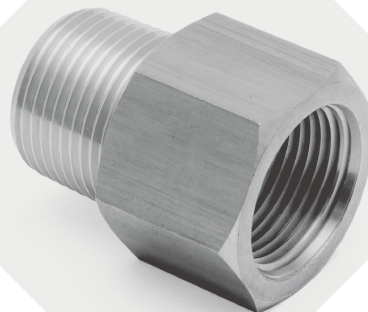
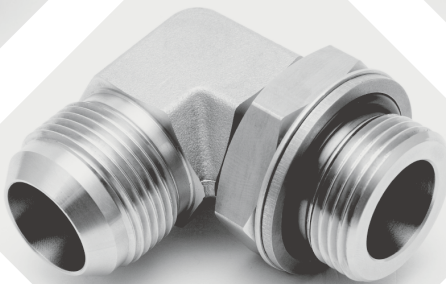


MASTER CATALOG



adaptall

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 Extra Light 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 Light 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
S Heavy Duty	42 mm	52 mm x 2.0	5201L-42	5202-42	5203L-42	5204L-42
	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

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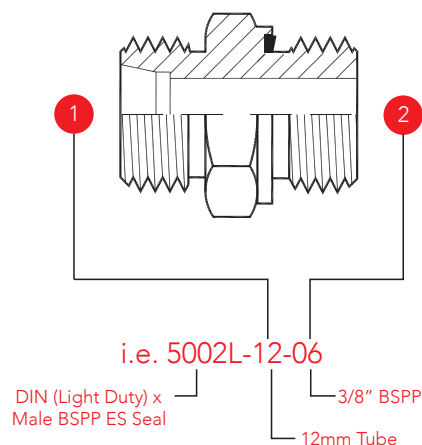
TUTORIALS TERMS & DEFINITIONS

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.

Part Numbering and Hose/Tube Side vs. Port Side

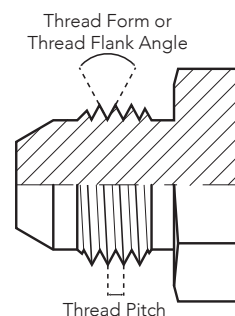
When fittings are classified or part-numbers displayed, the first group of numbers indicates the part series or group, while the dash sizes indicate the thread sizes. The sizes are usually displayed tube or hose side first, meaning that the end connecting to a hose or tube is typically listed as the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



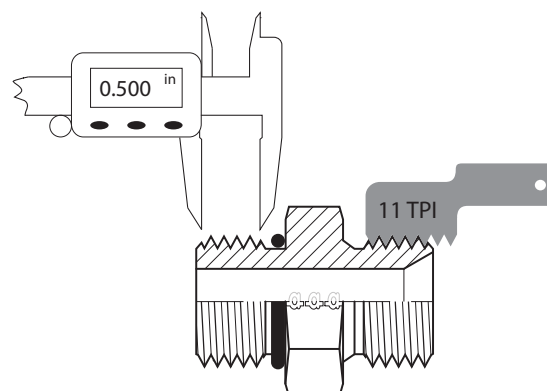
Thread Form vs. Thread Pitch vs Threads per Inch

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.

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.

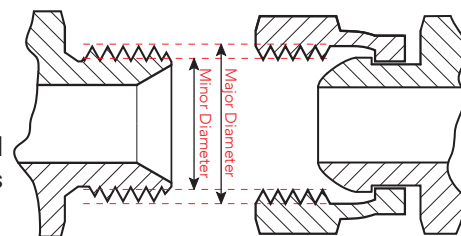


Thread Type	Thread Flank Angle	TPI vs mm Pitch
BSPP	55°	TPI
BSPT	55°	TPI
JIC	60°	TPI
JIS	55°	TPI
KOBELCO	60°	mm Pitch
KOMATSU	60°	mm Pitch
METRIC 60°	60°	mm Pitch
METRIC DIN TUBE	60°	mm Pitch
NPT	60°	TPI
ORB	60°	TPI
ORFS	60°	TPI



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 2.065" to 2.5" 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 in 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).

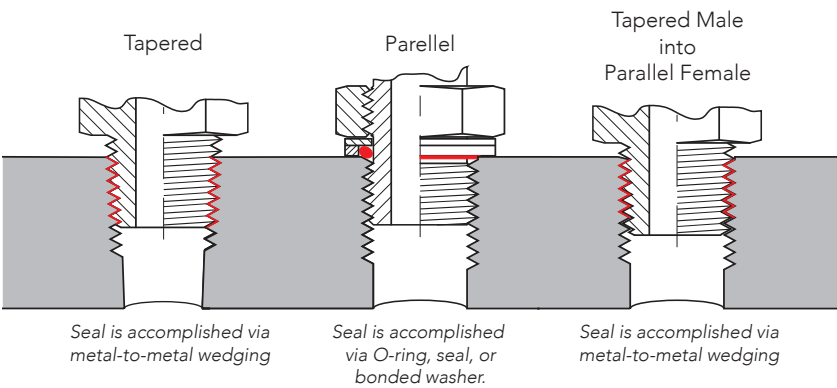
Inch Fraction	Dash Size
1/8"	02
3/16"	03
1/4"	04
5/16"	05
3/8"	06
7/16"	07
1/2"	08
5/8"	10
3/4"	12
7/8"	14
1"	16
1-1/4"	20
1-1/2"	24
2"	32
2-1/2"	40
3"	48

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

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.



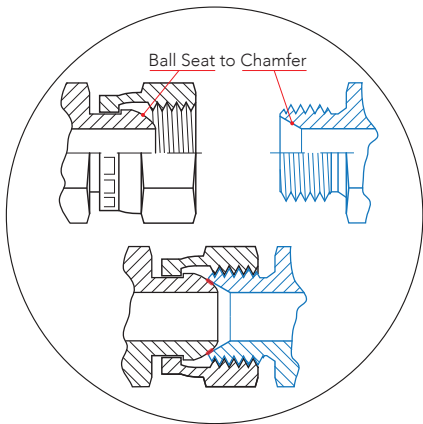
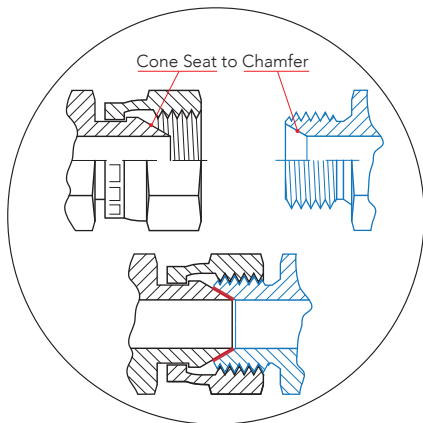
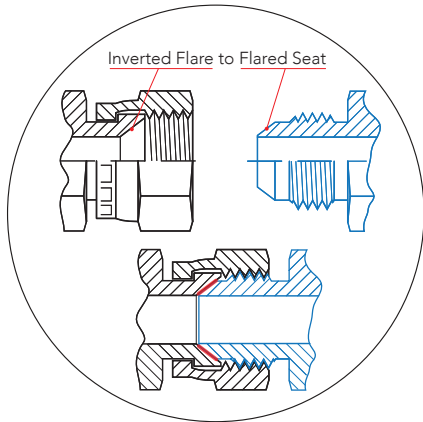
Tapered Male X Tapered Female <i>Seals via thread wedging</i>	Parallel Male X Parallel Female <i>Seals via O-ring/Bonded Seal</i>	Tapered Male X Parallel Female <i>Seals via thread wedging</i>
BSPT	BSPP	M-BSPT X F-BSPP (port/ fixed female only)
Metric Taper	Metric	M-Metric Taper X F-Metric (port/fixed 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 GB 37/74		



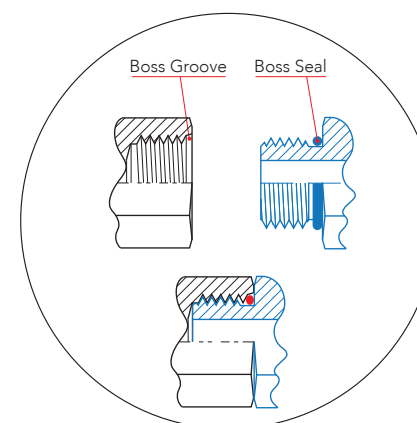
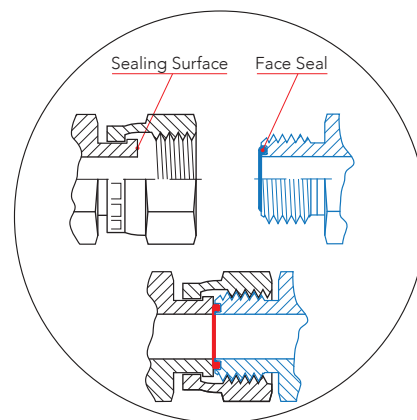
TUTORIALS SEALING METHODS

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.

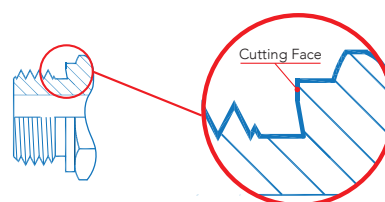
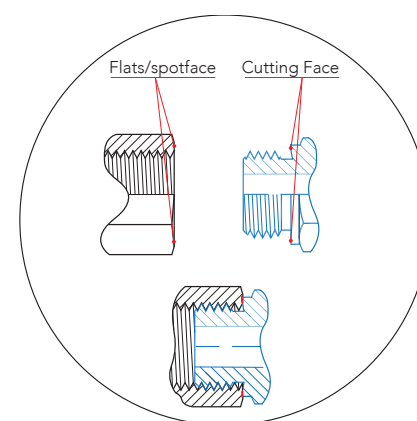
Face Seal Fitting Types	Boss Seal Fitting Types
O-ring Face Seal	SAE O-ring Boss
HIAB	Metric ISO 6141
Metric Chinese GB Face Seal	



Metal to Metal Sealing

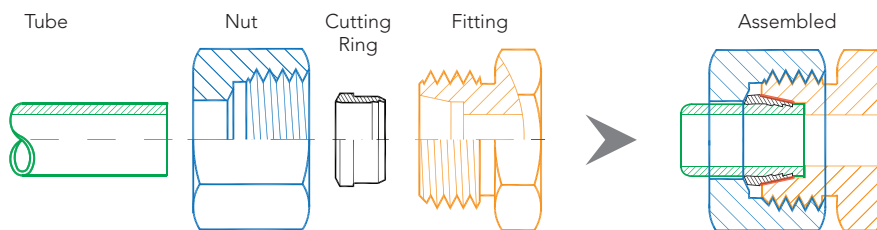
One of the rarer methods of sealing a fitting in port is Metal to Metal Sealing, also known as Cutting Face or Type B. This design creates a seal by means of a sharp "cutting face" at the base of the male thread that cuts into the flats or "spotface" surrounding the port when the fitting is threaded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



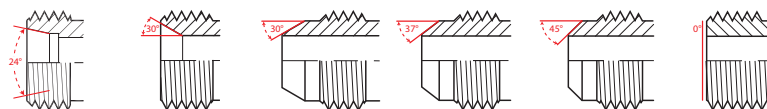
DIN 24° fittings and accessories belong to one of three **Pressure Classes**: LL series for Extra Light duty, L series for Light duty, and S series for Heavy duty applications.

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/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.

BSPP 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:

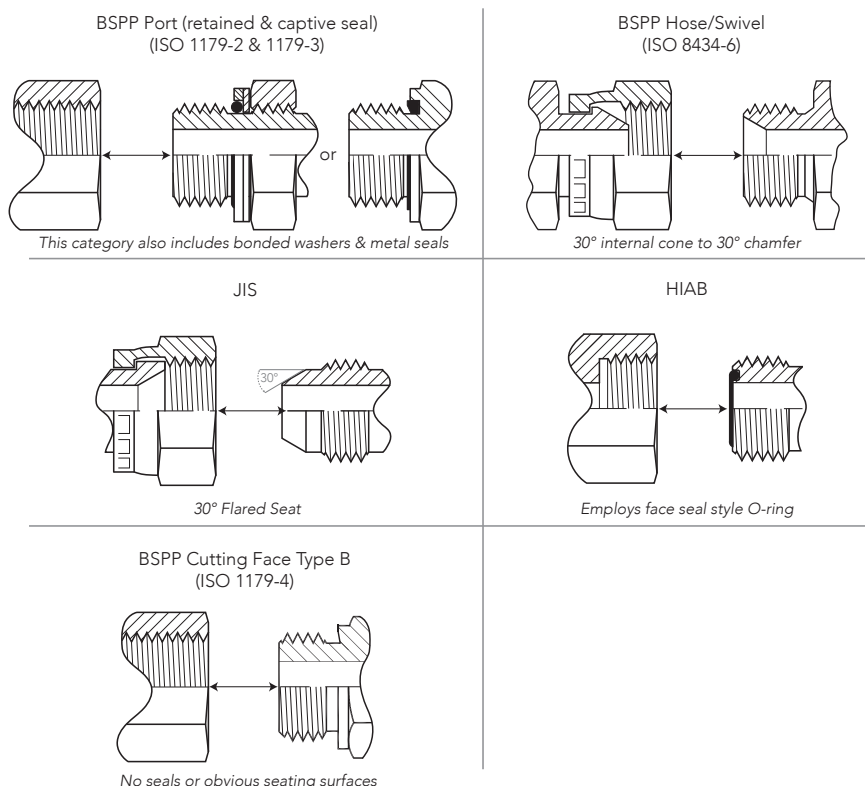
- 1) Confirm the thread is parallel or tapered.
- 2) Determine the threads per inch (TPI) count using a thread gauge or calipers.
- 3) Determine the thread O.D (male thread) or I.D (female thread) using calipers.
- 4) Find a match on the adjacent chart by combining your O.D or I.D measurement with the 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 TGK (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

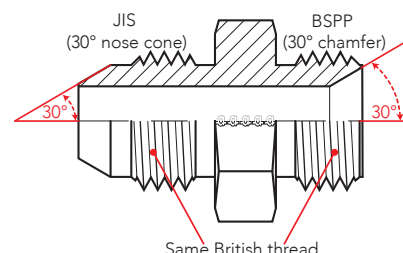
Dash Size	Nom. Size	Threads per inch (TPI)	Male Thread O.D (mm)	Male Thread O.D (inches)	Female Thread I.D (mm)	Female Thread I.D (inches)
02	1/8	28	9.6	0.38	8.6	0.34
04	1/4	19	13	0.51	11.9	0.47
06	3/8	19	16.5	0.65	15.2	0.6
08	1/2	14	20.8	0.82	19.1	0.75
10	5/8	14	22.8	0.9	20.8	0.82
12	3/4	14	26.3	1.04	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



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° flared seat on the male end, and a 30° inverted flare 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.



