALE JIC X MALE BSPP C/W OR & RR



|              |              |              |
|--------------|--------------|--------------|
| SS9002-04-02 | SS9002-08-06 | SS9002-16-16 |
| SS9002-04-04 | SS9002-08-08 | SS9002-16-20 |
| SS9002-04-06 | SS9002-08-12 | SS9002-20-20 |
| SS9002-06-02 | SS9002-10-10 | SS9002-24-20 |
| SS9002-06-04 | SS9002-12-08 | SS9002-24-24 |
| SS9002-06-06 | SS9002-12-12 | SS9002-32-32 |
| SS9002-06-08 | SS9002-12-16 |              |
| SS9002-08-04 | SS9002-16-12 |              |

## SS9003

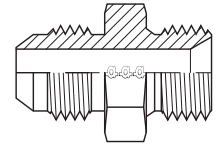
STAINLESS MALE BSPP X MALE BSPT



|              |              |              |
|--------------|--------------|--------------|
| SS9003-02-02 | SS9003-08-06 | SS9003-20-20 |
| SS9003-02-04 | SS9003-08-08 | SS9003-24-24 |
| SS9003-04-02 | SS9003-08-12 | SS9003-32-32 |
| SS9003-04-04 | SS9003-10-08 |              |
| SS9003-04-06 | SS9003-12-12 |              |
| SS9003-06-04 | SS9003-12-16 |              |
| SS9003-06-06 | SS9003-16-12 |              |
| SS9003-06-08 | SS9003-16-16 |              |

## SS9005

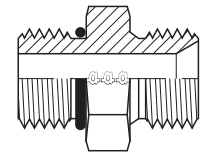
STAINLESS MALE JIC X MALE BSPP



|              |              |              |
|--------------|--------------|--------------|
| SS9005-04-02 | SS9005-08-08 | SS9005-16-16 |
| SS9005-04-04 | SS9005-08-12 | SS9005-20-20 |
| SS9005-06-04 | SS9005-10-10 | SS9005-24-24 |
| SS9005-06-06 | SS9005-12-08 | SS9005-32-32 |
| SS9005-06-08 | SS9005-12-12 |              |
| SS9005-08-06 | SS9005-16-12 |              |

## SS9006

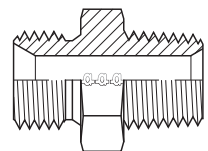
STAINLESS MALE SAE ORB X MALE BSPP



|              |              |              |
|--------------|--------------|--------------|
| SS9006-04-04 | SS9006-08-08 | SS9006-20-20 |
| SS9006-04-06 | SS9006-08-12 |              |
| SS9006-06-04 | SS9006-10-08 |              |
| SS9006-06-06 | SS9006-12-08 |              |
| SS9006-06-08 | SS9006-12-12 |              |
| SS9006-08-06 | SS9006-16-16 |              |

## SS9007

STAINLESS MALE BSPP X MALE NPT



|              |              |              |
|--------------|--------------|--------------|
| SS9007-02-02 | SS9007-08-06 | SS9007-16-12 |
| SS9007-02-04 | SS9007-08-08 | SS9007-16-16 |
| SS9007-04-02 | SS9007-08-12 | SS9007-20-20 |
| SS9007-04-04 | SS9007-10-08 | SS9007-24-24 |
| SS9007-04-06 | SS9007-12-08 | SS9007-32-32 |
| SS9007-06-04 | SS9007-12-12 |              |
| SS9007-06-06 | SS9007-12-16 |              |
| SS9007-06-08 | SS9007-16-08 |              |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

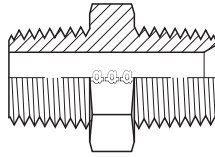
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

## SS9008

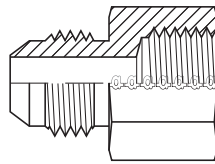
STAINLESS MALE BSPT X MALE NPT



- |              |              |              |
|--------------|--------------|--------------|
| SS9008-04-04 | SS9008-08-08 | SS9008-16-16 |
| SS9008-06-06 | SS9008-12-12 | SS9008-20-20 |

## SS9009

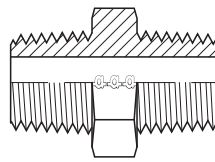
STAINLESS MALE JIC X FEMALE BSP



- |              |              |              |
|--------------|--------------|--------------|
| SS9009-04-04 | SS9009-08-06 | SS9009-16-16 |
| SS9009-06-04 | SS9009-08-08 | SS9009-20-20 |
| SS9009-06-06 | SS9009-10-10 | SS9009-24-24 |
| SS9009-06-08 | SS9009-12-12 |              |

## SS9010

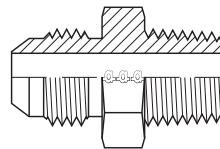
STAINLESS MALE BSPT NIPPLE



- |              |              |              |
|--------------|--------------|--------------|
| SS9010-02-02 | SS9010-08-08 | SS9010-24-24 |
| SS9010-04-02 | SS9010-12-08 | SS9010-32-32 |
| SS9010-04-04 | SS9010-12-12 | SS9010-40-40 |
| SS9010-06-04 | SS9010-16-12 | SS9010-48-48 |
| SS9010-06-06 | SS9010-16-16 |              |
| SS9010-08-06 | SS9010-20-20 |              |

## SS9011

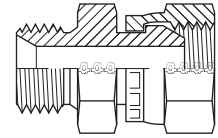
STAINLESS MALE JIC X MALE BSPT



- |              |              |              |
|--------------|--------------|--------------|
| SS9011-04-02 | SS9011-08-08 | SS9011-16-20 |
| SS9011-04-04 | SS9011-08-12 | SS9011-20-20 |
| SS9011-06-04 | SS9011-10-08 | SS9011-24-24 |
| SS9011-06-06 | SS9011-12-08 |              |
| SS9011-06-08 | SS9011-12-12 |              |
| SS9011-08-06 | SS9011-16-16 |              |

## SS9015

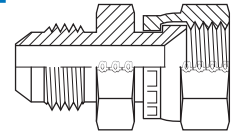
STAINLESS MALE BSPP X FEMALE BSPP SWIVEL



- |              |              |              |
|--------------|--------------|--------------|
| SS9015-02-02 | SS9015-08-04 | SS9015-16-16 |
| SS9015-02-04 | SS9015-08-06 | SS9015-20-20 |
| SS9015-04-02 | SS9015-08-08 | SS9015-24-24 |
| SS9015-04-04 | SS9015-08-12 | SS9015-32-32 |
| SS9015-04-06 | SS9015-10-08 |              |
| SS9015-06-04 | SS9015-10-10 |              |
| SS9015-06-06 | SS9015-12-08 |              |
| SS9015-06-08 | SS9015-12-12 |              |

## SS9020

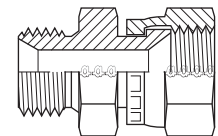
STAINLESS MALE JIC X FEMALE JIC SWIVEL



- |              |              |              |
|--------------|--------------|--------------|
| SS9020-04-04 | SS9020-08-08 | SS9020-12-10 |
| SS9020-04-06 | SS9020-08-10 | SS9020-12-12 |
| SS9020-06-04 | SS9020-08-12 | SS9020-16-12 |
| SS9020-06-06 | SS9020-10-08 | SS9020-16-16 |
| SS9020-06-08 | SS9020-10-10 |              |
| SS9020-08-06 | SS9020-12-08 |              |

## SS9021

STAINLESS MALE BSPP X FEMALE JIC SWIVEL



- |              |              |
|--------------|--------------|
| SS9021-04-04 | SS9021-12-12 |
| SS9021-06-06 | SS9021-16-16 |
| SS9021-08-08 | SS9021-20-20 |
| SS9021-10-10 | SS9021-24-24 |

## SS9026

STAINLESS FEMALE JIC X FEMALE JIC (SWIVEL)

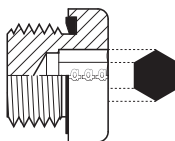


- |              |              |
|--------------|--------------|
| SS9026-04-04 | SS9026-12-12 |
| SS9026-06-06 | SS9026-16-16 |
| SS9026-08-08 | SS9026-20-20 |
| SS9026-10-10 | SS9026-24-24 |

# STAINLESS STEEL INTERNATIONAL ADAPTERS

## SS9028

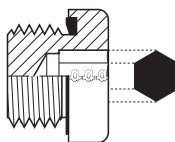
STAINLESS BSPP COUNTERSUNK SEALED PLUG



|           |           |
|-----------|-----------|
| SS9028-02 | SS9028-12 |
| SS9028-04 | SS9028-16 |
| SS9028-06 | SS9028-20 |
| SS9028-08 |           |

## SS9029

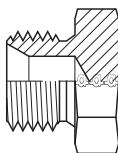
STAINLESS METRIC COUNTERSUNK SEALED PLUG



|               |               |               |
|---------------|---------------|---------------|
| SS9029-10X1.0 | SS9029-18X1.5 | SS9029-27X2.0 |
| SS9029-12X1.5 | SS9029-20X1.5 | SS9029-33X2.0 |
| SS9029-14X1.5 | SS9029-22X1.5 |               |
| SS9029-16X1.5 | SS9029-26X1.5 |               |

## SS9030

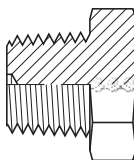
STAINLESS MALE BSPP HEX PLUG



|           |           |           |
|-----------|-----------|-----------|
| SS9030-02 | SS9030-10 | SS9030-24 |
| SS9030-04 | SS9030-12 | SS9030-32 |
| SS9030-06 | SS9030-16 |           |
| SS9030-08 | SS9030-20 |           |

## SS9030T

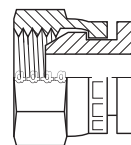
STAINLESS BSPT HEX PLUG



|            |            |            |
|------------|------------|------------|
| SS9030T-02 | SS9030T-12 | SS9030T-32 |
| SS9030T-04 | SS9030T-16 | SS9030T-40 |
| SS9030T-06 | SS9030T-20 | SS9030T-48 |
| SS9030T-08 | SS9030T-24 |            |

## SS9033

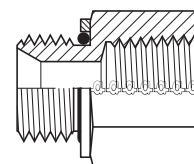
STAINLESS BSPP SWIVEL CAP



|           |           |           |
|-----------|-----------|-----------|
| SS9033-02 | SS9033-12 | SS9033-32 |
| SS9033-04 | SS9033-16 |           |
| SS9033-06 | SS9033-20 |           |
| SS9033-08 | SS9033-24 |           |

## SS9035S

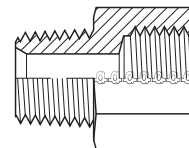
STAINLESS MALE BSPP X FEMALE NPT C/W OR & RR



|               |               |               |
|---------------|---------------|---------------|
| SS9035S-02-02 | SS9035S-06-06 | SS9035S-16-16 |
| SS9035S-04-02 | SS9035S-08-06 | SS9035S-20-20 |
| SS9035S-04-04 | SS9035S-08-08 | SS9035S-24-24 |
| SS9035S-06-04 | SS9035S-12-12 | SS9035S-32-32 |

## SS9037

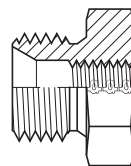
STAINLESS MALE NPT X FEMALE BSP



|              |              |              |
|--------------|--------------|--------------|
| SS9037-02-02 | SS9037-06-06 | SS9037-20-20 |
| SS9037-02-04 | SS9037-08-08 | SS9037-24-24 |
| SS9037-04-02 | SS9037-12-12 | SS9037-32-32 |
| SS9037-04-04 | SS9037-16-16 |              |

## SS9038

STAINLESS MALE BSPP X FEMALE BSP BUSHING



|              |              |              |
|--------------|--------------|--------------|
| SS9038-06-02 | SS9038-12-06 | SS9038-32-20 |
| SS9038-08-04 | SS9038-16-08 |              |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

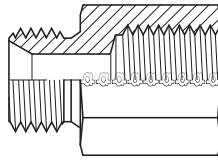
ABOUT

# STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

## SS9039

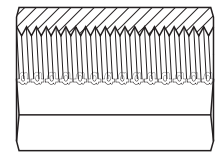
STAINLESS MALE BSPP X FEMALE BSP EXTENDED BUSHING



- |              |              |              |
|--------------|--------------|--------------|
| SS9039-02-06 | SS9039-06-04 | SS9039-08-08 |
| SS9039-04-02 | SS9039-06-06 | SS9039-12-08 |
| SS9039-04-04 | SS9039-06-08 | SS9039-12-12 |
| SS9039-04-06 | SS9039-08-06 | SS9039-16-12 |