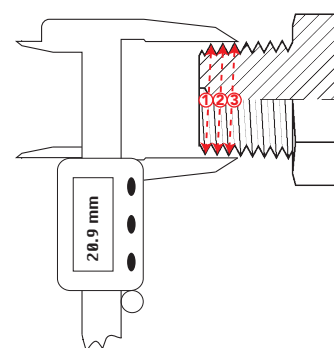
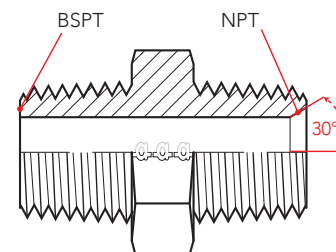
British tapered threads (BSPT)

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 TKG (thread gauge kit). See page 23.

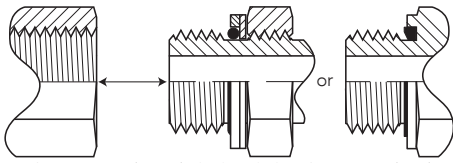
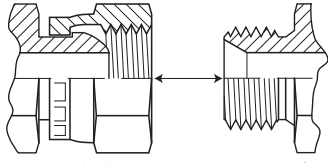
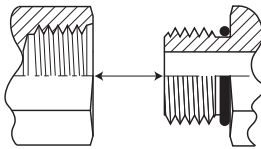
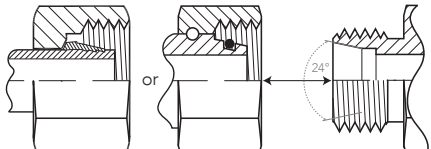
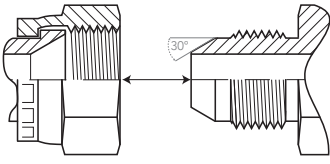
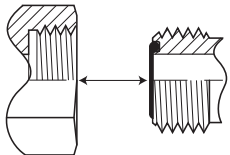
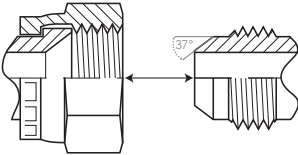
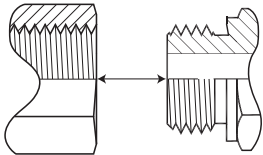
Metric Thread Specification Chart

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 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

Metric Port (retained & captive seal) (ISO 9974-1 & 9974-2)  <i>This category also includes bonded washers & metal seals</i>	Metric Hose/Swivel (DIN 7631)  <i>Spherical ball seat mates with 30° chamfer</i>
Metric Port (boss seal) (ISO 6149)  <i>Employs seal without retaining ring</i>	DIN Tube (DIN 2353 / ISO 8434-1)  <i>Kobelco = 1.5mm thread pitch in all sizes</i>
Komatsu  <i>30° Flared Seat with 1.5mm pitch in all sizes</i>	Chinese Metric Flat Face (Ref. GB/T 9065.1-2015)  <i>Employs face seal style O-ring</i>
Chinese Flared Metric 37°/74° (Ref. GB/T 9065.5-2010)  <i>37° Flared Seat</i>	Metric Cutting Face Type B (ISO 9974-3)  <i>No seals or obvious seating surfaces</i>

TUTORIALS HOW TO ID METRIC THREADS & FITTINGS

DIN Tube Fittings

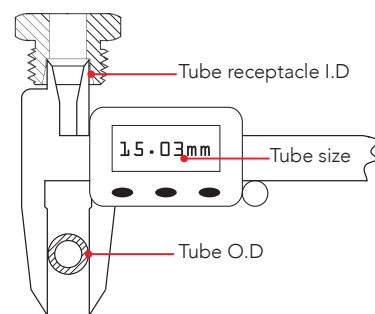
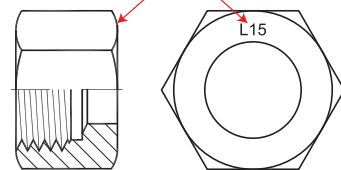
As previously mentioned, DIN tube fittings have a 24° tapered throat on the inside of the male fitting which should clearly identify it as being DIN if a Metric thread has also been identified. To identify which series and tube size the fitting belongs to, examine the tube nut: most manufacturers indicate 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 Extra Light 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 Light 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 Heavy 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

Series & size listed on nut



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

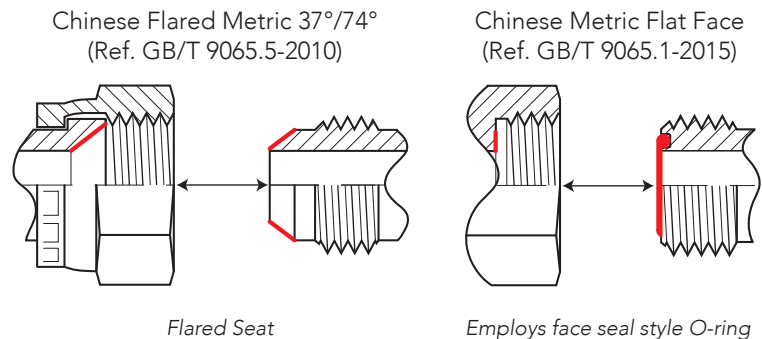
Tube Series	Tube O.D	Metric Thread Callout	Tube Nut Part #	Cutting Ring Part #	Tube Plug Part #	Tube Cap Part #
L	22 mm	30 mm x 1.5	5201L-22-30X1.5	5202-22	9248-22-30	9249-22-30
	28 mm	36 mm x 1.5	5201L-28-36X1.5	5202-28	9248-28-36	9249-28-36
	35 mm	45 mm x 1.5	5201L-35-45X1.5	5202-35	9248-35-45	9249-35-45

Komatsu Fittings

Komatsu fittings have a 1.5mm thread pitch in all sizes and seals via a 30°/60° flared 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).

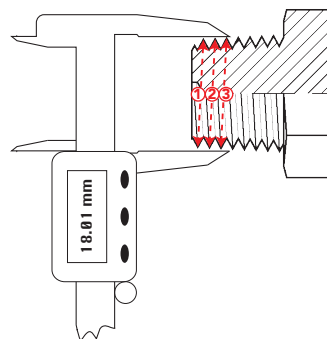
37°/74° and Flat Face Chinese Metric Fittings

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 threads 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

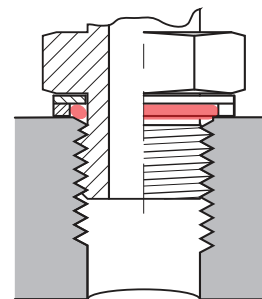
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

Installation of Non-Adjustable & Straight Port Fittings

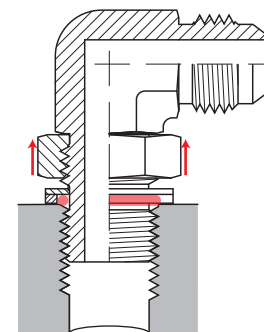
1. Observe unassembled parts, especially threads and bore to ensure it is free of foreign material, burrs, nicks, etc.
2. Make sure compound/material and hardness of O-ring are suitable for the medium type and temperature.
3. Observe O-ring for nicks or cuts and replace if any found. Never use a damaged 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.



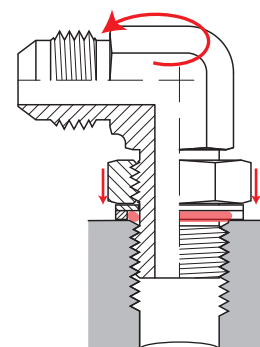
O-ring is properly installed and fitting torqued

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.



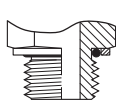
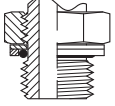
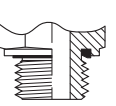
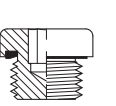
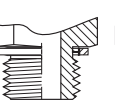
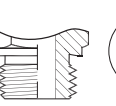
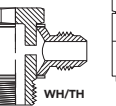
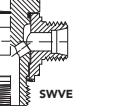
Adjustable nut and washer are backed all the way off. Fitting is threaded in until seal is touching the port. Fitting is not oriented yet.



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

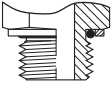
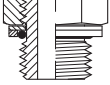
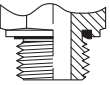
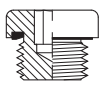
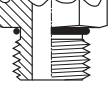
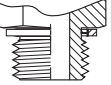
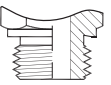
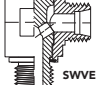
			Retaining Ring & O-Ring		ED/ES Seal		Bonded Washer	Cutting Face	Banjo	
										
	Dash Size	Inch Thread Size-TPI	Straight (Nm)	Adjustable (Nm)	Straight (Nm)	Plugs (Nm)	Straight (Nm)	Straight (Nm)	With Copper Washers	With Soft Seals
Light Series (L)	02	1/8-28	18	18	18	13	9	18	18	18
	04	1/4-19	35	35	35	30	35	35	45	40
	06	3/8-19	70	70	70	60	45	70	70	65
	08	1/2-14	90	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

		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	
	48	540	540	540	360	260	290	630	700	
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.

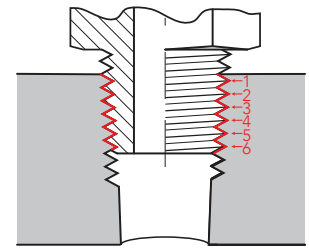
Installation of Tapered Port Fittings

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 to 6.

BSPT T.F.F.T Values

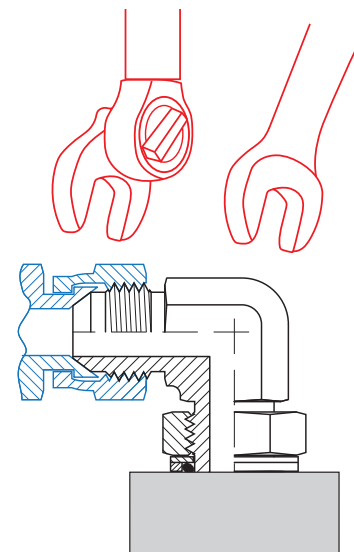
BSPT Dash Size	Inch Thread Size-TPI	Turns From Finger Tight (T.F.F.T)
02	1/8-28	2 – 3
04	1/4-19	2 – 3
06	3/8-19	2 – 3
08	1/2-14	2 – 3
10	5/8-14	2 – 3
12	3/4-14	2 – 3
16	1-11	1.5 – 2.5
20	1-1/4-11	1.5 – 2.5
24	1-1/2-11	1.5 – 2.5



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

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
	45	L35	226
	52	L42	347
S 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.

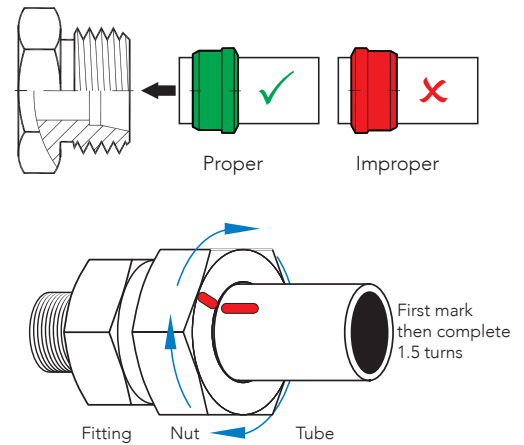
Installation of 24° DIN Tube Fittings

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.

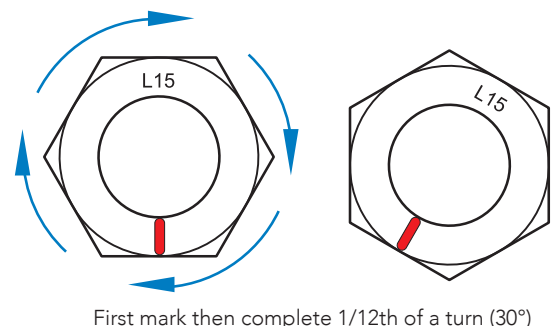
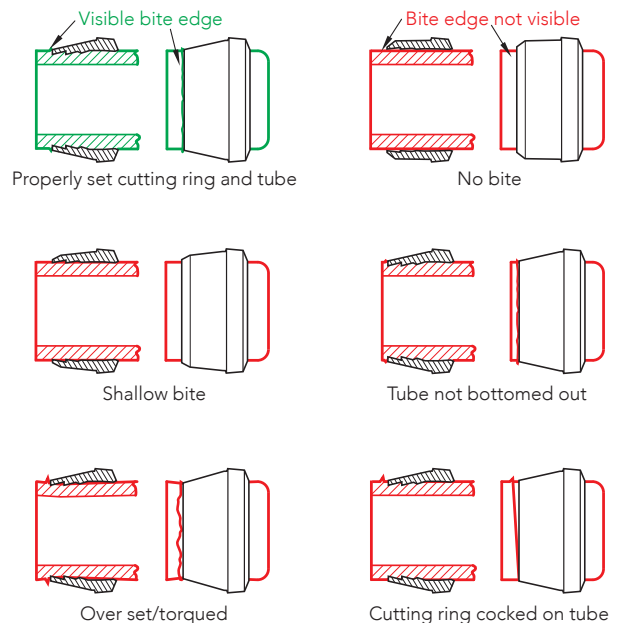
Pre-set Inspection

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

How to order 24° DIN Tube Fittings from Adaptall

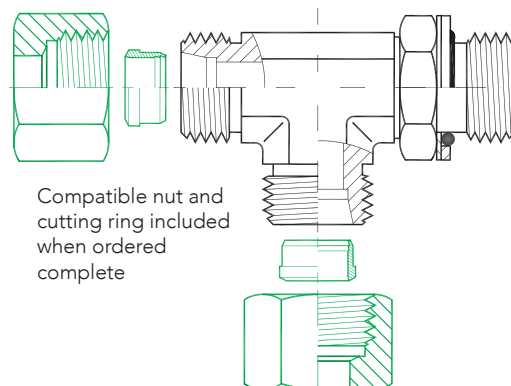
To order 24° DIN tube fittings from Adaptall it is important to understand the part numbering system. This system is typical of most manufacturers:

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.

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

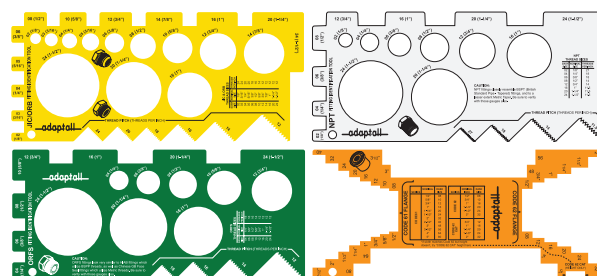
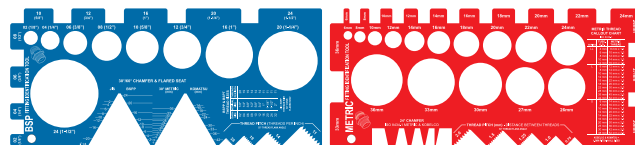
JIC & ORB GAUGE (x1)

NPT GAUGE (x1)

ORFS GAUGE (x1)

FLANGE GAUGE (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 THREAD GAUGES

ASK ABOUT OUR CUSTOM BRANDING

ARRIVING IN 2026! Introducing Adaptall's new Thread Gauge Board (TGB series), featuring both external and internal threads to help you aid in the identification of British, JIC, Metric, NPT, ORB, and ORFS thread types with ease. This durable board will give you confidence in knowing you have correctly identified the exact thread type - every time! Can be mounted to a wall, counter, or sit on rubber bushings (all hardware included).

TGB-BRITISH

BSPP & BSPT THREAD ID GAUGE BOARD

02 (G 1/8-28)	10 (G 5/8-14)	24 (G 1 1/2-11)
04 (G 1/4-19)	12 (G 3/4-14)	32 (G 2-11)
06 (G 3/8-19)	16 (G 1-11)	
08 (G 1/2-14)	20 (G 1 1/4-11)	



TGB-METRIC/DIN

METRIC & DIN THREAD ID GAUGE BOARD

M8x1.0	M12x1.75	M27x1.5
M8x1.25	M14x1.5	M27x2.0
M10x1.0	M16x1.5	M30x1.5
M10x1.25	M18x1.5	M30x2.0
M10x1.5	M20x1.5	M33x1.5
M12x1.0	M22x1.5	M33x2.0
M12x1.25	M24x1.5	
M12x1.5	M26x1.5	



TGB-NPT

NPT THREAD ID GAUGE BOARD

02 (1/8-27)	08 (1/2-14)	20 (1 1/4-11.5)
04 (1/4-18)	12 (3/4-14)	24 (1 1/2-11.5)
06 (3/8-18)	16 (1-11.5)	32 (2-11.5)



TGB-ORB/JIC

ORB & JIC THREAD ID GAUGE BOARD

02 (5/16-24)	06 (9/16-18)	14 (1 3/16-12)
03 (3/8-24)	08 (3/4-16)	16 (1 5/16-12)
04 (7/16-20)	10 (7/8-14)	20 (1 5/8-12)
05 (1/2-20)	12 (1 1/16-12)	24 (1 7/8-12)



TGB-ORFS

ORB & JIC THREAD ID GAUGE BOARD

04 (9/16-18)	10 (1-14)	16 (1 7/16-12)
06 (11/16-16)	12 (1 3/16-12)	20 (1 11/16-12)
08 (13/16-16)	14 (1 5/16-12)	24 (2-12)



ASK ABOUT OUR CUSTOM BRANDING

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

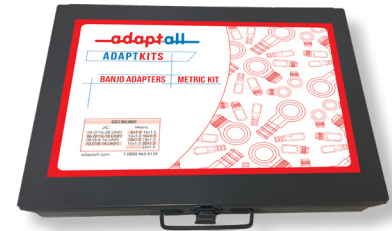
02 (4 PLUGS, 4 CAPS)	10 (2 PLUGS, 2 CAPS)
04 (4 PLUGS, 4 CAPS)	12 (4 PLUGS, 4 CAPS)
06 (4 PLUGS, 4 CAPS)	16 (2 PLUGS, 2 CAPS)
08 (4 PLUGS, 4 CAPS)	

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)

FEATURED KITS



FEATURED KITS

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)



ASK ABOUT OUR CUSTOM BRANDING

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)

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)	

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)	

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)

FEATURED KITS



TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

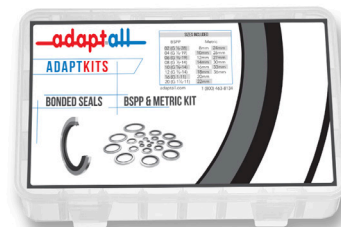
FEATURED KITS

ASK ABOUT OUR CUSTOM BRANDING

KIT-SEALS-BSPP+MET

BONDED SEAL KIT BSPP & METRIC

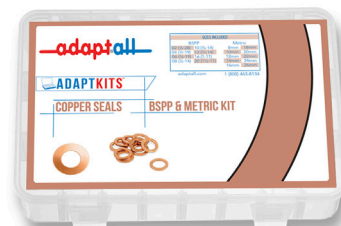
BSPP 02 (x20)	BSPP 16 (x15)	16mm (x20)	27mm (x15)
BSPP 04 (x20)	BSPP 20 (x10)	18mm (x15)	30mm (x20)
BSPP 06 (x20)	8mm (x20)	20mm (x15)	33mm (x10)
BSPP 08 (x20)	10mm (x20)	22mm (x15)	36mm (x10)
BSPP 10 (x15)	12mm (x20)	24mm (x15)	
BSPP 12 (x15)	14mm (x20)	26mm (x20)	



KIT-SEALS-COPPER

BSPP & METRIC COPPER WASHER KIT

02 (G 1/8-28)	8mm	18mm
04 (G 1/4-19)	10mm	20mm
06 (G 3/8-19)	12mm	22mm
08 (G 1/2-14)	14mm	24mm
10 (G 5/8-14)	14mm	26mm
12 (G 3/4-14)		
16 (G 1-11)		
20 (G 1 1/4-11)		



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)	



KIT-TEST-POINT-2G

2 GAUGE TEST POINT KIT

100cm/39.4" DN2 Perforated test hose Female 16x2.0 to 1/4 FNPT
Max 5,800 psi bottom mount 1/4 MNPT 2.5" Pressure Gauge
Max 1,400 psi bottom mount 1/4 MNPT 2.5" Pressure Gauge
4005ES-16x2.0-02 Male 16x2.0 to 1/8" Male BSPP ES seal
4005ES-16x2.0-04 Male 16x2.0 to 1/4" Male BSPP ES seal
4006-16x2.0-04 Male 16x2.0 to 1/4" Male ORB
4006-16x2.0-06 Male 16x2.0 to 3/8" Male ORB
4007-16x2.0-02 Male 16x2.0 to 1/8" Male NPT
4007-16x2.0-04 Male 16x2.0 to 1/4" Male NPT



IA SSSO

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 SSSO

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

INCLUDING:

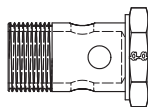
5002 SERIES	5070 SERIES	5300 SERIES
5007 SERIES	5080 SERIES	5360 SERIES
5011 SERIES	5201 SERIES	TGK GAUGES
5055 SERIES	5202 SERIES	
5063 SERIES	5203 SERIES	
5068 SERIES	5204P SERIES	



STEEL BANJO ADAPTERS

3002

MALE BSPP BANJO BOLT



3002-02

3002-02-21L

3002-04

3002-04-29L

3002-06

3002-06-40L

3002-06-42L

3002-06-47L

3002-08

3002-08-41L

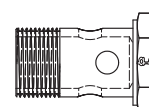
3002-10

3002-12

3002-16

3068

METRIC BANJO BOLT



3068-08-1

3068-08-125

3068-10-1

3068-10-125

3068-10-150

3068-12-1

3068-12-125

3068-12-150

3068-14-150

3068-14-150-27L

3068-16-150

3068-18-150

3068-18-150-40L

3068-20-150

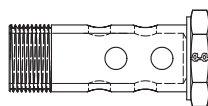
3068-22-150

3068-24-150

3068-26-150

3002DB

BSPP DOUBLE BANJO BOLT



3002DB-02

3002DB-04

3002DB-06

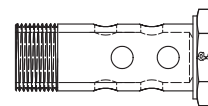
3002DB-08

3002DB-12

3002DB-16

3068DB

METRIC DOUBLE BANJO BOLT



3068DB-08-1

3068DB-10-1

3068DB-12-125

3068DB-12-150

3068DB-14-150

3068DB-16-150

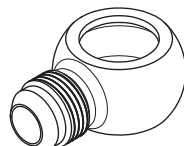
3068DB-18-150

3068DB-20-150

3068DB-22-150

3059

MALE JIC X BSP BANJO BODY



3059-04-02

3059-04-04

3059-05-04

3059-06-04

3059-06-06

3059-08-08

3059-10-08

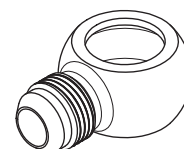
3059-10-12

3059-12-12

3059-12-16

3069

MALE JIC X METRIC BANJO BODY



3069-04-08

3069-04-10

3069-04-12

3069-06-14

3069-06-16

3069-08-18

3069-08-20

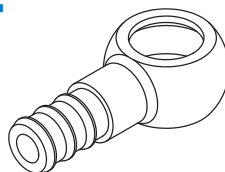
3069-10-22

3069-10-24

3069-12-26

3059HB

HOSE BARB X BSP BANJO BODY
(LOW PSI)



3059HB-04-02

3059HB-04-04

3059HB-05-06

3059HB-06-06

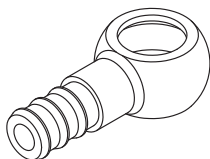
3059HB-08-08

3059HB-10-08

STEEL BANJO ADAPTERS

3069HB

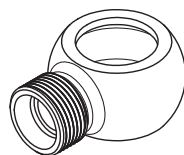
HOSE BARB X METRIC BANJO BODY (LOW PSI)



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

3069LL

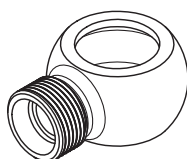
MALE DIN EXTRA LIGHT DUTY X METRIC BANJO BODY