## SS9043

STAINLESS FEMALE BSP X FEMALE BSP (SOLID)

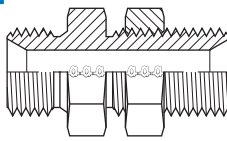


- |              |              |              |
|--------------|--------------|--------------|
| SS9043-02-02 | SS9043-12-12 | SS9043-32-32 |
| SS9043-04-04 | SS9043-16-16 |              |
| SS9043-06-06 | SS9043-20-20 |              |
| SS9043-08-08 | SS9043-24-24 |              |

FEATURED

## SS9040

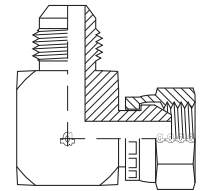
STAINLESS MALE BSPP X MALE BSPP BULKHEAD



- |              |              |              |
|--------------|--------------|--------------|
| SS9040-02-02 | SS9040-10-10 | SS9040-24-24 |
| SS9040-04-04 | SS9040-12-12 | SS9040-32-32 |
| SS9040-06-06 | SS9040-16-16 | SS9040-40-40 |
| SS9040-08-08 | SS9040-20-20 |              |

## SS9056

STAINLESS 90° MALE JIC X FEMALE BSPP (SWIVEL) ELBOW



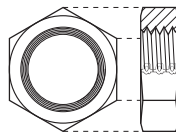
- |              |              |              |
|--------------|--------------|--------------|
| SS9056-04-04 | SS9056-08-08 | SS9056-16-16 |
| SS9056-06-06 | SS9056-12-12 |              |

STEEL

STAINLESS STEEL

## SS9041

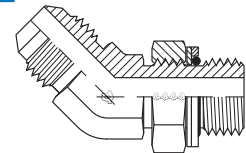
STAINLESS BSPP BULKHEAD LOCKNUT



- |           |           |           |
|-----------|-----------|-----------|
| SS9041-02 | SS9041-16 | SS9041-40 |
| SS9041-04 | SS9041-20 |           |
| SS9041-08 | SS9041-24 |           |
| SS9041-12 | SS9041-32 |           |

## SS9058

STAINLESS 45° MALE JIC X MALE BSPP ADJ. ELBOW



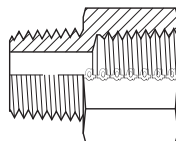
- |              |              |              |
|--------------|--------------|--------------|
| SS9058-04-04 | SS9058-08-08 | SS9058-16-16 |
| SS9058-06-06 | SS9058-12-12 |              |

BRASS

MEALLEABLE IRON

## SS9042

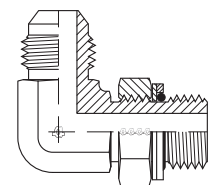
STAINLESS MALE BSPT X FEMALE NPT



- |              |              |
|--------------|--------------|
| SS9042-02-02 | SS9042-12-12 |
| SS9042-04-04 | SS9042-16-16 |
| SS9042-06-06 | SS9042-20-20 |
| SS9042-08-08 | SS9042-24-24 |

## SS9059

STAINLESS 90° MALE JIC X MALE BSPP ADJ. ELBOW



- |              |              |              |
|--------------|--------------|--------------|
| SS9059-04-02 | SS9059-06-08 | SS9059-12-12 |
| SS9059-04-04 | SS9059-08-06 | SS9059-16-16 |
| SS9059-06-04 | SS9059-08-08 | SS9059-20-20 |
| SS9059-06-06 | SS9059-12-08 | SS9059-24-24 |

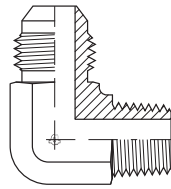
QUICK REFERENCE

ABOUT

# STAINLESS STEEL INTERNATIONAL ADAPTERS

## SS9063

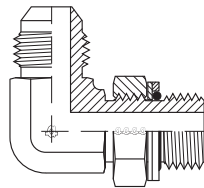
STAINLESS 90° MALE JIC X  
MALE BSPT ELBOW



|              |              |
|--------------|--------------|
| SS9063-04-02 | SS9063-08-06 |
| SS9063-04-04 | SS9063-08-08 |
| SS9063-06-04 | SS9063-10-08 |
| SS9063-06-06 | SS9063-12-12 |

## SS9069

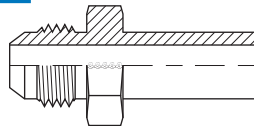
STAINLESS 90° MALE JIC X  
MALE METRIC ADJ. ELBOW



|              |              |              |
|--------------|--------------|--------------|
| SS9069-04-10 | SS9069-06-14 | SS9069-08-18 |
| SS9069-04-12 | SS9069-06-16 |              |

## SS9200

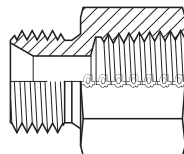
STAINLESS MALE JIC X  
DIN STANDPIPE



|              |              |              |
|--------------|--------------|--------------|
| SS9200-04-06 | SS9200-08-12 | SS9200-12-22 |
| SS9200-04-08 | SS9200-08-14 | SS9200-12-25 |
| SS9200-04-10 | SS9200-08-15 | SS9200-16-28 |
| SS9200-06-08 | SS9200-08-16 | SS9200-16-30 |
| SS9200-06-10 | SS9200-12-18 |              |
| SS9200-06-12 | SS9200-12-20 |              |

## SS9235

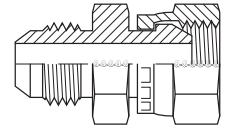
STAINLESS MALE METRIC X  
FEMALE NPT



|                  |              |
|------------------|--------------|
| SS9235-10-02     | SS9235-18-06 |
| SS9235-10X1.5-02 | SS9235-18-08 |
| SS9235-12-04     | SS9235-20-08 |
| SS9235-14-04     | SS9235-22-08 |
| SS9235-16-06     | SS9235-24-12 |
| SS9235-16-08     |              |

## SS9240

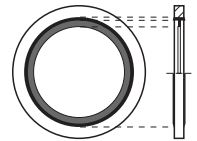
STAINLESS MALE JIC X FEMALE  
BSPP (SWIVEL)



|              |              |              |
|--------------|--------------|--------------|
| SS9240-04-04 | SS9240-08-08 | SS9240-16-16 |
| SS9240-06-06 | SS9240-12-12 |              |

## SS9500

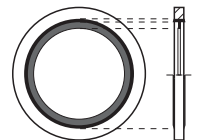
STAINLESS BONDED SEAL FOR  
BSPP THREAD



|           |           |           |
|-----------|-----------|-----------|
| SS9500-02 | SS9500-10 | SS9500-24 |
| SS9500-04 | SS9500-12 | SS9500-32 |
| SS9500-06 | SS9500-16 |           |
| SS9500-08 | SS9500-20 |           |

## SS9500-MM

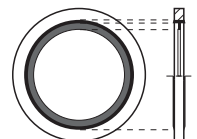
STAINLESS BONDED SEAL FOR  
METRIC THREAD



|             |             |             |
|-------------|-------------|-------------|
| SS9500-06MM | SS9500-14MM | SS9500-22MM |
| SS9500-08MM | SS9500-16MM | SS9500-26MM |
| SS9500-10MM | SS9500-18MM | SS9500-30MM |
| SS9500-12MM | SS9500-20MM |             |

## SS9500-V

STAINLESS BONDED SEAL FOR  
BSPP THREAD (VITON)



|            |            |
|------------|------------|
| SS9500-02V | SS9500-10V |
| SS9500-04V | SS9500-12V |
| SS9500-06V | SS9500-16V |
| SS9500-08V |            |

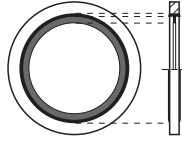


# STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

## SS9500-MMV

STAINLESS BONDED SEAL FOR METRIC THREAD (VITON)

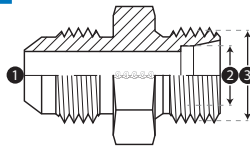


- SS9500-10MMV    SS9500-20MMV
- SS9500-12MMV    SS9500-24MMV
- SS9500-14MMV    SS9500-26MMV
- SS9500-16MMV

FEATURED

## SS9605

STAINLESS MALE JIC X MALE METRIC DIN (LIGHT DUTY)



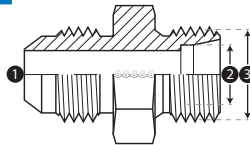
- SS9605-04-L06-12    SS9605-10-L15-22
- SS9605-04-L08-14    SS9605-12-L18-26
- SS9605-06-L10-16    SS9605-12-L22-30
- SS9605-06-L12-18    SS9605-16-L28-36
- SS9605-08-L12-18
- SS9605-08-L15-22

STEEL

STAINLESS STEEL

## SS9606

STAINLESS MALE JIC X MALE METRIC DIN (HEAVY DUTY)



- SS9606-04-S06-14    SS9606-08-S16-24
- SS9606-04-S08-16    SS9606-10-S16-24
- SS9606-06-S10-18    SS9606-12-S20-30
- SS9606-06-S12-20    SS9606-12-S25-36
- SS9606-08-S10-18    SS9606-16-S30-42
- SS9606-08-S12-20

BRASS

MEALLEABLE IRON

## SS9900

STAINLESS FEMALE BSPP (SWIVEL) X HOSE BARB



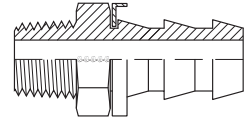
- SS9900-04-04    SS9900-08-08    SS9900-16-16
- SS9900-06-06    SS9900-12-12

QUICK REFERENCE

ABOUT

## SS9915

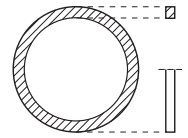
STAINLESS MALE BSPT X HOSE BARB



- SS9915-04-04    SS9915-12-12
- SS9915-06-06    SS9915-16-16
- SS9915-06-08    SS9915-20-20
- SS9915-08-08

## SSRR

STAINLESS RETAINING RING BSPP



- SSRR-02    SSRR-06    SSRR-12
- SSRR-04    SSRR-08    SSRR-16

# BRASS COMPRESSION, POLYTUBE & PUSH TO CONNECT

## 166

BRASS COMPRESSION X FEMALE BSP



|           |           |
|-----------|-----------|
| 166-04-02 | 166-06-04 |
| 166-04-04 | 166-06-06 |
| 166-05-02 | 166-08-08 |
| 166-05-04 |           |

## 168

BRASS COMPRESSION X MALE BSPT



|           |           |           |
|-----------|-----------|-----------|
| 168-04-02 | 168-05-04 | 168-06-08 |
| 168-04-04 | 168-06-02 | 168-08-04 |
| 168-04-06 | 168-06-04 | 168-08-06 |
| 168-05-02 | 168-06-06 | 168-08-08 |

## 169

90° BRASS COMPRESSION X MALE BSPT ELBOW



|           |           |           |
|-----------|-----------|-----------|
| 169-04-02 | 169-05-04 | 169-08-04 |
| 169-04-04 | 169-06-04 | 169-08-06 |
| 169-04-06 | 169-06-06 | 169-08-08 |
| 169-05-02 | 169-06-08 |           |

## 171

BRASS COMPRESSION X MALE BSPT RUN TEE



|           |           |
|-----------|-----------|
| 171-04-02 | 171-06-04 |
| 171-04-04 | 171-06-06 |
| 171-05-02 | 171-08-06 |
| 171-05-04 |           |

## 172

BRASS COMPRESSION X MALE BSPT BRANCH TEE



|           |           |
|-----------|-----------|
| 172-04-02 | 172-06-04 |
| 172-04-04 | 172-06-06 |
| 172-05-02 | 172-08-06 |
| 172-05-04 |           |

## 266

BRASS POLYTUBE COMPRESSION X FEMALE BSP



|           |           |
|-----------|-----------|
| 266-04-02 | 266-06-06 |
| 266-04-04 | 266-08-06 |
| 266-05-04 |           |
| 266-06-04 |           |

## 268

BRASS POLYTUBE COMPRESSION X MALE BSPT



|           |           |           |
|-----------|-----------|-----------|
| 268-04-02 | 268-06-02 | 268-08-08 |
| 268-04-04 | 268-06-04 |           |
| 268-04-06 | 268-06-06 |           |
| 268-05-02 | 268-06-08 |           |
| 268-05-04 | 268-08-04 |           |
| 268-05-06 | 268-08-06 |           |