3069LL-10-10

3069L

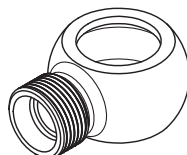
MALE DIN LIGHT DUTY X METRIC BANJO BODY



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

3069S

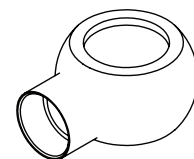
MALE DIN HEAVY DUTY X METRIC BANJO BODY



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

3069W

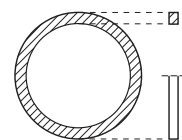
METRIC TUBE WELD X METRIC BANJO BODY



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-14-10	3069W-20-26
3069W-08-14	3069W-14-16	3069W-22-26
3069W-08-16	3069W-14-18	

3500

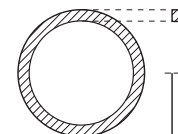
BSPP COPPER SEALING WASHERS



3500-02	3500-10	3500-24
3500-04	3500-12	
3500-06	3500-16	
3500-08	3500-20	

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 TEST POINTS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

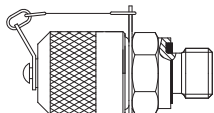
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

4005ES

MALE 16x2.0 TEST POINT
X MALE BSPP ES SEALED



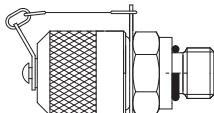
4005ES-16X2.0-02

4005ES-16X2.0-04

4005ES-16X2.0-06

4006

MALE 16x2.0 TEST POINT
X MALE ORB

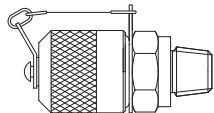


4006-16X2.0-04

4006-16X2.0-06

4007

MALE 16x2.0 TEST POINT
X MALE NPT

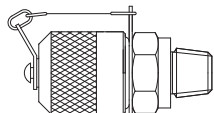


4007-16X2.0-02

4007-16X2.0-04

4011

MALE 16x2.0 TEST POINT
X MALE BSPT

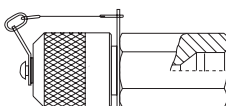


4011-16X2.0-02

4011-16X2.0-04

4020

MALE 16x2.0 TEST POINT
X FEMALE JIC



4020-16X2.0-04

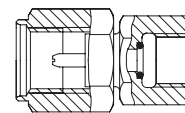
4020-16X2.0-05

4020-16X2.0-06

4020-16X2.0-08

4025

FEMALE 16x2.0 TEST POINT
X FEMALE BSP

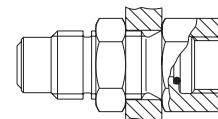


4025-16X2.0-04

4025-16X2.0-08

4040BSP

MALE 16x2.0 TEST POINT
X FEMALE BSP BULKHEAD

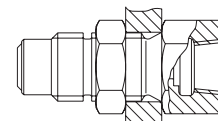


4040FBSP-04-16X2.0

4040FBSP-08-16X2.0

4040NPT

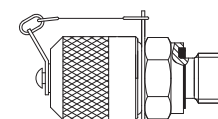
MALE 16x2.0 TEST POINT
X FEMALE NPT BULKHEAD



4040NPT-04-16X2.0

4068ES

MALE 16x2.0 TEST POINT
X MALE METRIC ES SEALED



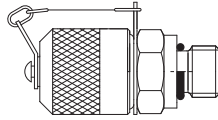
4068ES-16X2.0-12

4068ES-16X2.0-14

4068ES-16X2.0-16

4068H

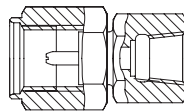
MALE 16x2.0 TEST POINT
X MALE HYDROTECHNIK
STANDARD



4068H-16X2.0-08
4068H-16X2.0-10

4643

FEMALE 16x2.0 TEST POINT
X FEMALE NPT



4643-16X2.0-04

S110-AC-AC

DN2 TEST HOSE FEMALE
16X2.0 X FEMALE 16x2.0



30cm/12"	200cm/79"
60cm/24"	300cm/118"
100cm/39"	350cm/138"
150cm/59"	500cm/197"

S110-AC-PI

DN2 TEST HOSE FEMALE
16x2.0 X FEMALE 1/4 NPT



30cm/12"	200cm/79"
60cm/24"	300cm/118"
100cm/39"	350cm/138"
150cm/59"	500cm/197"

S110-BULK

DN2 TEST HOSE BULK

Sold by the Foot



GAUGE

2.5" STAINLESS /
GLYCOL FILLED 1/4 MNPT
BOTTOM MOUNT
PRESSURE GAUGE



0-1,400 PSI / 0-100 bar
0-5,800 PSI / 0-400 bar

TEST-POINT-2G

2 GAUGE TEST POINT KIT

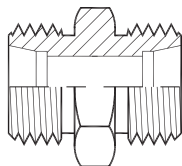
100cm/39.4" DN2 Perforated test hose Female 16x2.0 to 1/4 FNPT
Max 5,800 psi bottom mount 1/4 MNPT 2.5" Pressure Gauge
Max 1,400 psi bottom mount 1/4 MNPT 2.5" Pressure Gauge
4005ES-16x2.0-02 Male 16x2.0 to 1/8" Male BSPP ES seal
4005ES-16x2.0-04 Male 16x2.0 to 1/4" Male BSPP ES seal
4006-16x2.0-04 Male 16x2.0 to 1/4" Male ORB
4006-16x2.0-06 Male 16x2.0 to 3/8" Male ORB
4007-16x2.0-02 Male 16x2.0 to 1/8" Male NPT
4007-16x2.0-04 Male 16x2.0 to 1/4" Male NPT



STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5000LL

DIN UNION EXTRA LIGHT DUTY
(AVAILABLE COMPLETE ONLY)



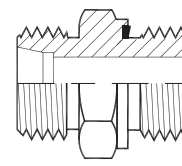
5000LL-04C
5000LL-06C

5000LL-08C
5000LL-10C

5000LL-12C

5002L

DIN LIGHT DUTY X MALE
BSPP ES SEAL



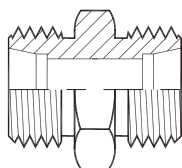
5002L-06-02
5002L-06-04
5002L-08-02
5002L-08-04
5002L-08-06
5002L-10-02
5002L-10-04
5002L-10-06
5002L-10-08
5002L-12-04

5002L-12-06
5002L-12-08
5002L-15-06
5002L-15-08
5002L-15-12
5002L-18-08
5002L-18-12
5002L-22-08
5002L-22-12
5002L-22-16

5002L-28-12
5002L-28-16
5002L-35-16
5002L-35-20
5002L-42-20
5002L-42-24

5000L

DIN UNION LIGHT DUTY



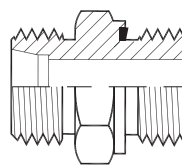
5000L-06
5000L-08
5000L-08-06
5000L-10
5000L-10-06
5000L-10-08
5000L-12
5000L-12-06

5000L-12-08
5000L-12-10
5000L-15
5000L-15-10
5000L-15-12
5000L-18
5000L-18-10
5000L-18-12

5000L-18-15
5000L-22
5000L-22-15
5000L-22-18
5000L-28
5000L-28-22
5000L-35
5000L-42

5002S

DIN HEAVY DUTY X MALE
BSPP ES SEAL



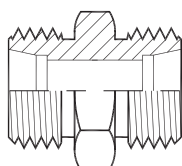
5002S-06-04
5002S-08-04
5002S-08-06
5002S-10-04
5002S-10-06
5002S-10-08
5002S-12-04
5002S-12-06

5002S-12-08
5002S-14-06
5002S-14-08
5002S-16-06
5002S-16-08
5002S-16-12
5002S-20-08
5002S-20-12

5002S-20-16
5002S-25-12
5002S-25-16
5002S-30-16
5002S-30-20
5002S-38-20
5002S-38-24

5000S

DIN UNION HEAVY DUTY



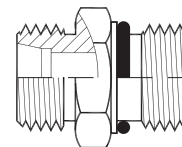
5000S-06
5000S-08
5000S-10
5000S-10-08
5000S-12
5000S-12-10

5000S-14
5000S-16
5000S-16-12
5000S-20
5000S-20-16
5000S-25

5000S-25-16
5000S-25-20
5000S-30
5000S-38

5006L

DIN LIGHT DUTY X MALE SAE
ORB



5006L-06-04
5006L-06-06
5006L-08-04
5006L-08-06
5006L-10-04
5006L-10-06
5006L-10-08
5006L-12-06
5006L-12-08
5006L-12-10

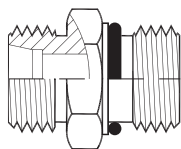
5006L-12-12
5006L-15-08
5006L-15-10
5006L-18-08
5006L-18-10
5006L-22-10
5006L-22-12
5006L-22-16
5006L-28-10
5006L-28-12

5006L-28-16
5006L-35-16
5006L-35-20
5006L-42-20
5006L-42-24

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5006S

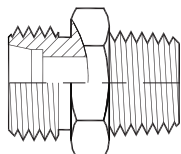
DIN HEAVY DUTY X MALE SAE
ORB



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

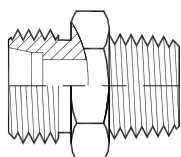
DIN EXTRA LIGHT X MALE NPT
(AVAILABLE COMPLETE ONLY)



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

5007L

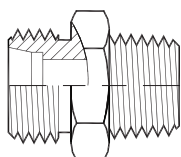
DIN LIGHT DUTY X MALE NPT



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

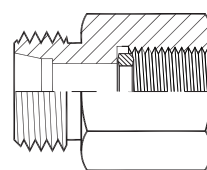
DIN HEAVY DUTY X MALE NPT



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

5009GCL

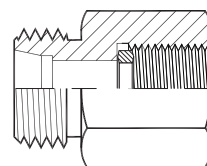
DIN LIGHT DUTY X FEMALE BSP
GAUGE COUPLING
(AVAILABLE COMPLETE ONLY)



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

5009GCS

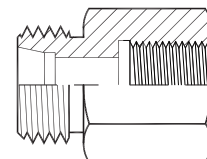
DIN HEAVY DUTY X FEMALE BSP
GAUGE COUPLING
(AVAILABLE COMPLETE ONLY)



5009GCS-06-08	5009GCS-10-08
5009GCS-08-08	5009GCS-12-08

5009L

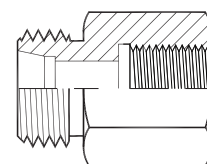
DIN LIGHT DUTY X FEMALE BSP
SOLID



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



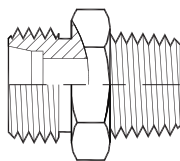
5009S-06-04	5009S-14-08	5009S-30-20
5009S-08-04	5009S-16-08	5009S-38-24
5009S-10-06	5009S-20-12	
5009S-12-06	5009S-25-16	

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

5011LL

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



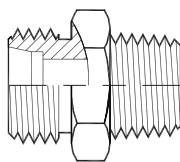
5011LL-04-02C
5011LL-06-02C

5011LL-08-02C
5011LL-08-04C

5011LL-10-04C
5011LL-12-06C

5011L

DIN LIGHT DUTY X MALE BSPT



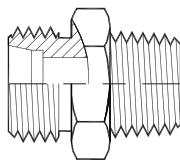
5011L-06-02
5011L-06-04
5011L-08-02
5011L-08-04
5011L-08-06
5011L-10-02
5011L-10-04
5011L-10-06

5011L-12-04
5011L-12-06
5011L-12-08
5011L-15-06
5011L-15-08
5011L-18-08
5011L-18-12
5011L-22-12

5011L-28-16
5011L-35-20
5011L-42-24

5011S

DIN HEAVY DUTY X MALE BSPT



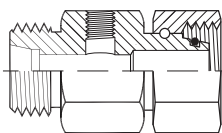
5011S-06-04
5011S-08-04
5011S-10-06
5011S-12-06
5011S-12-08
5011S-14-06

5011S-14-08
5011S-16-06
5011S-16-08
5011S-20-08
5011S-20-12
5011S-25-12

5011S-25-16
5011S-30-16
5011S-30-20
5011S-38-24

5015TP

MALE DIN X FEMALE DIN
W/ NPT TEST PORT



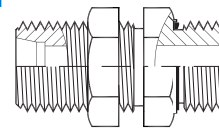
5015TP-L06-02
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5015TP-L10-02
5015TP-L12-02
5015TP-L15-02
5015TP-L18-04
5015TP-L22-04
5015TP-L28-04

5015TP-L35-04
5015TP-L42-04
5015TP-S06-02
5015TP-S08-02
5015TP-S10-02
5015TP-S12-02
5015TP-S16-04
5015TP-S20-04

5015TP-S25-04
5015TP-S30-04
5015TP-S38-04

5040ES-L

DIN LIGHT DUTY BULKHEAD X
MALE BSPP ES SEAL



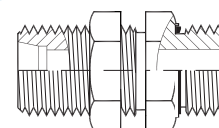
5040-L06-02ESX
5040-L10-06ESX

5040-L12-08ESX
5040-L15-12ESX

5040-L18-12ESX

5040ES-S

DIN HEAVY DUTY BULKHEAD X
MALE BSPP ES SEAL

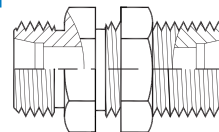


5040-S10-04ESX
5040-S12-06ESX
5040-S12-08ESX
5040-S14-08ESX

5040-S16-08ESX
5040-S16-12ESX
5040-S20-08ESX
5040-S25-16ESX

5040L

DIN BULKHEAD UNION LIGHT
DUTY



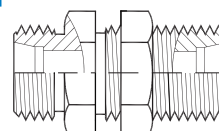
5040L-06
5040L-08
5040L-10
5040L-12

5040L-15
5040L-18
5040L-22
5040L-28

5040L-35
5040L-42

5040S

DIN BULKHEAD UNION HEAVY
DUTY



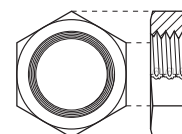
5040S-06
5040S-08
5040S-10
5040S-12

5040S-14
5040S-16
5040S-20
5040S-25

5040S-30
5040S-38

5041

METRIC BULKHEAD NUT



5041-12
5041-14
5041-16
5041-18
5041-20
5041-22

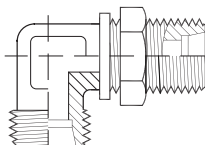
5041-24
5041-26
5041-30
5041-36
5041-42
5041-45

5041-52

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5042L

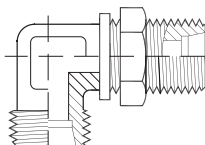
90° DIN LIGHT DUTY BULKHEAD UNION ELBOW



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

5042S

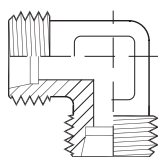
90° DIN HEAVY DUTY BULKHEAD UNION ELBOW



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

5055LL

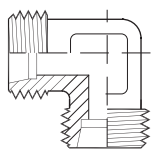
90° DIN UNION EXTRA LIGHT DUTY ELBOW
(AVAILABLE COMPLETE ONLY)



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

5055L

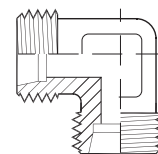
90° DIN UNION LIGHT DUTY ELBOW



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

5055S

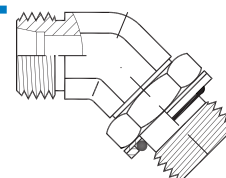
90° DIN UNION HEAVY DUTY ELBOW



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

5058L

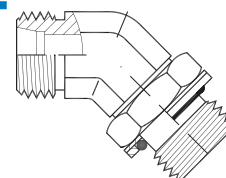
45° DIN LIGHT DUTY X MALE BSPP ADJUSTABLE ELBOW



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

5058S

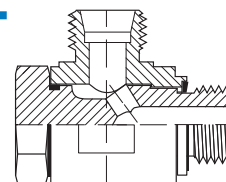
45° DIN HEAVY DUTY X MALE BSPP ADJUSTABLE ELBOW



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

5059BJL

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



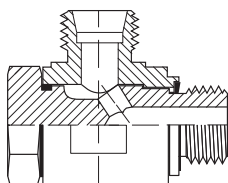
5059BJL-06-02	5059BJL-15-08	5059BJL-35-20
5059BJL-08-04	5059BJL-18-08	5059BJL-42-24
5059BJL-10-04	5059BJL-22-12	
5059BJL-12-06	5059BJL-28-16	

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

5059BJS

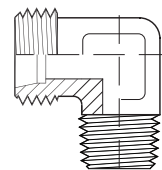
90° DIN HEAVY DUTY BANJO X
MALE BSPP ES SEAL ELBOW



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	

5063L

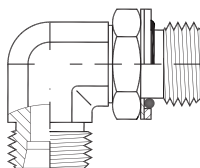
90° DIN LIGHT DUTY X MALE
BSPT ELBOW



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	

5059L

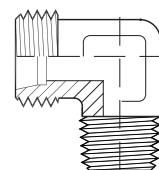
90° DIN LIGHT DUTY X MALE
BSPP ADJUSTABLE ELBOW



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	

5063S

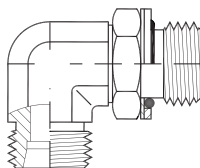
90° DIN HEAVY DUTY X MALE
BSPT ELBOW



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	

5059S

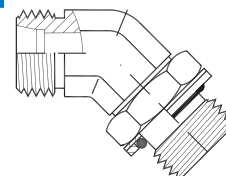
90° DIN HEAVY DUTY X MALE
BSPP ADJUSTABLE ELBOW



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	

5066L

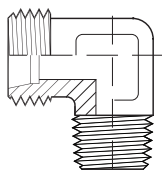
45° DIN LIGHT DUTY X MALE
METRIC ADJUSTABLE ELBOW



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

5063LL

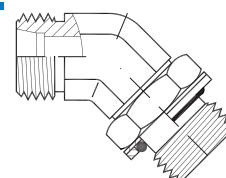
90° DIN EXTRA LIGHT DUTY X
MALE BSPT ELBOW
(AVAILABLE COMPLETE ONLY)



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

5066S

45° DIN HEAVY DUTY X MALE
METRIC ADJUSTABLE ELBOW

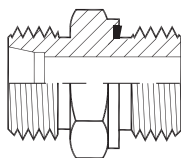


5066S-06-12	5066S-14-20
5066S-08-14	5066S-16-22
5066S-10-16	5066S-20-27
5066S-12-18	5066S-25-33

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5068L

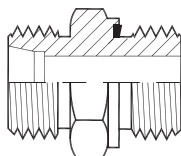
DIN LIGHT DUTY X MALE METRIC
ES SEAL



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

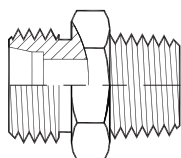
DIN HEAVY DUTY X MALE METRIC
ES SEAL



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

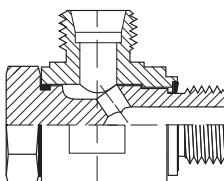
DIN EXTRA LIGHT DUTY X MALE
METRIC TAPER
(AVAILABLE COMPLETE ONLY)



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

5069BJL

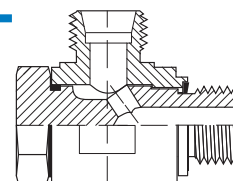
90° DIN LIGHT BANJO X MALE
METRIC ES SEAL ELBOW



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

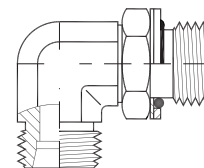
90° DIN HEAVY BANJO X MALE
METRIC ES SEAL ELBOW



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

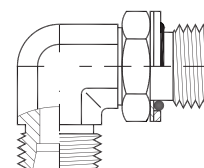
90° DIN LIGHT DUTY X MALE
METRIC ADJUSTABLE ELBOW



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

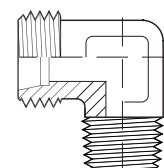
90° DIN HEAVY DUTY X MALE
METRIC ADJUSTABLE ELBOW



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

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

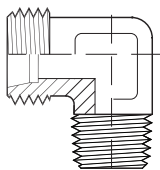
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

5070LL

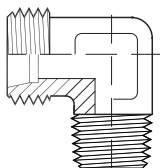
90° DIN EXTRA LIGHT DUTY X MALE NPT ELBOW
(AVAILABLE COMPLETE ONLY)



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

5070L

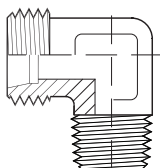
90° DIN LIGHT DUTY X MALE NPT ELBOW



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

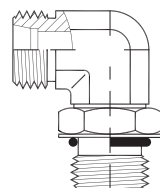
90° DIN HEAVY DUTY X MALE NPT ELBOW



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

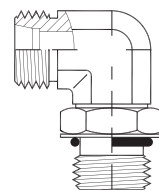
90° DIN LIGHT DUTY X MALE SAE ORB ADJUSTABLE ELBOW



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

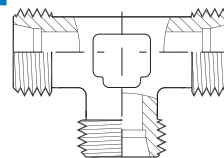
90° DIN HEAVY DUTY X MALE SAE ORB ADJUSTABLE ELBOW



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

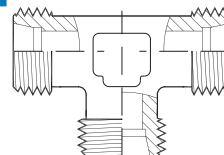
DIN UNION TEE EXTRA LIGHT DUTY (AVAILABLE COMPLETE ONLY)



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

5080L

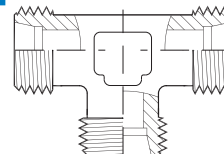
DIN UNION TEE LIGHT DUTY



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

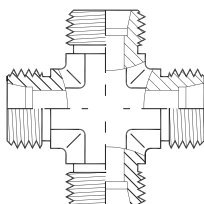


5080S-06	5080S-14	5080S-30
5080S-08	5080S-16	5080S-38
5080S-10	5080S-20	
5080S-12	5080S-25	

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5096L

DIN UNION CROSS LIGHT DUTY

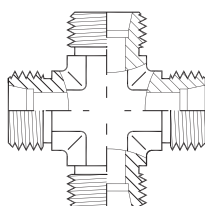


5096L-06
5096L-08

5096L-10
5096L-12

5096S

DIN UNION CROSS HEAVY DUTY

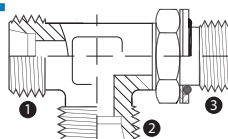


5096S-06
5096S-08

5096S-10
5096S-12

5158L

DIN LIGHT DUTY X MALE BSPP
ADJUSTABLE RUN TEE



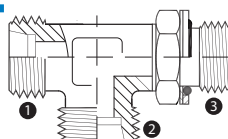
5158L-06-06-02
5158L-08-08-04
5158L-10-10-04
5158L-12-12-06

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



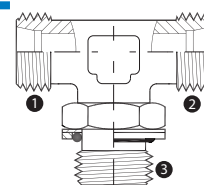
5158S-06-06-04
5158S-08-08-04
5158S-10-10-06
5158S-12-12-06

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



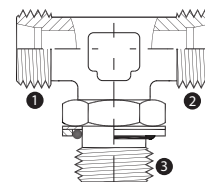
5159L-06-06-02
5159L-08-08-04
5159L-10-10-04
5159L-12-12-06

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



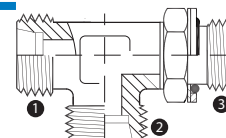
5159S-06-06-04
5159S-08-08-04
5159S-10-10-06
5159S-12-12-06

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



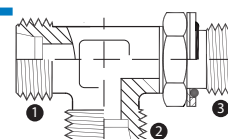
5168L-06-06-10
5168L-08-08-12
5168L-10-10-14
5168L-12-12-16

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

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

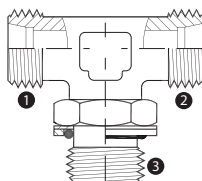
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

5169L

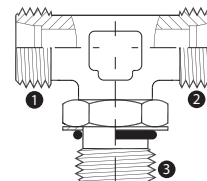
DIN LIGHT DUTY X MALE METRIC
ADJUSTABLE BRANCH TEE



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	

5179L

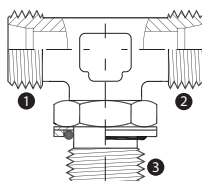
DIN LIGHT DUTY X MALE SAE
ORB ADJUSTABLE BRANCH TEE



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	

5169S

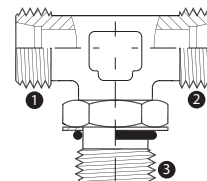
DIN HEAVY DUTY X MALE METRIC
ADJUSTABLE BRANCH TEE



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	

5179S

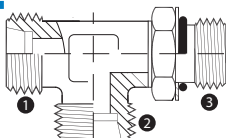
DIN HEAVY DUTY X MALE SAE
ORB ADJUSTABLE BRANCH TEE



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	

5178L

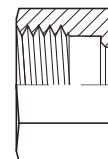
DIN LIGHT DUTY X MALE SAE
ORB ADJUSTABLE RUN TEE



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	

5201LL

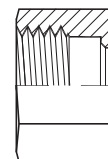
DIN EXTRA LIGHT DUTY TUBE NUT



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

5201L

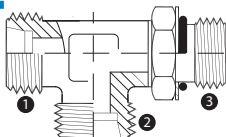
DIN LIGHT DUTY TUBE NUT



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	

5178S

DIN HEAVY DUTY X MALE SAE
ORB ADJUSTABLE RUN TEE

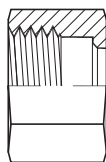


5178S-06-06-04	5178S-14-14-10	5178S-30-30-20
5178S-08-08-06	5178S-16-16-10	5178S-38-38-24
5178S-10-10-06	5178S-20-20-12	
5178S-12-12-08	5178S-25-25-16	

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

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	

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	

5202LL

DIN 2353 EXTRA LIGHT CUTTING RING



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

5202OR

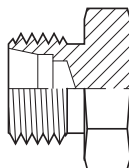
DIN 2353 SOFT-SEAL CUTTING RING



5202OR-08	5202OR-15	5202OR-22
5202OR-10	5202OR-16	
5202OR-12	5202OR-18	
5202OR-14	5202OR-20	

5203L

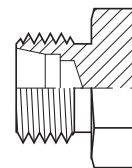
DIN LIGHT DUTY TUBE PLUG



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

5203S

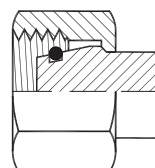
DIN HEAVY DUTY TUBE PLUG



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

5204L

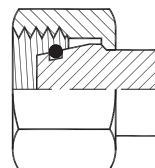
DIN LIGHT DUTY TUBE CAP



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

5204S

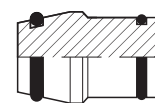
DIN HEAVY DUTY TUBE CAP



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

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	

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

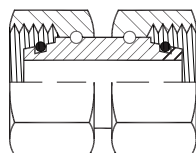
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