## 269

90° BRASS POLYTUBE COMPRESSION X MALE BSPT ELBOW



|           |           |           |
|-----------|-----------|-----------|
| 269-04-02 | 269-05-06 | 269-08-06 |
| 269-04-04 | 269-06-02 | 269-08-08 |
| 269-04-06 | 269-06-04 |           |
| 269-04-08 | 269-06-06 |           |
| 269-05-02 | 269-06-08 |           |
| 269-05-04 | 269-08-04 |           |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

# BRASS COMPRESSION, POLYTUBE & PUSH TO CONNECT

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 270

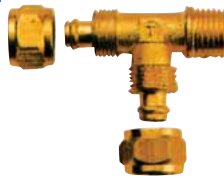
90° BRASS POLYTUBE COMPRESSION X FEMALE BSP ELBOW



|           |           |
|-----------|-----------|
| 270-04-02 | 270-06-06 |
| 270-04-04 | 270-08-06 |
| 270-05-04 |           |
| 270-06-04 |           |

## 271

BRASS POLYTUBE COMPRESSION X MALE BSPT RUN TEE



|           |           |
|-----------|-----------|
| 271-04-02 | 271-06-04 |
| 271-04-04 | 271-06-06 |
| 271-05-02 | 271-08-06 |
| 271-05-04 | 271-08-08 |

## 272

BRASS POLYTUBE COMPRESSION X MALE BSPT BRANCH TEE



|           |           |           |
|-----------|-----------|-----------|
| 272-04-02 | 272-05-04 | 272-08-08 |
| 272-04-04 | 272-06-04 |           |
| 272-04-06 | 272-06-06 |           |
| 272-05-02 | 272-08-06 |           |

## 566

BRASS PUSH TO CONNECT X FEMALE BSPT



|           |           |
|-----------|-----------|
| 566-04-02 | 566-05-06 |
| 566-04-04 | 566-06-04 |
| 566-05-02 | 566-06-06 |
| 566-05-04 | 566-06-08 |

## 568

BRASS PUSH TO CONNECT X MALE BSPT



|           |           |           |
|-----------|-----------|-----------|
| 568-02-02 | 568-05-04 | 568-06-08 |
| 568-04-04 | 568-06-02 | 568-08-04 |
| 568-04-06 | 568-06-04 | 568-08-06 |
| 568-05-02 | 568-06-06 | 568-08-08 |

## 569

90° BRASS PUSH TO CONNECT X MALE BSPT ELBOW



|           |           |           |
|-----------|-----------|-----------|
| 569-04-02 | 569-05-06 | 569-06-08 |
| 569-04-04 | 569-06-02 | 569-08-04 |
| 569-05-02 | 569-06-04 | 569-08-06 |
| 569-05-04 | 569-06-06 | 569-08-08 |

## 569BJ

90° BRASS BANJO PUSH TO CONNECT X MALE BSPT ELBOW



|             |             |
|-------------|-------------|
| 569BJ-04-02 | 569BJ-05-04 |
| 569BJ-04-04 | 569BJ-06-04 |
| 569BJ-04-06 | 569BJ-06-06 |
| 569BJ-05-02 |             |

## 569L

90° BRASS BANJO PUSH TO CONNECT X MALE BSPT ELBOW LONG



|            |            |
|------------|------------|
| 569L-04-02 | 569L-06-04 |
| 569L-04-04 | 569L-06-06 |
| 569L-05-02 | 569L-08-06 |
| 569L-05-04 |            |

# BRASS COMPRESSION, POLYTUBE & PUSH TO CONNECT

## 571

BRASS PUSH TO CONNECT X  
MALE BSPT RUN TEE



|           |           |
|-----------|-----------|
| 571-04-02 | 571-06-02 |
| 571-04-04 | 571-06-04 |
| 571-05-02 | 571-06-06 |
| 571-05-04 |           |

## 582

BRASS PUSH TO CONNECT  
FLOW CONTROL VALVE X  
MALE BSPT



|           |           |
|-----------|-----------|
| 582-04-02 | 582-06-02 |
| 582-04-04 | 582-06-04 |
| 582-05-02 | 582-06-06 |
| 582-05-04 |           |

## 572

BRASS PUSH TO CONNECT X  
MALE BSPT BRANCH TEE



|           |           |           |
|-----------|-----------|-----------|
| 572-04-02 | 572-06-04 | 572-08-08 |
| 572-04-04 | 572-06-06 |           |
| 572-05-02 | 572-08-04 |           |
| 572-05-04 | 572-08-06 |           |

## 575

BRASS PUSH TO CONNECT X  
MALE BSPT BRANCH "Y"



|           |           |           |
|-----------|-----------|-----------|
| 575-04-02 | 575-05-02 | 575-06-04 |
| 575-04-04 | 575-05-04 | 575-06-06 |

## 581

90° BRASS PUSH TO CONNECT  
METERING IN VALVE X MALE  
BSPT



|           |           |
|-----------|-----------|
| 581-04-02 | 581-06-02 |
| 581-04-04 | 581-06-04 |
| 581-05-02 | 581-06-06 |
| 581-05-04 |           |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# BRASS INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

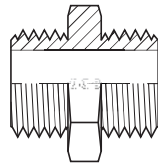
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 8000

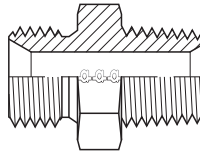
BRASS MALE BSPP NIPPLE



|            |            |            |
|------------|------------|------------|
| 8000-02-02 | 8000-08-04 | 8000-16-16 |
| 8000-04-02 | 8000-08-06 | 8000-24-20 |
| 8000-04-04 | 8000-08-08 |            |
| 8000-06-02 | 8000-12-08 |            |
| 8000-06-04 | 8000-12-12 |            |
| 8000-06-06 | 8000-16-12 |            |

## 8007

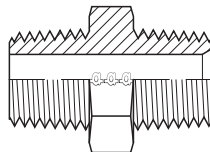
BRASS MALE BSPP X MALE NPT



|            |            |
|------------|------------|
| 8007-04-04 | 8007-06-06 |
| 8007-06-04 | 8007-08-08 |

## 8008

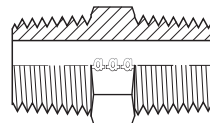
BRASS MALE BSPT X MALE NPT



|            |            |
|------------|------------|
| 8008-02-02 | 8008-08-08 |
| 8008-02-04 | 8008-12-12 |
| 8008-04-04 | 8008-16-16 |
| 8008-06-06 |            |

## 8010

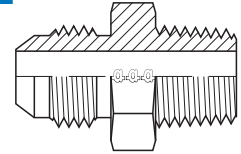
BRASS MALE BSPT NIPPLE



|            |            |            |
|------------|------------|------------|
| 8010-02-02 | 8010-08-04 | 8010-16-12 |
| 8010-04-02 | 8010-08-06 | 8010-16-16 |
| 8010-04-04 | 8010-08-08 |            |
| 8010-06-02 | 8010-12-06 |            |
| 8010-06-04 | 8010-12-08 |            |
| 8010-06-06 | 8010-12-12 |            |

## 8011

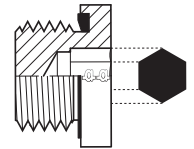
BRASS MALE JIC X MALE BSPT



|            |            |            |
|------------|------------|------------|
| 8011-04-02 | 8011-06-06 | 8011-08-08 |
| 8011-04-04 | 8011-08-06 | 8011-12-12 |

## 8028

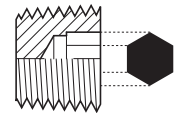
BRASS COUNTERSUNK BSPP SEALED PLUG



|         |         |
|---------|---------|
| 8028-02 | 8028-06 |
| 8028-04 | 8028-08 |

## 8030CSP

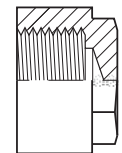
BRASS COUNTERSUNK BSPT PLUG



|            |            |            |
|------------|------------|------------|
| 8030CSP-02 | 8030CSP-06 | 8030CSP-12 |
| 8030CSP-04 | 8030CSP-08 | 8030CSP-16 |

## 8033

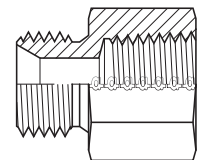
BRASS BSP SOLID CAP



|         |         |         |
|---------|---------|---------|
| 8033-02 | 8033-06 | 8033-12 |
| 8033-04 | 8033-08 |         |

## 8035

BRASS MALE BSPP X FEMALE NPT

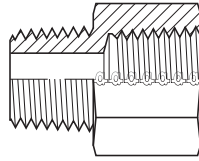


|            |            |            |
|------------|------------|------------|
| 8035-02-02 | 8035-06-06 | 8035-20-20 |
| 8035-04-02 | 8035-08-08 |            |
| 8035-04-04 | 8035-12-12 |            |
| 8035-04-06 | 8035-16-16 |            |

# BRASS INTERNATIONAL ADAPTERS

## 8036

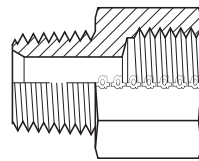
BRASS MALE BSPT X FEMALE NPT



|            |            |
|------------|------------|
| 8036-02-02 | 8036-12-12 |
| 8036-04-04 | 8036-16-08 |
| 8036-06-06 | 8036-16-16 |
| 8036-08-08 |            |

## 8037

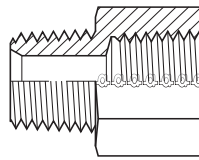
BRASS MALE NPT X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 8037-02-02 | 8037-06-06 | 8037-12-12 |
| 8037-04-04 | 8037-08-08 |            |

## 8037T

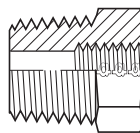
BRASS MALE NPT X FEMALE BSPT



|             |             |
|-------------|-------------|
| 8037T-02-02 | 8037T-08-12 |
| 8037T-04-04 | 8037T-12-12 |
| 8037T-06-06 | 8037T-16-16 |
| 8037T-08-08 | 8037T-20-20 |

## 8038

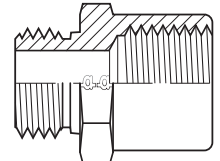
BRASS MALE BSPT X FEMALE BSP BUSHING



|            |            |            |
|------------|------------|------------|
| 8038-02-02 | 8038-04-08 | 8038-12-06 |
| 8038-02-04 | 8038-06-02 | 8038-12-08 |
| 8038-02-06 | 8038-06-04 | 8038-16-12 |
| 8038-04-02 | 8038-06-06 |            |
| 8038-04-04 | 8038-08-04 |            |
| 8038-04-06 | 8038-08-06 |            |

## 8039

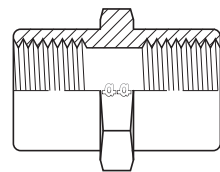
BRASS MALE BSPP X FEMALE BSP BUSHING



|            |            |            |
|------------|------------|------------|
| 8039-02-02 | 8039-06-04 | 8039-08-08 |
| 8039-02-04 | 8039-06-06 | 8039-12-04 |
| 8039-04-02 | 8039-06-08 | 8039-12-06 |
| 8039-04-04 | 8039-08-02 | 8039-12-08 |
| 8039-04-06 | 8039-08-04 | 8039-16-12 |
| 8039-06-02 | 8039-08-06 |            |

## 8043

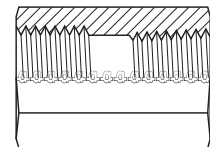
BRASS FEMALE BSP X FEMALE BSP



|            |            |            |
|------------|------------|------------|
| 8043-02-02 | 8043-06-04 | 8043-08-08 |
| 8043-04-02 | 8043-06-06 | 8043-12-12 |
| 8043-04-04 | 8043-08-04 |            |
| 8043-06-02 | 8043-08-06 |            |

## 8044

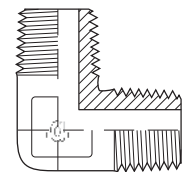
BRASS FEMALE BSP X FEMALE NPT



|            |            |            |
|------------|------------|------------|
| 8044-02-02 | 8044-08-04 | 8044-24-24 |
| 8044-04-04 | 8044-08-08 | 8044-32-32 |
| 8044-06-04 | 8044-16-16 |            |
| 8044-06-06 | 8044-20-20 |            |

## 8055

BRASS 90° MALE BSPT ELBOW



|            |            |            |
|------------|------------|------------|
| 8055-02-02 | 8055-06-06 | 8055-12-12 |
| 8055-04-04 | 8055-08-08 |            |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# BRASS INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