5300L

FEMALE DIN LIGHT SOFT SEAL UNION



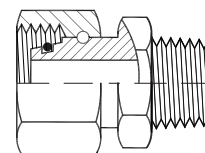
5300L-06
5300L-08
5300L-10
5300L-12

5300L-15
5300L-18
5300L-22
5300L-28

5300L-35
5300L-42

5307L

FEMALE DIN LIGHT DUTY X MALE NPT



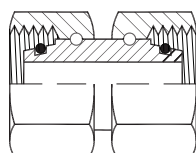
5307L-06-02
5307L-06-04
5307L-08-04
5307L-10-04

5307L-12-06
5307L-15-08
5307L-18-08
5307L-22-12

5307L-28-16
5307L-35-20
5307L-42-24

5300S

FEMALE DIN HEAVY SOFT SEAL UNION



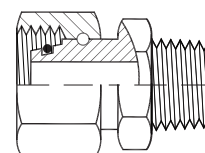
5300S-06
5300S-08
5300S-10
5300S-12

5300S-14
5300S-16
5300S-20
5300S-25

5300S-30
5300S-38

5307S

FEMALE DIN HEAVY DUTY X MALE NPT



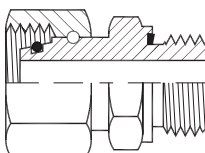
5307S-06-04
5307S-08-04
5307S-10-06
5307S-12-06

5307S-14-08
5307S-16-08
5307S-20-12
5307S-25-16

5307S-30-20
5307S-38-24

5302L

FEMALE DIN LIGHT DUTY X MALE BSPP ES SEAL



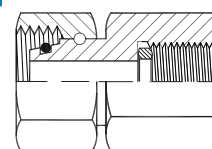
5302L-06-02
5302L-08-04
5302L-10-04
5302L-12-04

5302L-12-06
5302L-15-08
5302L-18-08
5302L-18-12

5302L-22-12
5302L-28-16
5302L-35-20
5302L-42-24

5309GCL

FEMALE DIN LIGHT DUTY X FEMALE BSP GAUGE COUPLING

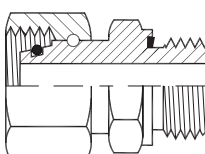


5309GCL-06-04
5309GCL-08-04

5309GCL-10-04
5309GCL-12-04

5302S

FEMALE DIN HEAVY DUTY X MALE BSPP ES SEAL



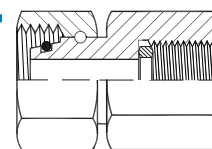
5302S-06-04
5302S-08-04
5302S-10-06
5302S-12-06

5302S-12-08
5302S-14-08
5302S-16-08
5302S-20-12

5302S-25-16
5302S-30-20
5302S-38-24

5309GCS

FEMALE DIN HEAVY DUTY X FEMALE BSP GAUGE COUPLING



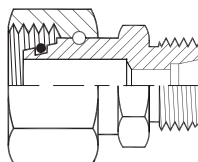
5309GCS-06-08
5309GCS-08-08

5309GCS-10-08
5309GCS-12-08

STEEL 24° DIN TUBE FITTINGS/ADAPTERS

5315L

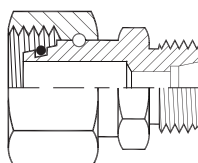
FEMALE DIN X MALE DIN
REDUCER LIGHT DUTY



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	

5315S

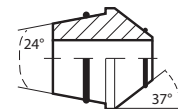
FEMALE DIN X MALE DIN
REDUCER HEAVY DUTY



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	

5333

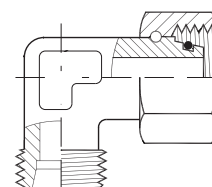
GB 37/74 CONVERSION SEAT
FOR DIN MALE



5333-06L/S	5333-18L	5333-38S
5333-08L/S	5333-20S	5333-42L
5333-10L/S	5333-22L	
5333-12L/S	5333-25S	
5333-14S	5333-28L	
5333-15L	5333-30S	
5333-16S	5333-35L	

5360L

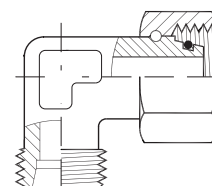
90° DIN LIGHT DUTY X FEMALE
DIN SWIVEL ELBOW



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	

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

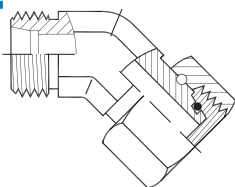
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

5362L

45° DIN X FEMALE DIN SWIVEL
LIGHT DUTY ELBOW



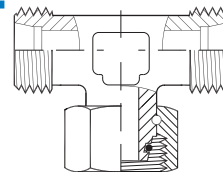
5362L-06
5362L-08
5362L-10
5362L-12

5362L-15
5362L-18
5362L-22
5362L-28

5362L-35
5362L-42

5387L

FEMALE DIN LIGHT DUTY
SWIVEL BRANCH TEE



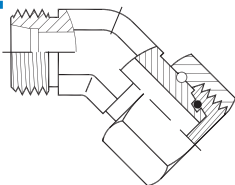
5387L-06
5387L-08
5387L-10
5387L-12

5387L-15
5387L-18
5387L-22
5387L-28

5387L-35
5387L-42

5362S

45° DIN X FEMALE DIN SWIVEL
HEAVY DUTY ELBOW



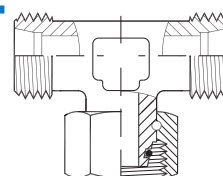
5362S-06
5362S-08
5362S-10
5362S-12

5362S-14
5362S-16
5362S-20
5362S-25

5362S-30
5362S-38

5387S

FEMALE DIN HEAVY DUTY
SWIVEL BRANCH TEE



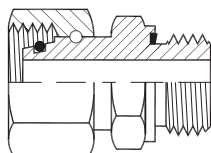
5387S-06
5387S-08
5387S-10
5387S-12

5387S-14
5387S-16
5387S-20
5387S-25

5387S-30
5387S-38

5368L

FEMALE DIN LIGHT DUTY X MALE
METRIC ES SEAL



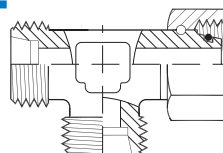
5368L-06-10
5368L-08-12
5368L-10-14
5368L-12-16

5368L-15-18
5368L-18-22
5368L-22-26
5368L-28-33

5368L-35-42
5368L-42-48

5390L

FEMALE DIN LIGHT DUTY
SWIVEL RUN TEE



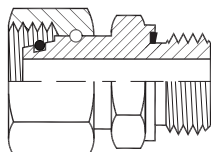
5390L-06
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5390L-10
5390L-12

5390L-15
5390L-18
5390L-22
5390L-28

5390L-35
5390L-42

5368S

FEMALE DIN HEAVY DUTY X
MALE METRIC ES SEAL



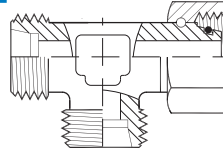
5368S-06-12
5368S-08-14
5368S-10-16
5368S-12-18

5368S-14-20
5368S-16-22
5368S-20-27
5368S-25-33

5368S-30-42
5368S-38-48

5390S

FEMALE DIN HEAVY DUTY
SWIVEL RUN TEE



5390S-06
5390S-08
5390S-10
5390S-12

5390S-14
5390S-16
5390S-20
5390S-25

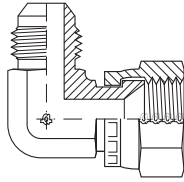
5390S-30
5390S-38

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

STEEL INTERNATIONAL ADAPTERS

3705

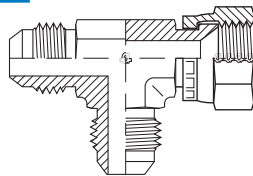
90° MALE JIC X FEMALE JIC
ELBOW



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

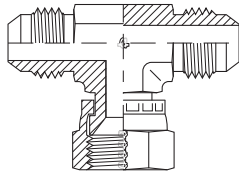
FEMALE JIC RUN TEE



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

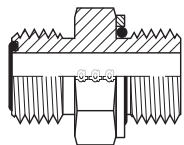
FEMALE JIC BRANCH TEE



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

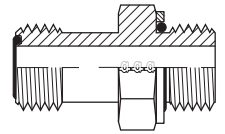
MALE ORFS X MALE BSPP C/W
OR & RR



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

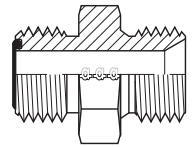
MALE ORFS X MALE BSPP LONG
C/W OR & RR



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

6005

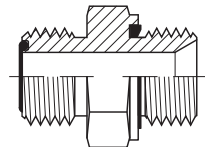
MALE ORFS X MALE BSPP



6005-04-02	6005-08-06	6005-16-08
6005-04-04	6005-08-08	6005-16-12
6005-04-06	6005-10-06	6005-16-16
6005-06-02	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	

6005ES

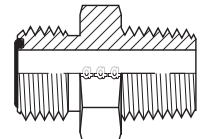
MALE ORFS X MALE BSPP
C/W ELASTOMERIC SEAL



6005ES-04-04	6005ES-12-08
6005ES-06-06	6005ES-12-12
6005ES-08-06	6005ES-12-16
6005ES-08-08	6005ES-16-12
6005ES-10-08	6005ES-16-16
6005ES-10-12	6005ES-20-20

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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

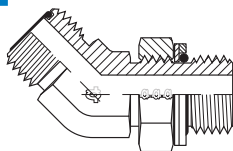
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

6058

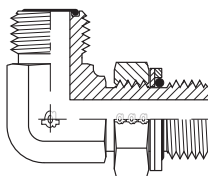
45° MALE ORFS X MALE BSPP
ADJUSTABLE ELBOW



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

6059

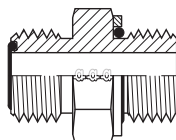
90° ORFS X MALE BSPP
ADJUSTABLE ELBOW



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

6068

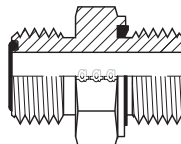
MALE ORFS X MALE METRIC C/W
OR & RR



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

6068ES

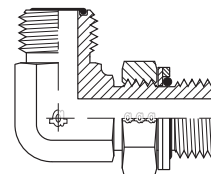
MALE ORFS X MALE BSPP C/W
ELASTOMERIC SEAL



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

6069

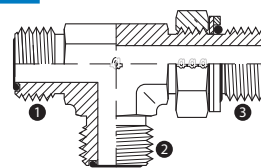
90° MALE ORFS X MALE METRIC
ADJUSTABLE ELBOW



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

6158

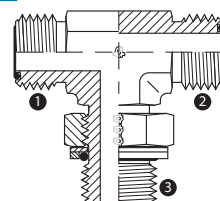
MALE ORFS X MALE BSPP
ADJUSTABLE RUN TEE



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

6159

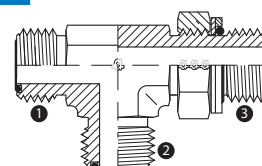
MALE ORFS X MALE BSPP
ADJUSTABLE BRANCH TEE



6159-04-04-02	6159-08-08-06	6159-12-12-12
6159-04-04-04	6159-08-08-08	6159-16-16-16
6159-06-06-04	6159-10-10-08	
6159-06-06-06	6159-10-10-12	

6168

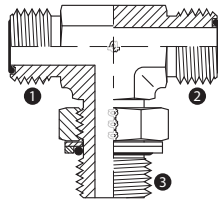
MALE ORFS X MALE METRIC
ADJUSTABLE RUN TEE



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	

6169

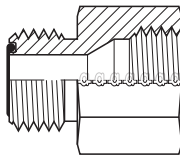
MALE ORFS X MALE METRIC
ADJUSTABLE BRANCH TEE



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

6220

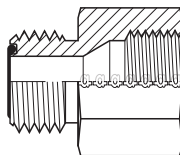
MALE ORFS X FEMALE JIS



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

6230

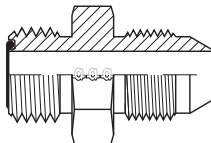
MALE ORFS X FEMALE KOMATSU



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

6237

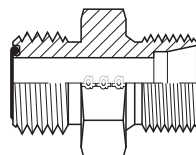
MALE ORFS X MALE KOMATSU



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

6247

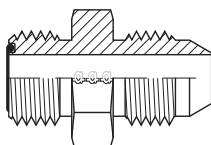
MALE ORFS X MALE KOBELCO



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

6337

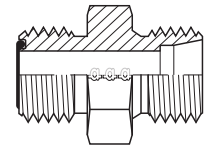
MALE ORFS X MALE JIS



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

6605

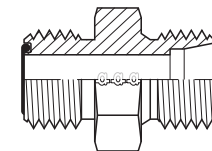
MALE ORFS X DIN LIGHT DUTY



6605-04-L06-12	6605-08-L18-26	6605-16-L28-36
6605-04-L08-14	6605-10-L15-22	6605-16-L35-45
6605-06-L08-14	6605-12-L12-18	6605-24-L35-45
6605-06-L10-16	6605-12-L15-22	6605-24-L42-52
6605-06-L12-18	6605-12-L18-26	
6605-08-L10-16	6605-12-L22-30	
6605-08-L12-18	6605-12-L28-36	
6605-08-L15-22	6605-16-L22-30	

6606

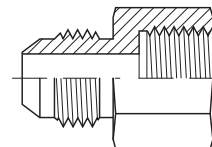
MALE ORFS X DIN HEAVY DUTY



6606-04-S06-14	6606-10-S12-20	6606-16-S30-42
6606-04-S08-16	6606-10-S14-22	6606-20-S30-42
6606-06-S08-16	6606-10-S16-24	6606-24-S38-52
6606-06-S10-18	6606-12-S20-30	
6606-08-S12-20	6606-12-S25-36	
6606-08-S14-22	6606-16-S25-36	

6620

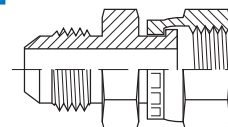
MALE JIC X FEMALE ORFS
SOLID



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	

6620S

MALE JIC X FEMALE ORFS
SWIVEL



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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

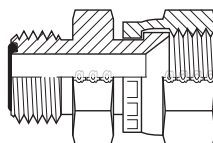
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

6621

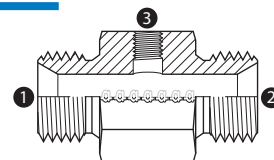
MALE ORFS X FEMALE JIC SWIVEL



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

9000TP

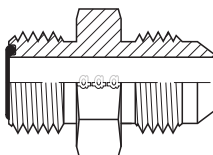
MALE BSPP TEST PORT ADAPTER



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

6622

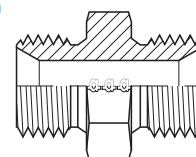
MALE ORFS X MALE JIC



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	

9001

MALE METRIC NIPPLE

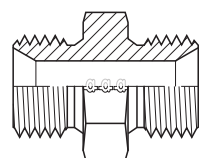


9001-10-10	9001-18-18	9001-24-20
9001-12-10X1.0	9001-20-16	9001-24-22
9001-12-10	9001-20-18	9001-24-24
9001-12-12	9001-20-20	9001-26-18
9001-14-12	9001-22-10X1.0	9001-26-22
9001-14-14	9001-22-14	9001-26-24
9001-16-12	9001-22-16	9001-26-26
9001-16-14	9001-22-18	9001-30-22
9001-16-16	9001-22-20	9001-30X2.0-22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

9000

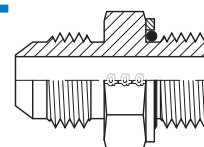
MALE BSPP NIPPLE



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

9002

MALE JIC X MALE BSPP C/W OR & RR

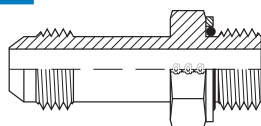


9002-04-02	9002-08-08	9002-20-16
9002-04-04	9002-08-12	9002-20-20
9002-04-06	9002-10-08	9002-24-20
9002-05-04	9002-10-12	9002-24-24
9002-05-06	9002-12-08	9002-32-32
9002-06-04	9002-12-12	
9002-06-06	9002-12-16	
9002-06-08	9002-16-12	
9002-08-04	9002-16-16	
9002-08-06	9002-16-20	

STEEL INTERNATIONAL ADAPTERS

9002L

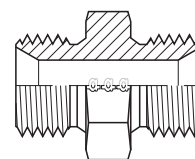
MALE JIC X MALE BSPP -
LONG C/W OR & RR



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	

9004

MALE BSPP X MALE METRIC

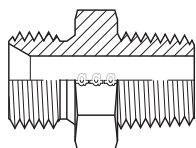


9004-02-10	9004-06-22	9004-12-27X1.5
9004-02-12X1.0	9004-06-24	9004-12-30
9004-02-12	9004-08-12	9004-12-33X2.0
9004-02-14	9004-08-14	9004-16-18
9004-04-10	9004-08-16	9004-16-22
9004-04-08X1.0	9004-08-18	9004-16-26
9004-04-10X1.0	9004-08-20	9004-16-27X2.0
9004-04-10X1.25	9004-08-22	9004-16-28
9004-04-12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

*Default thread pitch = 1.5mm

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	

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

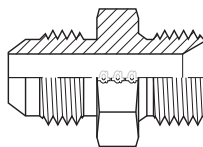
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

9005

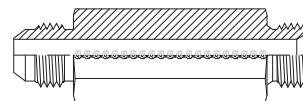
MALE JIC X MALE BSPP



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

9005EL

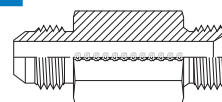
MALE JIC X MALE BSPP - EXTRA LONG



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

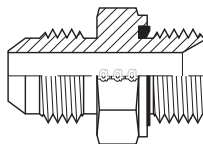
MALE JIC X MALE BSPP - LONG



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

9005ES

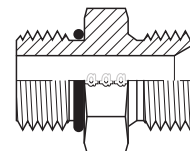
MALE JIC X MALE BSPP C/W ELASTOMERIC SEAL



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	

9006

MALE SAE ORB X MALE BSPP

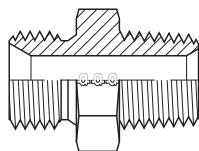


9006-04-02	9006-08-10	9006-16-16
9006-04-04	9006-08-12	9006-16-20
9006-04-06	9006-10-06	9006-20-12
9006-04-08	9006-10-08	9006-20-16
9006-05-04	9006-10-10	9006-20-20
9006-05-06	9006-10-12	9006-20-24
9006-05-08	9006-10-16	9006-24-16
9006-06-04	9006-12-06	9006-24-20
9006-06-06	9006-12-08	9006-24-24
9006-06-08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

STEEL INTERNATIONAL ADAPTERS

9007

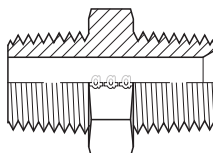
MALE BSPP X MALE NPT



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

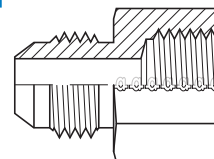
MALE BSPT X MALE NPT



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

9009

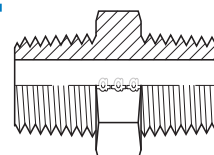
MALE JIC X FEMALE BSP



9009-04-02	9009-08-06	9009-20-20
9009-04-04	9009-08-08	9009-24-24
9009-04-06	9009-08-12	9009-32-32
9009-06-02	9009-10-08	
9009-06-04	9009-12-08	
9009-06-06	9009-12-12	
9009-06-08	9009-12-16	
9009-08-02	9009-16-16	

9010

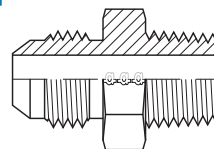
MALE BSPT NIPPLE



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

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

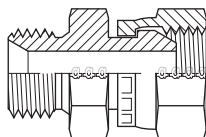
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

9015

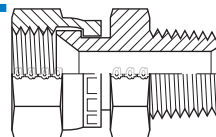
MALE BSPP X FEMALE BSPP SWIVEL



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	

9017

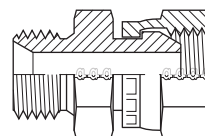
FEMALE JIC (SWIVEL) X MALE NPT



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

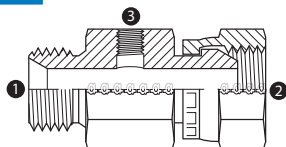
MALE METRIC X FEMALE BSPP SWIVEL



9018-12-04	9018-18-08	9018-26-12
9018-14-04	9018-20-08	9018-30X1.5-06
9018-14-06	9018-22-08	9018-30X1.5-08
9018-16-06	9018-22-12	
9018-16-08	9018-24-08	
9018-18-06	9018-26-08	

9015TP (B)

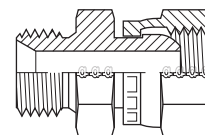
BSPP TEST PORT TEE (PORT = FBSP)



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

9019

MALE BSPP X FEMALE METRIC SWIVEL

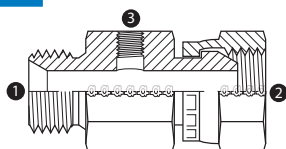


9019-04-L06-12	9019-06-L15-22	9019-10-L15-22
9019-04-L08-14	9019-06-S12-20	9019-12-L12-18
9019-04-L10-16	9019-08-L08-14	9019-12-L15-22
9019-04-L12-18	9019-08-L10-16	9019-12-L18-26
9019-06-L06-12	9019-08-L12-18	9019-12-S12-20
9019-06-L08-14	9019-08-L15-22	
9019-06-L10-16	9019-08-S12-20	
9019-06-L12-18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

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

9015TP (N)

BSPP TEST PORT TEE (PORT = FNPT)

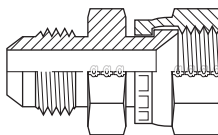


9015TP-04-04-N02	9015TP-08-08-N04
9015TP-06-06-N02	9015TP-12-12-N04

STEEL INTERNATIONAL ADAPTERS

9020

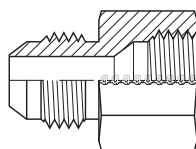
MALE JIC X FEMALE JIC SWIVEL



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

9020C

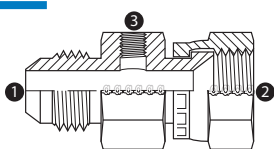
MALE JIC X FEMALE JIC (SOLID)



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

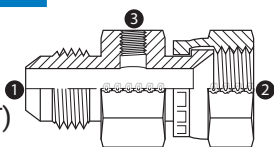


9020TP-04-04-02*	9020TP-10-10-02*
9020TP-06-06-02*	9020TP-12-12-02*
9020TP-08-08-02*	9020TP-16-16-02*
9020TP-08-08-10X1**	

* BSP Test Port
** Metric Test Port

9020TP (N)

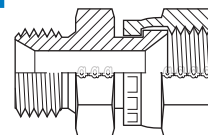
MALE JIC X FEMALE JIC
TEST PORT TEE (PORT = FNPT)



9020TP-04-04-04NPT	9020TP-12-12-04NPT
9020TP-06-06-04NPT	9020TP-16-16-04NPT
9020TP-08-08-04NPT	9020TP-20-20-04NPT
9020TP-10-10-04NPT	9020TP-24-24-04NPT

9021

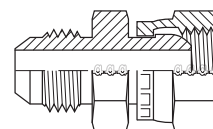
MALE BSPP X FEMALE JIC
SWIVEL



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

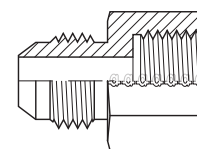


9022-04-L06-12	9022-06-L15-22	9022-10-L12-18
9022-04-L08-14	9022-06-S12-20	9022-10-L15-22
9022-05-L06-12	9022-08-L10-16	9022-10-S12-20
9022-06-L08-14	9022-08-L12-18	9022-12-S20-30
9022-06-L10-16	9022-08-L15-22	
9022-06-L12-18	9022-08-S12-20	

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

9022F

MALE JIC X FEMALE FLAT FACE
METRIC (SOLID)



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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

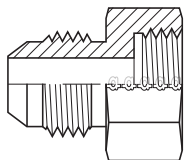
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9022FC

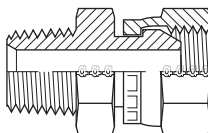
MALE JIC X FEMALE FLAT FACE
METRIC SHORT (SOLID)



9022FC-04-12	9022FC-08-20	9022FC-12-30X1.5
9022FC-04-14	9022FC-08-22	9022FC-16-36X2.0
9022FC-06-16	9022FC-10-24	9022FC-20-42
9022FC-06-18	9022FC-10-27X1.5	9022FC-20-45
9022FC-08-18	9022FC-12-27X1.5	9022FC-24-52

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	9023-20-20
9023-04-06	9023-12-08	9023-24-24
9023-06-04	9023-12-12	9023-32-32
9023-06-06	9023-12-16	

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

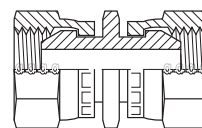
MALE METRIC (SEALED) X
FEMALE JIC



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

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

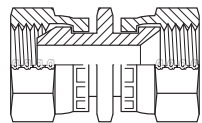
FEMALE JIC (SWIVEL) UNION



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

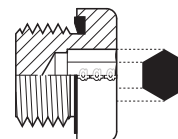
FEMALE BSPP X FEMALE JIC
SWIVEL



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 HOLLOW HEX SEALED
PLUG

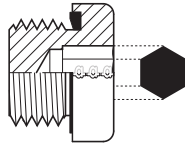


9028-02	9028-12
9028-04	9028-16
9028-06	9028-20
9028-08	9028-24

STEEL INTERNATIONAL ADAPTERS

9029

METRIC HOLLOW HEX SEALED PLUG

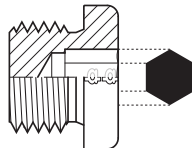


9029-08X1.0	9029-20X1.5
9029-10X1.0	9029-22X1.5
9029-12X1.5	9029-24X1.5
9029-14X1.5	9029-26X1.5
9029-16X1.5	9029-27X2.0
9029-18X1.5	9029-33X2.0