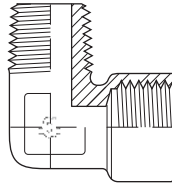
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 8060

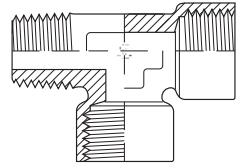
BRASS 90° MALE BSPT X FEMALE BSP ELBOW



- 8060-02-02
- 8060-06-06
- 8060-12-12
- 8060-04-04
- 8060-08-08

## 8095

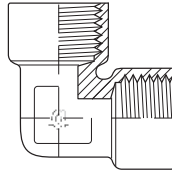
BRASS FEMALE BSP X MALE BSPT RUN TEE



- 8095-02-02-02
- 8095-06-06-06
- 8095-04-04-04
- 8095-08-08-08

## 8075

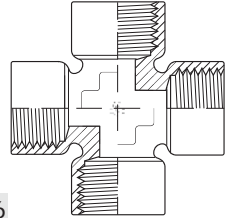
BRASS 90° FEMALE BSP ELBOW



- 8075-02-02
- 8075-06-06
- 8075-12-12
- 8075-04-04
- 8075-08-08

## 8097

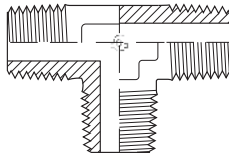
BRASS FEMALE BSP CROSS



- 8097-02-02-02-02
- 8097-06-06-06-06
- 8097-04-04-04-04
- 8097-08-08-08-08

## 8080

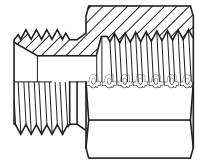
BRASS MALE BSPT TEE



- 8080-02-02-02
- 8080-06-06-06
- 8080-12-12-12
- 8080-04-04-04
- 8080-08-08-08

## 8235

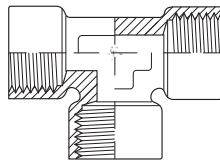
BRASS MALE METRIC X FEMALE NPT



- 8235-14-02
- 8235-16-06
- 8235-22-06
- 8235-14-04
- 8235-18-08

## 8085

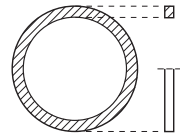
BRASS FEMALE BSP TEE



- 8085-02-02-02
- 8085-06-06-06
- 8085-12-12-12
- 8085-04-04-04
- 8085-08-08-08

## 8400

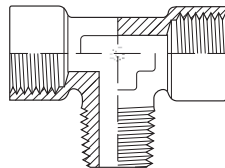
ALUMINUM WASHER BSPP THREAD



- 8400-04
- 8400-08
- 8400-06
- 8400-12

## 8093

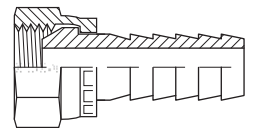
BRASS FEMALE BSP X MALE BSPT BRANCH TEE



- 8093-02-02-02
- 8093-06-06-06
- 8093-04-04-04
- 8093-08-08-08

## 8900

BRASS FEMALE BSPP (SWIVEL) X HOSE BARB



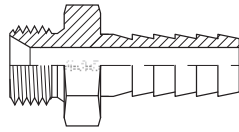
- 8900-04-04
- 8900-06-08
- 8900-12-12
- 8900-06-06
- 8900-08-08



# BRASS INTERNATIONAL ADAPTERS

## 8920

BRASS MALE BSPP X  
HOSE BARB



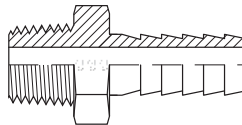
8920-04-06  
8920-04-08

8920-08-08  
8920-12-12

8920-16-16

## 8920T

MALE BSPT X HOSE BARB



8920T-02-02

8920T-04-08

8920T-12-12

8920T-02-03

8920T-06-04

8920T-16-16

8920T-02-04

8920T-06-06

8920T-20-20

8920T-02-05

8920T-06-08

8920T-24-24

8920T-02-06

8920T-08-06

8920T-32-32

8920T-04-03

8920T-08-08

8920T-04-04

8920T-08-12

8920T-04-06

8920T-12-08

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# BSP BLACK PIPE/MALLEABLE IRON

TUTORIALS

## B14C

BLACK BSP CAP



|         |         |         |
|---------|---------|---------|
| B14C-04 | B14C-16 | B14C-40 |
| B14C-06 | B14C-20 | B14C-48 |
| B14C-08 | B14C-24 |         |
| B14C-12 | B14C-32 |         |

FEATURED

## B1404

BLACK BSP COUPLING



|             |             |             |
|-------------|-------------|-------------|
| B1404-04-04 | B1404-16-16 | B1404-32-24 |
| B1404-06-04 | B1404-20-16 | B1404-32-32 |
| B1404-06-06 | B1404-20-20 | B1404-40-32 |
| B1404-08-04 | B1404-24-08 | B1404-40-40 |
| B1404-08-06 | B1404-24-20 | B1404-48-40 |
| B1404-08-08 | B1404-24-24 | B1404-48-48 |
| B1404-12-08 | B1404-32-08 |             |
| B1404-12-12 | B1404-32-12 |             |
| B1404-16-08 | B1404-32-16 |             |
| B1404-16-12 | B1404-32-20 |             |

STEEL

STAINLESS STEEL

BRASS

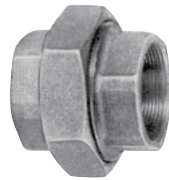
MALLEABLE IRON

QUICK REFERENCE

ABOUT

## B1404U

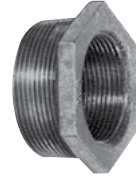
BLACK BSP UNION



|              |              |              |
|--------------|--------------|--------------|
| B1404U-02-02 | B1404U-12-12 | B1404U-32-32 |
| B1404U-04-04 | B1404U-16-16 | B1404U-40-40 |
| B1404U-06-06 | B1404U-20-20 | B1404U-48-48 |
| B1404U-08-08 | B1404U-24-24 |              |

## B1804

BLACK BSPT BUSHING



|             |             |             |
|-------------|-------------|-------------|
| B1804-04-02 | B1804-16-08 | B1804-32-20 |
| B1804-06-02 | B1804-16-12 | B1804-32-24 |
| B1804-06-04 | B1804-20-08 | B1804-40-20 |
| B1804-08-02 | B1804-20-12 | B1804-40-24 |
| B1804-08-04 | B1804-20-16 | B1804-40-32 |
| B1804-08-06 | B1804-24-08 | B1804-48-24 |
| B1804-12-04 | B1804-24-12 | B1804-48-32 |
| B1804-12-06 | B1804-24-16 | B1804-48-40 |
| B1804-12-08 | B1804-24-20 |             |
| B1804-16-06 | B1804-32-16 |             |

## B1808H

BLACK BSPT NIPPLE



|              |              |              |
|--------------|--------------|--------------|
| B1808H-04-02 | B1808H-12-12 | B1808H-32-20 |
| B1808H-04-04 | B1808H-16-08 | B1808H-32-24 |
| B1808H-06-02 | B1808H-16-12 | B1808H-32-32 |
| B1808H-06-04 | B1808H-16-16 | B1808H-40-32 |
| B1808H-06-06 | B1808H-20-12 | B1808H-40-40 |
| B1808H-08-04 | B1808H-20-16 | B1808H-48-48 |
| B1808H-08-06 | B1808H-20-20 |              |
| B1808H-08-08 | B1808H-24-16 |              |
| B1808H-12-06 | B1808H-24-20 |              |
| B1808H-12-08 | B1808H-24-24 |              |

## B1808L

BLACK LONG BSPT NIPPLE



|                 |                 |
|-----------------|-----------------|
| B1808L-04-40MM  | B1808L-12-40MM  |
| B1808L-04-60MM  | B1808L-12-60MM  |
| B1808L-04-80MM  | B1808L-12-80MM  |
| B1808L-04-120MM | B1808L-16-40MM  |
| B1808L-06-40MM  | B1808L-16-60MM  |
| B1808L-06-60MM  | B1808L-16-80MM  |
| B1808L-06-80MM  | B1808L-20-150MM |
| B1808L-08-40MM  | B1808L-20-400MM |
| B1808L-08-60MM  | B1808L-20-4"    |
| B1808L-08-80MM  | B1808L-20-10"   |

# BSP BLACK PIPE/MALLEABLE IRON

## B18SQP

BLACK BSPT SQUARE HEAD PLUG



|           |           |           |
|-----------|-----------|-----------|
| B18SQP-04 | B18SQP-16 | B18SQP-40 |
| B18SQP-06 | B18SQP-20 | B18SQP-48 |
| B18SQP-08 | B18SQP-24 |           |
| B18SQP-12 | B18SQP-32 |           |

## B2404

BLACK BSP 45° FEMALE ELBOW



|             |             |
|-------------|-------------|
| B2404-06-06 | B2404-20-20 |
| B2404-08-08 | B2404-24-24 |
| B2404-12-12 | B2404-32-32 |
| B2404-16-16 |             |

## B2804

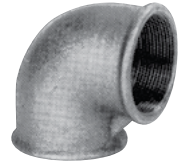
BLACK 45° BSPT STREET ELBOW



|             |             |             |
|-------------|-------------|-------------|
| B2804-06-06 | B2804-12-12 | B2804-20-20 |
| B2804-08-08 | B2804-16-16 |             |

## B3404

BLACK BSP 90° FEMALE ELBOW



|             |             |             |
|-------------|-------------|-------------|
| B3404-02-02 | B3404-12-08 | B3404-24-16 |
| B3404-04-04 | B3404-12-12 | B3404-24-20 |
| B3404-06-04 | B3404-16-08 | B3404-24-24 |
| B3404-06-06 | B3404-16-12 | B3404-32-32 |
| B3404-08-04 | B3404-16-16 | B3404-40-40 |
| B3404-08-06 | B3404-20-12 | B3404-48-48 |
| B3404-08-08 | B3404-20-16 |             |
| B3404-12-06 | B3404-20-20 |             |

## B3804

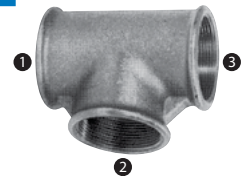
BLACK 90° BSPT STREET ELBOW



|             |             |             |
|-------------|-------------|-------------|
| B3804-04-04 | B3804-16-16 | B3804-40-40 |
| B3804-06-06 | B3804-20-20 | B3804-48-48 |
| B3804-08-08 | B3804-24-24 |             |
| B3804-12-12 | B3804-32-32 |             |

## B4444

BLACK BSP FEMALE TEE



|          |                |          |
|----------|----------------|----------|
| B4444-04 | B4444-24       | B4444-48 |
| B4444-06 | B4444-24-08-20 |          |
| B4444-08 | B4444-24-20-24 |          |
| B4444-12 | B4444-32       |          |
| B4444-16 | B4444-32-32-08 |          |
| B4444-20 | B4444-40       |          |

# QUICK REFERENCE

## INSTRUCTIONS

1. The thread types for each description are displayed hose/tube and/or male side first, then port and/or female side.
2. If both sides of a fitting are the same (both hose/tube or both port) they are displayed alphabetically.
3. Part descriptions are then arranged in alphabetical order, with males appearing before females. For example, a male BSPP is typically the first listed while a female is last.
4. Thread types are displayed first to allow for quick searching along the margin (as opposed to thread gender first which is common).

## STRAIGHT FITTINGS - MALE X MALE

| DESCRIPTIONS                        | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|-------------------------------------|--------|------|-----------|------|--------|------|------------|------|
|                                     | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSPP MALE X BSPP MALE               | 9000   | 47   | SS9000    | 81   | 8000   | 90   |            |      |
| BSPP MALE X BSPP MALE BULKHEAD      | 9040   | 57   | SS9040    | 84   |        |      |            |      |
| BSPP MALE X BSPP MALE BULKHEAD LONG | 9040L  | 57   |           |      |        |      |            |      |
| BSPP MALE X BSPP MALE ADJ. OR+RR    | 9474   | 70   |           |      |        |      |            |      |
| BSPP MALE X BSPT MALE               | 9003   | 48   | SS9003    | 81   |        |      |            |      |
| BSPP MALE X METRIC MALE             | 9004   | 48   |           |      |        |      |            |      |
| BSPP MALE X METRIC MALE BULKHEAD    | 9040M  | 57   |           |      |        |      |            |      |
| BSPP MALE X NPT MALE                | 9007   | 50   | SS9007    | 81   | 8007   | 90   |            |      |
| BSPP MALE X ORB MALE                | 9006   | 49   | SS9006    | 81   |        |      |            |      |
| BSPT MALE X BSPT MALE               | 9010   | 50   | SS9010    | 82   | 8010   | 90   | B1808H     | 94   |
| BSPT MALE X BSPT MALE LONG          |        |      |           |      |        |      | B1808L     | 94   |
| BSPT MALE X NPT MALE                | 9008   | 50   | SS9008    | 82   | 8008   | 90   |            |      |

## STRAIGHT FITTINGS - MALE X MALE

| DESCRIPTIONS                       | STEEL   |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|------------------------------------|---------|------|-----------|------|--------|------|------------|------|
|                                    | SERIES  | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| DIN MALE X BSPP MALE ES SEAL       | 5002    | 31   | SS5002    | 76   |        |      |            |      |
| DIN MALE X BSPP MALE SHOULDER SEAL |         |      | SS5001    | 76   |        |      |            |      |
| DIN MALE X BSPP MALE BULKHEAD      | 5040ES  | 33   |           |      |        |      |            |      |
| DIN MALE X BSPT MALE               | 5011    | 33   |           |      |        |      |            |      |
| DIN MALE X DIN MALE                | 5000    | 31   | SS5000    | 76   |        |      |            |      |
| DIN MALE X DIN MALE BULKHEAD       | 5040    | 33   | SS5040    | 77   |        |      |            |      |
| DIN MALE X JIC MALE (LIGHT)        | 9605    | 71   | SS9605    | 86   |        |      |            |      |
| DIN MALE X JIC MALE OR+RR (LIGHT)  | 9605S   | 71   |           |      |        |      |            |      |
| DIN MALE X JIC MALE (HEAVY)        | 9606    | 71   | SS9606    | 86   |        |      |            |      |
| DIN MALE X JIC MALE OR+RR (HEAVY)  | 9606S   | 72   |           |      |        |      |            |      |
| DIN METRIC MALE (JSW) X JIC MALE   | 9245    | 67   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE ES SEAL     | 5068    | 36   | SS5068    | 78   |        |      |            |      |
| DIN MALE X METRIC TAPER MALE       | 5068LLT | 36   |           |      |        |      |            |      |
| DIN MALE (TUBE ONLY) X NPT MALE    | 5007    | 32   | SS5007    | 76   |        |      |            |      |
| DIN MALE (PORT & TUBE) X NPT MALE  | 9607    | 72   |           |      |        |      |            |      |
| DIN MALE X ORB MALE                | 5006    | 31   |           |      |        |      |            |      |
| DIN MALE X ORFS MALE (LIGHT)       | 6605    | 46   |           |      |        |      |            |      |
| DIN MALE X ORFS MALE (HEAVY)       | 6606    | 47   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE               | 9005    | 49   | SS9005    | 81   |        |      |            |      |
| JIC MALE X BSPP MALE ES SEAL       | 9005ES  | 49   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE OR+RR         | 9002    | 48   | SS9002    | 81   |        |      |            |      |
| JIC MALE X BSPP MALE EXTRA LONG    | 9005EL  | 49   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE LONG          | 9005L   | 49   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE LONG OR+RR    | 9002L   | 48   |           |      |        |      |            |      |
| JIC MALE X BSPT MALE               | 9011    | 50   | SS9011    | 82   | 8011   | 90   |            |      |
| JIC MALE X JIS MALE                | 9337    | 69   |           |      |        |      |            |      |
| JIC MALE X KOBELCO MALE            | 9247    | 67   |           |      |        |      |            |      |
| JIC MALE X KOMATSU MALE            | 9237    | 67   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE             | 9067    | 61   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE OR+RR       | 9068    | 61   |           |      |        |      |            |      |
| JIC MALE X NISSAN MALE             | 9228    | 65   |           |      |        |      |            |      |
| JIC MALE X ORFS MALE               | 6622    | 47   |           |      |        |      |            |      |

# QUICK REFERENCE

## STRAIGHT FITTINGS - MALE X MALE

| DESCRIPTIONS                  | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|-------------------------------|--------|------|-----------|------|--------|------|------------|------|
|                               | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| JIS MALE X BSPT MALE          | 9223   | 65   |           |      |        |      |            |      |
| JIS MALE X JIS MALE           | 9336   | 69   |           |      |        |      |            |      |
| JIS MALE X ORB MALE           | 9277   | 68   |           |      |        |      |            |      |
| JIS MALE X ORFS MALE          | 6337   | 46   |           |      |        |      |            |      |
| KOBELCO MALE X ORFS MALE      | 6247   | 46   |           |      |        |      |            |      |
| KOMATSU MALE X BSPT MALE      | 9233   | 66   |           |      |        |      |            |      |
| KOMATSU MALE X KOMATSU MALE   | 9236   | 67   |           |      |        |      |            |      |
| KOMATSU MALE X ORFS MALE      | 6237   | 46   |           |      |        |      |            |      |
| METRIC MALE X METRIC MALE     | 9001   | 48   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE OR+RR   | 6002   | 44   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE         | 6005   | 44   |           |      |        |      |            |      |
| ORFS MALE X BSPT MALE SHORT   | 6011   | 45   |           |      |        |      |            |      |
| ORFS MALE X METRIC MALE OR+RR | 6068   | 45   |           |      |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## STRAIGHT FITTINGS - MALE X FEMALE

| DESCRIPTIONS                                | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSPP MALE X BSPP FEMALE SWIVEL              | 9015   | 51   | SS9015    | 82   |        |      |            |      |
| BSPP MALE X BSP FEMALE BUSHING              | 9038   | 56   | SS9038    | 83   | 8039   | 91   |            |      |
| BSPP MALE X BSP FEMALE BUSHING ES SEAL      | 9038ES | 56   |           |      |        |      |            |      |
| BSPP MALE X BSP FEMALE LONG BUSHING         | 9039   | 56   | SS9039    | 84   | 8039   | 91   |            |      |
| BSPP MALE X BSP FEMALE LONG BUSHING ES SEAL | 9039ES | 56   |           |      |        |      |            |      |
| BSPP MALE X BSPT FEMALE                     | 9034   | 55   |           |      |        |      |            |      |
| BSPP MALE X DIN FEMALE ES SEAL              | 5302   | 41   |           |      |        |      |            |      |
| BSPP MALE X JIC FEMALE SWIVEL               | 9021   | 52   | SS9021    | 82   |        |      |            |      |
| BSPP MALE X METRIC FEMALE SWIVEL            | 9019   | 51   |           |      |        |      |            |      |
| BSPP MALE X NPT FEMALE                      | 9035   | 55   |           |      | 8035   | 90   |            |      |
| BSPP MALE X NPT FEMALE OR+RR                | 9035S  | 55   | SS9035S   | 83   |        |      |            |      |
| BSPP MALE X ORB FEMALE                      | 9036   | 56   |           |      |        |      |            |      |
| BSPT MALE X BSP FEMALE SOLID                | 9032   | 55   |           |      | 8038   | 91   |            |      |
| BSPT MALE X BSPP FEMALE SWIVEL              | 9032S  | 55   |           |      |        |      |            |      |
| BSPT MALE X BSPT FEMALE BUSHING             | 9031   | 54   |           |      |        |      | B1804      | 94   |
| BSPT MALE X NPT FEMALE                      | 9042   | 57   | SS9042    | 84   | 8036   | 91   |            |      |
| BSPT MALE X ORB FEMALE                      | 9536   | 70   |           |      |        |      |            |      |
| DIN MALE X BSP FEMALE SOLID                 | 5009   | 32   |           |      |        |      |            |      |
| DIN MALE X BSP FEMALE GAUGE COUPLING        | 5009GC | 32   |           |      |        |      |            |      |
| DIN MALE X DIN FEMALE REDUCER               | 5315   | 42   | SS5315    | 79   |        |      |            |      |
| DIN MALE X JIC FEMALE SOLID                 | 9624   | 72   |           |      |        |      |            |      |
| DIN MALE X NPT FEMALE OR+RR (LIGHT)         | 9635S  | 72   |           |      |        |      |            |      |
| DIN MALE X NPT FEMALE OR+RR (HEAVY)         | 9636S  | 73   |           |      |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT



# QUICK REFERENCE

## STRAIGHT FITTINGS - MALE X FEMALE

| DESCRIPTIONS                             | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|--|--------|------|-----------|------|--------|------|------------|------|
|  | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| JIC MALE X BSP FEMALE SOLID              | 9009   | 50   | SS9009    | 82   |        |      |            |      |
| JIC MALE X BSPP FEMALE SWIVEL            | 9240   | 67   | SS9240    | 85   |        |      |            |      |
| JIC MALE X DIN FEMALE SWIVEL             | 9197   | 64   |           |      |        |      |            |      |
| JIC MALE X HIAB FEMALE SWIVEL            | 9210   | 65   |           |      |        |      |            |      |
| JIC MALE X JIC FEMALE SOLID              | 9020C  | 52   |           |      |        |      |            |      |
| JIC MALE X JIC FEMALE SWIVEL             | 9020   | 51   | SS9020    | 82   |        |      |            |      |
| JIC MALE X JIS FEMALE SOLID              | 9220   | 65   |           |      |        |      |            |      |
| JIC MALE X KOMATSU FEMALE SOLID          | 9230   | 66   |           |      |        |      |            |      |
| JIC MALE X METRIC FEMALE SWIVEL          | 9022   | 52   |           |      |        |      |            |      |
| JIC MALE X METRIC FEMALE FLAT FACE       | 9022F  | 52   |           |      |        |      |            |      |
| JIC MALE X METRIC FEMALE FLAT FACE SHORT | 9022FC | 52   |           |      |        |      |            |      |
| JIC MALE X METRIC FEMALE SOLID           | 9622   | 72   |           |      |        |      |            |      |
| JIC MALE X NISSAN FEMALE SOLID           | 9229   | 66   |           |      |        |      |            |      |
| JIC MALE X ORFS FEMALE SWIVEL            | 6620   | 47   |           |      |        |      |            |      |
| METRIC MALE X BSPP FEMALE SWIVEL         | 9018   | 51   |           |      |        |      |            |      |
| METRIC MALE X BSPT FEMALE                | 9234   | 66   |           |      |        |      |            |      |
| METRIC MALE X DIN FEMALE ES SEAL         | 5368   | 43   |           |      |        |      |            |      |
| METRIC MALE X JIC FEMALE SWIVEL          | 9024   | 53   |           |      |        |      |            |      |
| METRIC MALE X JIC FEMALE SWIVEL OR+RR    | 9024S  | 53   |           |      |        |      |            |      |
| METRIC MALE X METRIC FEMALE BUSHING      | 9638   | 73   |           |      |        |      |            |      |
| METRIC MALE X NPT FEMALE                 | 9235   | 66   | SS9235    | 85   | 8235   | 92   |            |      |
| METRIC MALE X ORB FEMALE                 | 9335   | 69   |           |      |        |      |            |      |
| NPT MALE X BSP FEMALE SOLID              | 9037   | 56   | SS9037    | 83   | 8037   | 91   |            |      |
| NPT MALE X BSPP FEMALE SWIVEL            | 9023   | 52   |           |      |        |      |            |      |
| NPT MALE X BSPT FEMALE                   |        |      |           |      | 8037T  | 91   |            |      |
| NPT MALE X DIN FEMALE                    | 5307   | 41   |           |      |        |      |            |      |
| NPT MALE X JIC FEMALE SWIVEL             | 9017   | 51   |           |      |        |      |            |      |
| NPT MALE X METRIC FEMALE SOLID           | 9325   | 68   |           |      |        |      |            |      |
| ORB MALE X BSP FEMALE SOLID              | 9120   | 63   |           |      |        |      |            |      |
| ORFS MALE X JIC FEMALE SWIVEL            | 6621   | 47   |           |      |        |      |            |      |
| ORFS MALE X JIS FEMALE SOLID             | 6220   | 46   |           |      |        |      |            |      |
| ORFS MALE X KOMATSU FEMALE SOLID         | 6230   | 46   |           |      |        |      |            |      |

## STRAIGHT FITTINGS - FEMALE X FEMALE

| DESCRIPTIONS                           | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|--|--------|------|-----------|------|--------|------|------------|------|
|  | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSP FEMALE X BSP FEMALE SOLID          | 9043   | 57   | SS9043    | 84   | 8043   | 91   | B1404      | 94   |
| BSPP FEMALE X BSPP FEMALE SWIVEL       | 9025   | 53   |           |      |        |      | B1404U     | 94   |
| BSP FEMALE X NPT FEMALE SOLID          | 9044   | 58   |           |      | 8044   | 91   |            |      |
| DIN FEMALE X BSP FEMALE GAUGE COUPLING | 5309GC | 41   |           |      |        |      |            |      |
| DIN FEMALE X DIN FEMALE                | 5300   | 41   | SS5300    | 79   |        |      |            |      |
| JIC FEMALE X BSPP FEMALE SWIVEL        | 9027   | 53   |           |      |        |      |            |      |
| JIC FEMALE X JIC FEMALE SWIVEL         | 9026   | 53   | SS9026    | 82   |        |      |            |      |
| JIC FEMALE X JIS FEMALE SWIVEL         | 9226   | 65   |           |      |        |      |            |      |
| KOMATSU FEMALE X KOMATSU FEMALE SWIVEL | 9327   | 69   |           |      |        |      |            |      |
| METRIC FEMALE X METRIC FEMALE SOLID    | 9043M  | 58   |           |      |        |      |            |      |
| METRIC FEMALE X NPT FEMALE SOLID       | 9643   | 73   |           |      |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# QUICK REFERENCE

## STRAIGHT FITTINGS - OTHER/MISC

| DESCRIPTIONS                              | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BRASS COMPRESSION X BSP FEMALE            |        |      |           |      | 166    | 87   |            |      |
| BRASS COMPRESSION X BSPT MALE             |        |      |           |      | 168    | 87   |            |      |
| BRASS POLYTUBE COMPR. X BSP FEMALE        |        |      |           |      | 266    | 87   |            |      |
| BRASS POLYTUBE COMPR. X BSPT MALE         |        |      |           |      | 268    | 87   |            |      |
| BRASS PUSH TO CON. X BSPT MALE            |        |      |           |      | 568    | 88   |            |      |
| BRASS PUSH TO CON. X BSPT FEMALE          |        |      |           |      | 566    | 88   |            |      |
| BRASS PUSH TO CON. FLOW VALVE X BSPT MALE |        |      |           |      | 582    | 89   |            |      |
| BSPP MALE X HOSE BARB                     | 9920   | 74   |           |      | 8920   | 93   |            |      |
| BSPP MALE X HOSE BARB (NEEDS CLAMP)       | 9921   | 74   |           |      |        |      |            |      |
| BSPP FEMALE SWIVEL X HOSE BARB            | 9900   | 73   | SS9900    | 86   | 8900   | 92   |            |      |
| BSPT MALE X HOSE BARB                     | 9915   | 73   | SS9915    | 86   | 8920T  | 93   |            |      |
| JIC MALE X DIN STANDPIPE                  | 9200   | 64   | SS9200    | 85   |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

## 45° ELBOWS

| DESCRIPTIONS                          | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---------------------------------------|--------|------|-----------|------|--------|------|------------|------|
|                                       | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSPP MALE X BSPP MALE ADJ.            | 9051   | 58   |           |      |        |      |            |      |
| BSPP MALE X BSPP FEMALE SWIVEL        | 9048   | 58   |           |      |        |      |            |      |
| BSPP MALE X BSPP FEMALE SWIVEL (TUBE) | 9047   | 58   |           |      |        |      |            |      |
| BSPP MALE X BSPT MALE                 | 9054   | 59   |           |      |        |      |            |      |
| BSP FEMALE X BSP FEMALE SOLID         |        |      |           |      |        |      | B2404      | 95   |
| BSPP FEMALE X BSPP FEMALE SWIVEL      | 9053   | 59   |           |      |        |      |            |      |
| BSPP FEMALE X HOSE BARB SWIVEL        | 9905   | 73   |           |      |        |      |            |      |
| BSPT MALE X BSP FEMALE                |        |      |           |      |        |      | B2804      | 95   |
| DIN MALE X BSPP MALE ADJ.             | 5058   | 34   |           |      |        |      |            |      |
| DIN MALE X DIN FEMALE                 | 5362   | 43   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE ADJ.           | 5066   | 35   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE ADJ.             | 9058   | 59   | SS9058    | 84   |        |      |            |      |
| JIC MALE X BSPP FEMALE SWIVEL         | 9260   | 68   |           |      |        |      |            |      |
| JIC MALE X BSPT MALE                  | 9064   | 60   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE ADJ.           | 9066   | 60   |           |      |        |      |            |      |
| JIS MALE X BSPT MALE                  | 9225   | 65   |           |      |        |      |            |      |
| JIS MALE X JIS FEMALE SWIVEL          | 9294   | 68   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE ADJ.            | 6058   | 45   |           |      |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# QUICK REFERENCE

## 90° ELBOWS

| DESCRIPTIONS                                  | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BRASS COMPRESSION X BSPT MALE                 |        |      |           |      | 169    | 87   |            |      |
| BRASS POLYTUBE COMPR. X BSP FEMALE            |        |      |           |      | 270    | 88   |            |      |
| BRASS POLYTUBE COMPR. X BSPT MALE             |        |      |           |      | 269    | 87   |            |      |
| BRASS PUSH TO CON. X BSPT MALE                |        |      |           |      | 569    | 88   |            |      |
| BRASS PUSH TO CON. X BSPT MALE BANJO          |        |      |           |      | 569BJ  | 88   |            |      |
| BRASS PUSH TO CON. X BSPT MALE METERING VALVE |        |      |           |      | 581    | 89   |            |      |
|   |        |      |           |      |        |      |            |      |
| BSPP MALE X BSPP MALE                         | 9055   | 59   |           |      |        |      |            |      |
| BSPP MALE X BSPP MALE ADJ.                    | 9052   | 59   |           |      |        |      |            |      |
| BSPP MALE X BSPP FEMALE SWIVEL                | 9060   | 60   |           |      |        |      |            |      |
| BSPP MALE X BSPP FEMALE SWIVEL (TUBE)         | 9045   | 58   |           |      |        |      |            |      |
| BSPP MALE ADJ. X BSPP FEMALE SWIVEL           | 9046   | 58   |           |      |        |      |            |      |
| BSPP MALE X BSPT MALE                         | 9057   | 59   |           |      |        |      |            |      |
| BSPP MALE X HOSE BARB BANJO                   | 3059HB | 29   |           |      |        |      |            |      |
| BSPP MALE X JIC FEMALE SWIVEL                 | 9061   | 60   |           |      |        |      |            |      |
| BSPP MALE X NPT MALE                          | 9070   | 61   |           |      |        |      |            |      |
| BSPP MALE ADJ. X NPT FEMALE                   | 9135   | 63   |           |      |        |      |            |      |
| BSPP MALE X ORB MALE ADJ.                     | 9077   | 62   |           |      |        |      |            |      |
|   |        |      |           |      |        |      |            |      |
| BSP FEMALE X BSP FEMALE SOLID                 | 9076   | 62   |           |      | 8075   | 92   | B3404      | 95   |
| BSPP FEMALE X BSPP FEMALE SWIVEL              | 9075   | 61   |           |      |        |      |            |      |
| BSPP FEMALE X BSPP FEMALE SWIVEL (TUBE)       | 9050   | 58   |           |      |        |      |            |      |
| BSPP FEMALE X HOSE BARB SWIVEL                | 9910   | 73   |           |      |        |      |            |      |
|   |        |      |           |      |        |      |            |      |
| BSPT MALE X BSP FEMALE SOLID                  |        |      |           |      | 8060   | 92   | B3804      | 95   |
| BSPT MALE X BSPP FEMALE SWIVEL                | 9062   | 60   |           |      |        |      |            |      |
| BSPT MALE X BSPT MALE                         |        |      |           |      | 8055   | 91   |            |      |
| BSPT MALE X BSPT FEMALE                       |        |      |           |      |        |      | B3804      | 95   |

## 90° ELBOWS

| DESCRIPTIONS                         | STEEL   |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|--------------------------------------|---------|------|-----------|------|--------|------|------------|------|
|                                      | SERIES  | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| DIN MALE X BSPP MALE ADJ.            | 5059    | 35   | SS5059    | 77   |        |      |            |      |
| DIN MALE X BSPP MALE BANJO           | 3059    | 29   |           |      |        |      |            |      |
| DIN MALE X BSPP MALE ES SEAL BANJO   | 5059BJ  | 34   |           |      |        |      |            |      |
| DIN MALE X BSPT MALE                 | 5063    | 35   |           |      |        |      |            |      |
| DIN MALE X DIN MALE                  | 5055    | 34   | SS5055    | 77   |        |      |            |      |
| DIN MALE X DIN MALE BULKHEAD         | 5042    | 34   | SS5042    | 77   |        |      |            |      |
| DIN MALE X DIN FEMALE                | 5360    | 42   | SS5360    | 80   |        |      |            |      |
| DIN MALE X METRIC MALE ADJ.          | 5069    | 36   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE BANJO         | 3069DIN | 30   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE ES SEAL BANJO | 5069BJ  | 36   |           |      |        |      |            |      |
| DIN MALE X METRIC TAPER MALE         | 5069LLT | 36   |           |      |        |      |            |      |
| DIN MALE X NPT MALE                  | 5070    | 37   |           |      |        |      |            |      |
| DIN MALE X ORB MALE ADJ.             | 5077    | 37   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE                 | 9065    | 60   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE ADJ.            | 9059    | 59   | SS9059    | 84   |        |      |            |      |
| JIC MALE X BSPP MALE ADJ. LONG       | 9059L   | 60   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE BANJO           | 3059    | 29   |           |      |        |      |            |      |
| JIC MALE X BSPP FEMALE SWIVEL        | 9056    | 59   | SS9056    | 84   |        |      |            |      |
| JIC MALE X BSPP FEMALE SWIVEL (TUBE) | 9250    | 67   |           |      |        |      |            |      |
| JIC MALE X BSPT MALE                 | 9063    | 60   | SS9063    | 85   |        |      |            |      |
| JIC MALE X DIN FEMALE SWIVEL         | 9199    | 64   |           |      |        |      |            |      |
| JIC MALE X JIC FEMALE SWIVEL         | 3705    | 44   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE ADJ.          | 9069    | 61   | SS9069    | 85   |        |      |            |      |
| JIC MALE X METRIC MALE ADJ. LONG     | 9069L   | 61   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE BANJO         | 3069    | 30   |           |      |        |      |            |      |
| JIC MALE X UNF MALE BANJO            | 3049    | 29   |           |      |        |      |            |      |
| JIC FEMALE X JIC FEMALE SWIVEL       | 9355    | 69   |           |      |        |      |            |      |

# QUICK REFERENCE

## 90° ELBOWS

| DESCRIPTIONS                         | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|--------------------------------------|--------|------|-----------|------|--------|------|------------|------|
|                                      | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| JIS MALE X BSPP MALE ADJ.            | 9259   | 68   |           |      |        |      |            |      |
| JIS MALE X BSPT MALE                 | 9224   | 65   |           |      |        |      |            |      |
| JIS MALE X JIS FEMALE SWIVEL         | 9292   | 68   |           |      |        |      |            |      |
| JIS MALE X ORB MALE ADJ.             | 9278   | 68   |           |      |        |      |            |      |
| KOMATSU MALE X KOMATSU FEMALE SWIVEL | 9392   | 69   |           |      |        |      |            |      |
| METRIC MALE X HOSE BARB BANJO        | 3069HB | 30   |           |      |        |      |            |      |
| NPT MALE X BSPP FEMALE SWIVEL        | 9072   | 61   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE ADJ.           | 6059   | 45   |           |      |        |      |            |      |
| ORFS MALE X METRIC MALE ADJ.         | 6069   | 45   |           |      |        |      |            |      |
| WELD (INCH) X UNF BANJO BODY         | 3049W  | 29   |           |      |        |      |            |      |
| WELD (METRIC) X METRIC BANJO BODY    | 3069W  | 30   |           |      |        |      |            |      |

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT



## PLUGS & CAPS

| DESCRIPTIONS                            | STEEL     |      | STAINLESS |      | BRASS   |      | BLACK PIPE |      |
|---|-----------|------|-----------|------|---------|------|------------|------|
|   | SERIES    | PAGE | SERIES    | PAGE | SERIES  | PAGE | SERIES     | PAGE |
| BSPP SOLID CAP                          | 9033F     | 55   |           |      | 8033    | 90   | B14C       | 94   |
| BSPP SWIVEL CAP                         | 9033      | 55   | SS9033    | 83   |         |      |            |      |
| DIN TUBE CAP                            | 5204      | 40   | SS5204    | 79   |         |      |            |      |
| DIN TUBE BLANKING PLUG FOR DIN NUT      | 5204P     | 40   | SS5204P   | 79   |         |      |            |      |
| JIS SWIVEL CAP                          | 9222      | 65   |           |      |         |      |            |      |
| KOBELCO SWIVEL CAP                      | 9249      | 67   |           |      |         |      |            |      |
| KOMATSU SWIVEL CAP                      | 9232      | 66   |           |      |         |      |            |      |
| BSPP PLUG                               | 9030      | 54   | SS9030    | 83   |         |      |            |      |
| BSPP COUNTERSUNK SEALED PLUG            | 9028      | 53   | SS9028    | 83   | 8028    | 90   |            |      |
| BSPT PLUG                               | 9030T     | 54   | SS9030T   | 83   |         |      | B18SQP     | 95   |
| BSPT COUNTERSUNK PLUG                   | 9030TCSP  | 54   |           |      | 8030CSP | 90   |            |      |
| DIN TUBE PLUG                           | 5203      | 40   | SS5203    | 78   |         |      |            |      |
| DIN TUBE (JSW) PLUG                     | 9246      | 67   |           |      |         |      |            |      |
| JIS PLUG                                | 9221      | 65   |           |      |         |      |            |      |
| KOBELCO TUBE PLUG                       | 9248      | 67   |           |      |         |      |            |      |
| KOMATSU PLUG                            | 9231      | 66   |           |      |         |      |            |      |
| METRIC PLUG                             | 9030M     | 54   |           |      |         |      |            |      |
| METRIC COUNTERSUNK SEALED PLUG          | 9029      | 54   | SS9029    | 83   |         |      |            |      |
| METRIC COUNTERSUNK PLUG (NO SEAL)       | 9029A     | 54   |           |      |         |      |            |      |
| METRIC ISO 6149 COUNTERSUNK SEALED PLUG | 9030M-ISO | 54   |           |      |         |      |            |      |

# QUICK REFERENCE

## INSTRUCTIONS FOR TEES, CROSSES, AND TEST PORT TEES

### Tees & Crosses:

These are described as fittings with entirely identical threads (3 for tees, 4 for crosses). They are all the same gender and thread type. For example, a Male BSPP Tee is a fitting with 3 identical male BSPP threads, while a Female BSPP Cross has 4 identical female BSPP threads.

### Branch Tees & Run Tees:

Branch Tees are 3 ended fittings with the common threads located straight across from one another, while Run Tees have the common threads located at 90° from each other. The rules for listing both branch and run tees are the same: if there is one thread type only, the part is usually listed by the odd thread gender first. For example, a Female JIS Run Tee has 2 male threads and one female (all JIS). Alternatively, if there are 2 thread types, the common threads are listed first, then the odd end (with gender reference). For example, a Male JIC X Male BSPT Run Tee has 2 male JIC threads and one male BSPT thread.

### Test Port Tees:

Test port tees are not conversion adapters, rather they are meant to be placed in line with your current hydraulic system allowing for the implementation of a pressure gauge, for example. They usually consist of a male and female thread (swivel) that are always identical thread types. Test port thread types and sizes vary from fitting to fitting but are always female.

## TEES, CROSSES, TEST PORT TEES

| DESCRIPTIONS                                      | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BRASS COMPRESSION X BSPT MALE RUN TEE             |        |      |           |      | 171    | 87   |            |      |
| BRASS COMPRESSION X BSPT MALE BRANCH TEE          |        |      |           |      | 172    | 87   |            |      |
| BRASS POLYTUBE COMPRESSION X BSPT MALE RUN TEE    |        |      |           |      | 271    | 88   |            |      |
| BRASS POLYTUBE COMPRESSION X BSPT MALE BRANCH TEE |        |      |           |      | 272    | 88   |            |      |
| BRASS PUSH TO CONNECT X BSPT MALE RUN TEE         |        |      |           |      | 571    | 89   |            |      |
| BRASS PUSH TO CONNECT X BSPT MALE BRANCH TEE      |        |      |           |      | 572    | 89   |            |      |
| BRASS PUSH TO CONNECT X BSPT MALE BRANCH "Y"      |        |      |           |      | 575    | 89   |            |      |

## TEES, CROSSES, TEST PORT TEES

| DESCRIPTIONS                            | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSPP MALE TEE                           | 9080   | 62   |           |      |        |      |            |      |
| BSPP MALE CROSS                         | 9096   | 63   |           |      |        |      |            |      |
| BSPP MALE RUN TEE                       | 9095   | 63   |           |      |        |      |            |      |
| BSPP MALE ADJ. RUN TEE                  | 9151   | 63   |           |      |        |      |            |      |
| BSPP MALE ADJ. BRANCH TEE               | 9152   | 63   |           |      |        |      |            |      |
| BSPP MALE X BSPP MALE TEST PORT TEE     | 9000TP | 47   |           |      |        |      |            |      |
| BSPP TEST PORT TEE                      | 9015TP | 51   |           |      |        |      |            |      |
| BSPP MALE X ORB MALE ADJ. RUN TEE       | 9078   | 62   |           |      |        |      |            |      |
| BSPP MALE X ORB MALE ADJ. BRANCH TEE    | 9079   | 62   |           |      |        |      |            |      |
| BSPP FEMALE SOLID TEE                   | 9086   | 62   |           |      | 8085   | 92   | B4444      | 95   |
| BSPP FEMALE SWIVEL TEE                  | 9085   | 62   |           |      |        |      |            |      |
| BSPP FEMALE SOLID CROSS                 | 9097   | 63   |           |      | 8097   | 92   |            |      |
| BSPP FEMALE SWIVEL RUN TEE              | 9090   | 63   |           |      |        |      |            |      |
| BSPP FEMALE SWIVEL BRANCH TEE           | 9087   | 62   |           |      |        |      |            |      |
| BSP FEMALE SOLID X BSPT MALE RUN TEE    |        |      |           |      | 8095   | 92   |            |      |
| BSP FEMALE SOLID X BSPT MALE BRANCH TEE |        |      |           |      | 8093   | 92   |            |      |
| BSPT MALE TEE                           |        |      |           |      | 8080   | 92   |            |      |
| DIN MALE TEE                            | 5080   | 37   | SS5080    | 78   |        |      |            |      |
| DIN MALE CROSS                          | 5096   | 38   |           |      |        |      |            |      |
| DIN MALE X BSPP MALE ADJ. RUN TEE       | 5158   | 38   |           |      |        |      |            |      |
| DIN MALE X BSPP MALE ADJ. BRANCH TEE    | 5159   | 38   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE ADJ. RUN TEE     | 5168   | 38   |           |      |        |      |            |      |
| DIN MALE X METRIC MALE ADJ. BRANCH TEE  | 5169   | 39   |           |      |        |      |            |      |
| DIN MALE X ORB MALE ADJ. RUN TEE        | 5178   | 39   |           |      |        |      |            |      |
| DIN MALE X ORB MALE ADJ. BRANCH TEE     | 5179   | 39   |           |      |        |      |            |      |
| DIN FEMALE SWIVEL RUN TEE               | 5390   | 43   | SS5390    | 80   |        |      |            |      |
| DIN FEMALE SWIVEL BRANCH TEE            | 5387   | 43   | SS5387    | 80   |        |      |            |      |

# QUICK REFERENCE

## TEES, CROSSES, TEST PORT TEES

| DESCRIPTIONS                            | STEEL  |      | STAINLESS |      | BRASS  |      | BLACK PIPE |      |
|---|--------|------|-----------|------|--------|------|------------|------|
|   | SERIES | PAGE | SERIES    | PAGE | SERIES | PAGE | SERIES     | PAGE |
| JIC MALE X BSPP MALE ADJ. RUN TEE       | 9158   | 63   |           |      |        |      |            |      |
| JIC MALE X BSPP MALE ADJ. BRANCH TEE    | 9159   | 64   |           |      |        |      |            |      |
| JIC MALE X BSPT MALE RUN TEE            | 9163   | 64   |           |      |        |      |            |      |
| JIC MALE X BSPT MALE BRANCH TEE         | 9164   | 64   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE ADJ. RUN TEE     | 9168   | 64   |           |      |        |      |            |      |
| JIC MALE X METRIC MALE ADJ. BRANCH TEE  | 9169   | 64   |           |      |        |      |            |      |
| JIC FEMALE SWIVEL TEE                   | 9555   | 71   |           |      |        |      |            |      |
| JIC FEMALE RUN TEE                      | 4757   | 44   |           |      |        |      |            |      |
| JIC FEMALE BRANCH TEE                   | 4775   | 44   |           |      |        |      |            |      |
| JIC TEST PORT TEE                       | 9020TP | 52   |           |      |        |      |            |      |
| JIS FEMALE RUN TEE                      | 9291   | 68   |           |      |        |      |            |      |
| JIS TEST PORT TEE                       | 9293TP | 68   |           |      |        |      |            |      |
| KOMATSU FEMALE RUN TEE                  | 9391   | 69   |           |      |        |      |            |      |
| KOMATSU TEST PORT TEE                   | 9634TP | 72   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE ADJ. RUN TEE      | 6158   | 45   |           |      |        |      |            |      |
| ORFS MALE X BSPP MALE ADJ. BRANCH TEE   | 6159   | 46   |           |      |        |      |            |      |
| ORFS MALE X METRIC MALE ADJ. RUN TEE    | 6168   | 46   |           |      |        |      |            |      |
| ORFS MALE X METRIC MALE ADJ. BRANCH TEE | 6169   | 46   |           |      |        |      |            |      |

**COMPONENTS (BOLTS, NUTS, O-RINGS, RINGS, SEALS, SEATS, WASHERS)**

| DESCRIPTIONS                              | STEEL      |      | STAINLESS  |      | BRASS  |      | BLACK PIPE |      |
|---|------------|------|------------|------|--------|------|------------|------|
|   | SERIES     | PAGE | SERIES     | PAGE | SERIES | PAGE | SERIES     | PAGE |
| BSPP BANJO BOLT                           | 3002       | 29   |            |      |        |      |            |      |
| BSPP DOUBLE BANJO BOLT                    | 3002DB     | 29   |            |      |        |      |            |      |
| METRIC BANJO BOLT                         | 3068       | 29   |            |      |        |      |            |      |
| METRIC DOUBLE BANJO BOLT                  | 3068DB     | 30   |            |      |        |      |            |      |
| UNF BANJO BOLT                            | 3048       | 29   |            |      |        |      |            |      |
| BSPP BULKHEAD NUT                         | 9041       | 57   | SS9041     | 84   |        |      |            |      |
| DIN TUBE NUT                              | 5201       | 39   | SS5201     | 78   |        |      |            |      |
| DIN TUBE BLANKING PLUG FOR NUT            | 5204P      | 40   | SS5204P    | 79   |        |      |            |      |
| METRIC BULKHEAD NUT                       | 5041       | 33   |            |      |        |      |            |      |
| BSPP O-RING                               | OR         | 74   |            |      |        |      |            |      |
| METRIC O-RING                             | OR-MM      | 75   |            |      |        |      |            |      |
| ORB O-RING                                | OR SAE     | 75   |            |      |        |      |            |      |
| ORFS O-RING                               | ORFS       | 75   |            |      |        |      |            |      |
| BSPP RETAINING RING                       | RR         | 75   | SSRR       | 86   |        |      |            |      |
| DIN TUBE CUTTING RING                     | 5202       | 40   | SS5202     | 78   |        |      |            |      |
| METRIC RETAINING RING                     | RR-MM      | 75   |            |      |        |      |            |      |
| BSPP ES SEAL                              | ESB        | 74   |            |      |        |      |            |      |
| METRIC ES SEAL                            | ESM        | 74   |            |      |        |      |            |      |
| 24° TO GB 37°/74° CONVERSION SEAT         | 5333       | 42   |            |      |        |      |            |      |
| 24° TO GB FACE SEAL CONVERSION SEAT       | 5333FF     | 42   |            |      |        |      |            |      |
| 30° TO GB 37°/74° CONVERSION SEAT         | 9333       | 69   |            |      |        |      |            |      |
| 30° TO GB FACE SEAL CONVERSION SEAT       | 9333FF     | 69   |            |      |        |      |            |      |
| HIAB CONVERSION SEAT                      | 9777       | 73   |            |      |        |      |            |      |
| JIS CONVERSION SEAT                       | 9999       | 74   |            |      |        |      |            |      |
| BSPP BONDED WASHER                        | 9500       | 70   | SS9500     | 85   |        |      |            |      |
| BSPP BONDED WASHER (NON SELF CENTERING)   | 9500NSC    | 70   |            |      |        |      |            |      |
| BSPP BONDED WASHER VITON                  | 9500-V     | 70   | SS9500-V   | 85   |        |      |            |      |
| BSPP COPPER WASHER BANJO                  | 3500       | 30   |            |      |        |      |            |      |
| METRIC BONDED WASHER                      | 9500MM     | 70   | SS9500MM   | 85   |        |      |            |      |
| METRIC BONDED WASHER (NON SELF CENTERING) | 9500MM-NSC | 70   |            |      |        |      |            |      |
| METRIC BONDED WASHER VITON                | 9500MM-V   | 70   | SS9500MM-V | 86   |        |      |            |      |
| METRIC COPPER WASHER BANJO                | 3500MM     | 30   |            |      |        |      |            |      |

# ABOUT

Adaptall was founded in 1985 with the intent to supply the North American hose and fitting Distributor market with high quality Metric and British adapters, in steel, stainless steel and brass.

We have grown to include multiple locations in Canada and the USA, including a CNC manufacturing facility, in order to meet the many unique needs of our valued customers.

We pride ourselves on providing industry leading customer service, and the largest inventory of Metric and British Adapters in North America via same day shipping.

## TERMS & CONDITIONS

- Prices subject to change without prior notice.
- F.O.B. our plant.
- All taxes and government surcharges are extra where applicable.
- No returns without prior written consent (see Returns Policy).
- All sales to U.S. customers are payable in USD funds.
- All sales to Canadian customers are payable in CAD funds.
- All sales to International customers are payable in USD funds.

## WARRANTY

Adaptall warrants its products to be free of defects in material and workmanship. No warranty of merchantability or other warranty, express or implied, is made. Liability for and the exclusive remedy for defective materials or workmanship is limited to replacement or repair of defective products returned within 60 days after receipt. No allowance will be made for repairs performed by the purchaser or on their order. Adaptall is not liable for consequential or other damages or any expense incurred through the use of its products. All design and dimensional data are subject to change without notice. Working pressures, torque settings, corrosion data and other technical information have been prepared from actual test results and other data considered to be reliable. However, no responsibility can be assumed for the accuracy of this information under varied field conditions and should be considered as a recommendation only and not a guarantee.

## CERTIFICATIONS

- ISO 9001:2015
- C-TPAT & PIP

## COMPLIANCES

- Buy America Act / American Reinvestment and Recovery Act of 2009 (ARRA)
- Proposition 65 (California)
- RoHS 2 & 3

## FITTING STANDARDS

- BSPP (ISO: 1179-1, 1179-2, 1179-3, 8434-6)
- BSPT (ISO 7)
- DIN TUBE (DIN: 2353, 3861, ISO 8434-1)
- JIC (ISO 8434-2, SAE J514)
- JIS (JIS B 0202)
- METRIC (DIN 7647, GB 37/74, GB FFace, ISO: 6149, 9974-1, 9974-2, 9974-4)
- NPT (ANSI B1.20.3)
- ORB (ISO 11926, SAE J1926)
- ORFS (ISO 8434-3, SAE J1453)

## ZINC PLATING SPECIFICATIONS (STEEL PARTS)

- Plating in accordance with ASTM B633-15
- Type Fe/Zn 8 Class V with clear coat
- Electro-Deposited Zinc coating with minimum thickness of 8 microns (0.0003")
- Compliant: OSHA (USA), CCOHS (Canada) and RoHS (European Union)
- Zinc coating does NOT contain hexavalent chromate

## MATERIAL SPECIFICATIONS

### Brass

- North American products: C36000
- European products: OT UNI EN 12164/5 CW 614/7N

### Carbon steel

- European & North American products: C12L14
- Asian products: GB/T 699-2015

### Stainless steel

- SS DIN tube fittings: SS316
- Standard SS fittings: SS316

### O-rings

- Nitrile (NBR) 70-90 durometer
- Viton 75-90 durometer

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

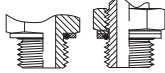



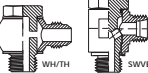
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

# TORQUE SPECIFICATION CHARTS






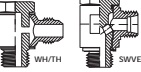
## BSPP Port – Torque Settings

|                  |           | Retaining Ring & O-Ring   |               | ED/ES Seal  |               | Bonded Washer   | Cutting Face  | Banjo  |                     |                 |
|------------------|-----------|---|---------------|---|---------------|---|---|--|---------------------|-----------------|
|                  |           |  |               |  |               |  |  |  |                     |                 |
|                  | Dash Size | Inch Thread Size-TPI  | Straight (Nm) | Adjustable (Nm)   | Straight (Nm) | Plugs (Nm)  | Straight (Nm)   | Straight (Nm)  | With Copper Washers | With Soft Seals |
| Light Series (L) | 02        | 1/8-28  | 18            | 18  | 18            | 13  | 9   | 18   | 18                  | 18              |
|                  | 04        | 1/4-19  | 35            | 35  | 35            | 30  | 35  | 35   | 45                  | 40              |
|                  | 06        | 3/8-19  | 70            | 70  | 70            | 60  | 45  | 70   | 70                  | 65              |
|                  | 08        | 1/2-14  | 90            | 110   | 90            | 80  | 65  | 100  | 120                 | 90              |
|                  | 12        | 3/4-14  | 180           | 180   | 180           | 140   | 90  | 180  | 230                 | 125             |
|                  | 16        | 1-11.5  | 310           | 310   | 310           | 200   | 150   | 330  | 320                 |                 |
|                  | 20        | 1-1/4-11.5  | 450           | 450   | 450           | 400   | 240   | 540  | 540                 |                 |
|                  | 24        | 1-1/2-11.5  | 540           | 540   | 540           | 450   | 290   | 630  | 700                 |                 |
| Heavy Series (S) | 02        | 1/8-28  |               | 25  |               |   |   |  |                     |                 |
|                  | 04        | 1/4-19  |               | 55  | 40            |   | 35  | 55   | 45                  | 40              |
|                  | 06        | 3/8-19  |               | 90  | 80            |   | 45  | 90   | 70                  | 65              |
|                  | 08        | 1/2-14  |               | 110   | 115           |   | 65  | 130  | 120                 | 90              |
|                  | 12        | 3/4-14  |               | 115   | 180           |   | 90  | 270  | 230                 | 125             |
|                  | 16        | 1-11.5  |               | 420   | 310           |   | 150   | 340  | 320                 |                 |
|                  | 20        | 1-1/4-11.5  |               | 550   | 450           |   | 240   | 540  | 540                 |                 |
|                  | 24        | 1-1/2-11.5  |               | 600   | 540           |   | 290   | 700  | 700                 |                 |

## DIN DKO Swivel - Torque Settings

|              | Thread Size Mm | Tube Size | DIN DKO Swivel (Nm) |
|--------------|----------------|-----------|---------------------|
| L Light Duty | 12             | L06       | 16                  |
|              | 14             | L08       | 16                  |
|              | 16             | L10       | 26                  |
|              | 18             | L12       | 37                  |
|              | 22             | L15       | 47                  |
|              | 26             | L18       | 89                  |
|              | 30             | L22       | 116                 |
|              | 36             | L28       | 137                 |
| S Heavy Duty | 45             | L35       | 226                 |
|              | 52             | L42       | 347                 |
|              | 14             | S06       | 26                  |
|              | 16             | S08       | 42                  |
|              | 18             | S10       | 53                  |
|              | 20             | S12       | 63                  |
|              | 22             | S14       | 79                  |
|              | 24             | S16       | 84                  |
| 30           | S20            | 126       |                     |
| 36           | S25            | 179       |                     |
| 42           | S30            | 263       |                     |
| 52           | S38            | 368       |                     |

## Metric Port – Torque Settings

|                  |                | Retaining Ring & O-Ring   |                 | ED/ES Seal  |            | ISO 6149  | Bonded Washer   | Cutting Face  | Banjo  |                 |
|------------------|----------------|---|-----------------|---|------------|---|---|---|--|-----------------|
|                  |                |  |                 |  |            |  |  |  |  |                 |
|                  | Thread Size mm | Straight (Nm)   | Adjustable (Nm) | Straight (Nm)   | Plugs (Nm) | Straight & Adjustable (Nm)  | Straight (Nm)   | Straight (Nm)   | With Copper Washers  | With Soft Seals |
| Light Series (L) | 12             | 25  | 25              | 25  | 25         | 25  | 20  | 30  | 45   | 35              |
|                  | 14             | 40  | 40              | 45  | 35         | 35  | 35  | 45  | 55   | 50              |
|                  | 16             | 55  | 55              | 55  | 55         | 40  | 45  | 65  | 80   | 60              |
|                  | 18             | 70  | 70              | 70  | 65         | 45  | 55  | 80  | 100  | 80              |
|                  | 22             | 90  | 90              | 125   | 90         | 60  | 65  | 140   | 140  | 120             |
|                  | 27             | 180   | 180             | 180   | 135        | 100   | 90  | 190   | 320  | 130             |
|                  | 33             | 310   | 310             | 310   | 225        | 160   | 150   | 340   | 360  |                 |
|                  | 42             | 450   | 450             | 450   | 360        | 210   | 240   | 500   | 540  |                 |
| Heavy Series (S) | 48             | 540   | 540             | 540   | 360        | 260   | 290   | 630   | 700  |                 |
|                  | 12             | 35  | 35              | 35  |            | 35  | 20  | 35  | 45   | 35              |
|                  | 14             | 55  | 55              | 45  |            | 45  | 35  | 55  | 55   | 50              |
|                  | 16             | 70  | 70              | 70  |            | 55  | 45  | 70  | 80   | 60              |
|                  | 18             | 90  | 90              | 90  |            | 70  | 55  | 110   | 100  | 80              |
|                  | 20             | 125   | 125             | 125   | 80         | 80  | 55  | 150   | 125  | 110             |
|                  | 22             | 135   | 135             | 135   |            | 100   | 65  | 170   | 135  | 120             |
|                  | 27             | 180   | 180             | 180   |            | 170   | 90  | 270   | 320  | 135             |
| 33               | 310            | 310   | 310             |   | 310        | 150   | 410   | 360   |  |                 |
| 42               | 450            | 450   | 450             |   | 330        | 240   | 540   | 540   |  |                 |
| 48               | 540            | 540   | 540             |   | 420        | 290   | 700   | 700   |  |                 |

## BSPP Swivel - Torque Settings

| Dash Thread Size | Inch Thread Size-Tpi | BSPP Swivel (Nm) |
|------------------|----------------------|------------------|
| 04               | 1/4-19               | 20               |
| 06               | 3/8-19               | 35               |
| 08               | 1/2-14               | 60               |
| 10               | 5/8-14               | 70               |
| 12               | 3/4-14               | 115              |
| 16               | 1-11                 | 140              |
| 20               | 1-1/4-11             | 210              |
| 24               | 1-1/2-11             | 290              |

## BSPT T.F.F.T Values

| BSPT Dash Size | Inch Thread Size-TPI | Turns From Finger Tight (T.F.F.T) |
|----------------|----------------------|-----------------------------------|
| 02             | 1/8-28               | 2 – 3                             |
| 04             | 1/4-19               | 2 – 3                             |
| 06             | 3/8-19               | 2 – 3                             |
| 08             | 1/2-14               | 2 – 3                             |
| 10             | 5/8-14               | 2 – 3                             |
| 12             | 3/4-14               | 2 – 3                             |
| 16             | 1-11                 | 1.5 – 2.5                         |
| 20             | 1-1/4-11             | 1.5 – 2.5                         |
| 24             | 1-1/2-11             | 1.5 – 2.5                         |

### Please note:

- All torque values are intended for steel fittings.
- For Brass fittings and adapters use 65 % of the torque values.
- For Stainless steel fittings and adapters, use 5% higher value than listed and lubricate threads.





ISO 9001  
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 1-800-463-8134

 1-800-994-5699

 SALES@ADAPTALL.COM

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**HOUSTON DC**  
5246 N SAM HOUSTON PKWY E  
HOUSTON, TX  
77032

**USA HQ & DC**  
9047 DUTTON DR.  
TWINSBURG, OH  
44087

**CANADA HQ & DC**  
150 BRUNEL RD.  
MISSISSAUGA, ON  
L4Z 1T5