9029-42X2.0
9029-48X2.0

9029A

METRIC HOLLOW HEX PLUG (NO SEAL)

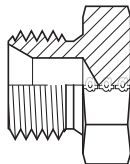


9029-10X1.0A	9029-22X1.5A
9029-12X1.5A	9029-24X1.5A
9029-14X1.5A	9029-30X2.0A
9029-16X1.5A	9029-33X2.0A
9029-18X1.5A	9029-36X1.5A
9029-20X1.5A	9029-36X2.0A

9029-38X1.5A
9029-42X1.5A
9029-42X2.0A
9029-48X1.5A

9030

MALE BSPP HEX PLUG

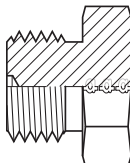


9030-02	9030-16
9030-04	9030-20
9030-06	9030-24
9030-08	9030-32
9030-10	9030-40
9030-12	9030-48

9030-64

9030M

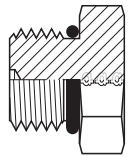
METRIC HEX PLUG



9030M-08X1.0	9030M-14X1.5	9030M-26X1.5
9030M-10X1.0	9030M-16X1.5	9030M-30X1.5
9030M-10X1.5	9030M-18X1.5	9030M-30X2.0
9030M-12X1.0	9030M-20X1.5	9030M-36X2.0
9030M-12X1.25	9030M-22X1.5	
9030M-12X1.5	9030M-24X1.5	

9030M-ISO

METRIC ISO 6149 HEX PLUG

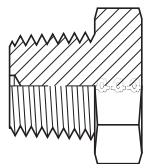


9030M-08X1.0ISO	9030M-14X1.5ISO
9030M-10X1.0ISO	9030M-16X1.5ISO
9030M-10X1.5ISO	9030M-18X1.5ISO
9030M-12X1.5ISO	9030M-22X1.5ISO

9030M-30X2.0ISO

9030T

BSPT HEX PLUG

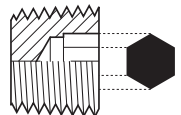


9030T-02	9030T-10
9030T-04	9030T-12
9030T-06	9030T-16
9030T-08	9030T-20

9030T-24
9030T-32

9030TCSP

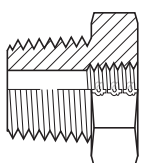
BSPT COUNTERSUNK PLUG



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

9031

MALE BSPT X FEMALE BSPT BUSHING



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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

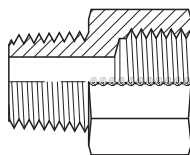
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9032

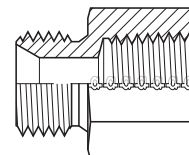
MALE BSPT X FEMALE BSP



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

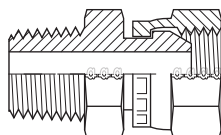
MALE BSPP X FEMALE BSPT



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

9032S

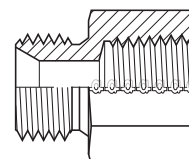
MALE BSPT X FEMALE BSPP SWIVEL



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

9035

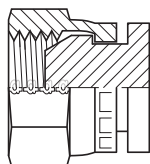
MALE BSPP X FEMALE NPT



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	

9033

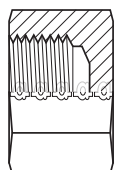
BSPP SWIVEL CAP



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

9033F

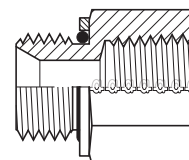
BSPP SOLID CAP



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

9035S

MALE BSPP X FEMALE NPT C/W OR & RR

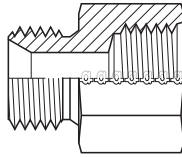


9035S-02-02	9035S-08-08	9035S-24-24
9035S-04-02	9035S-12-08	9035S-24-32
9035S-04-04	9035S-12-12	9035S-32-32
9035S-06-04	9035S-16-16	
9035S-06-06	9035S-20-16	
9035S-08-06	9035S-20-20	

STEEL INTERNATIONAL ADAPTERS

9036

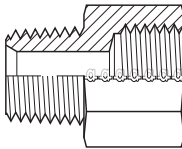
MALE BSPP X FEMALE SAE ORB
(SOLID)



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

9037

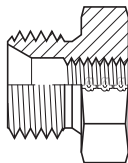
MALE NPT X FEMALE BSP



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

9038

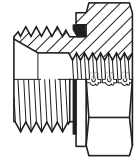
MALE BSPP X FEMALE BSP
BUSHING



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

9038ES

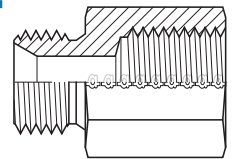
MALE BSPP X FEMALE BSP
BUSHING ES SEALED



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

9039

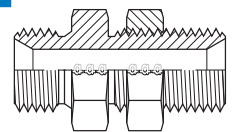
MALE BSPP X FEMALE BSP
EXTENDED BUSHING



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	

9040

MALE BSPP X MALE BSPP
BULKHEAD

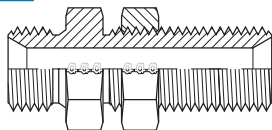


9040-02-02	9040-08-12	9040-16-20
9040-04-04	9040-10-10	9040-20-20
9040-04-06	9040-12-06	9040-20-24
9040-06-04	9040-12-08	9040-24-24
9040-06-06	9040-12-12	9040-32-32
9040-06-08	9040-12-16	
9040-08-06	9040-16-12	
9040-08-08	9040-16-16	

STEEL INTERNATIONAL ADAPTERS

9040L

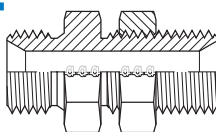
MALE BSPP X MALE BSPP
BULKHEAD LONG



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

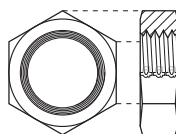
MALE BSPP X MALE METRIC
BULKHEAD



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

9041

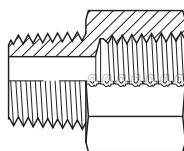
BSPP BULKHEAD LOCKNUT



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

9042

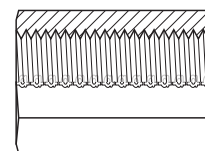
MALE BSPT X FEMALE NPT



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

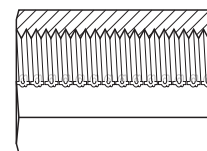
FEMALE BSP X FEMALE BSP
(SOLID)



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	

9043M

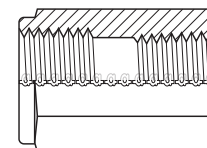
FEMALE METRIC X FEMALE
METRIC (SOLID)



9043M-08-08	9043M-16-12	9043M-22-20
9043M-10-10	9043M-16-16	9043M-22-22
9043M-12-12	9043M-18-18	9043M-24-24
9043M-14-10	9043M-20-18	9043M-26-26
9043M-14-12	9043M-20-20	9043M-27-27
9043M-14-14	9043M-22-16	9043M-30-30

9044

FEMALE BSP X FEMALE NPT
(SOLID)

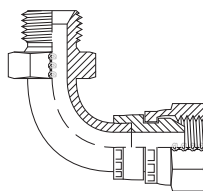


9044-02-02	9044-08-08	9044-24-24
9044-04-04	9044-12-08	9044-32-32
9044-06-04	9044-12-12	9044-40-40
9044-06-06	9044-12-16	9044-48-48
9044-08-04	9044-16-16	
9044-08-06	9044-20-20	

STEEL INTERNATIONAL ADAPTERS

9045

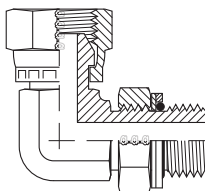
90° MALE BSPP X FEMALE BSPP
(SWIVEL) TUBE ELBOW



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

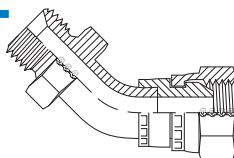
90° FEMALE BSPP (SWIVEL) X
MALE BSPP ADJ. ELBOW



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

9047

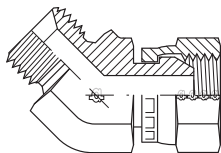
45° MALE BSPP X FEMALE BSPP
(SWIVEL) TUBE ELBOW



9047-02-04	9047-10-10
9047-04-04	9047-12-12
9047-06-06	9047-16-16
9047-08-08	9047-20-20

9048

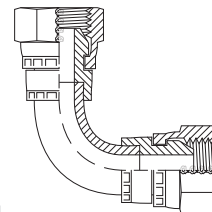
45° MALE BSPP X FEMALE BSPP
(SWIVEL) ELBOW



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

9050

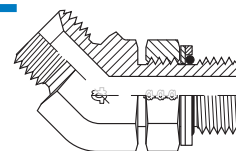
90° FEMALE BSPP (SWIVEL) X
FEMALE BSPP (SWIVEL) TUBE
ELBOW



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

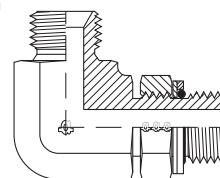
45° MALE BSPP X MALE BSPP
ADJ. ELBOW



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

9052

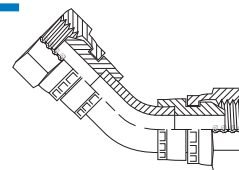
90° MALE BSPP X ADJ. MALE
BSPP ELBOW



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	

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

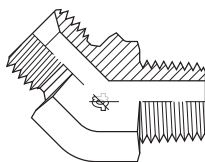
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9054

45° MALE BSPP X MALE BSPT ELBOW



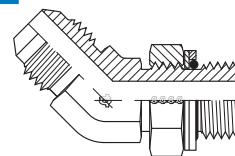
9054-04-02
9054-04-04
9054-04-06
9054-06-04

9054-06-06
9054-08-06
9054-08-08
9054-10-10

9054-12-12
9054-16-16

9058

45° MALE JIC X MALE BSPP ADJ. ELBOW



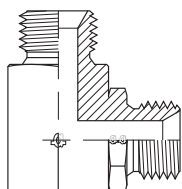
9058-04-02
9058-04-04
9058-06-04
9058-06-06

9058-08-06
9058-08-08
9058-10-08
9058-12-08

9058-12-12
9058-16-16

9055

90° MALE BSPP X MALE BSPP ELBOW



9055-02-02*
9055-04-04*
9055-06-04
9055-06-06*
9055-08-06
9055-08-08*

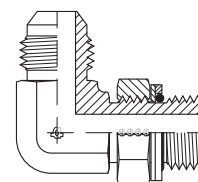
9055-10-10*
9055-12-08
9055-12-10
9055-12-12*
9055-16-12
9055-16-16*

9055-20-20
9055-24-24
9055-32-32

* FORGED BODY

9059

90° MALE JIC X MALE BSPP ADJ. ELBOW



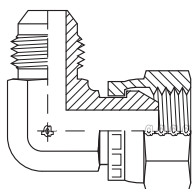
9059-04-02
9059-04-04
9059-04-06
9059-05-04
9059-05-06
9059-06-04
9059-06-06
9059-06-08

9059-08-04
9059-08-06
9059-08-08
9059-08-12
9059-10-06
9059-10-08
9059-10-12
9059-12-08

9059-12-12
9059-12-16
9059-16-12
9059-16-16
9059-16-20
9059-20-16
9059-20-20
9059-24-24

9056

90° MALE JIC X FEMALE BSPP (SWIVEL) ELBOW

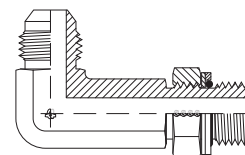


9056-04-04
9056-06-04
9056-06-06
9056-08-06

9056-08-08
9056-12-12
9056-16-16

9059L

90° MALE JIC X MALE BSPP ADJ. LONG ELBOW

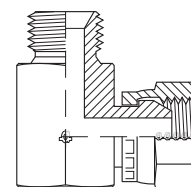


9059L-06-06
9059L-08-06

9059L-08-08

9060

90° MALE BSPP X FEMALE BSPP (SWIVEL) ELBOW



9060-02-02*
9060-04-04*
9060-04-06
9060-06-04
9060-06-06*
9060-06-08
9060-08-06
9060-08-08*

9060-08-10
9060-08-12
9060-10-10
9060-12-08
9060-12-12*
9060-12-16
9060-16-12
9060-16-16*

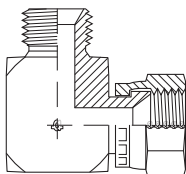
9060-20-20
9060-24-24
9060-32-32

* FORGED BODY

STEEL INTERNATIONAL ADAPTERS

9061

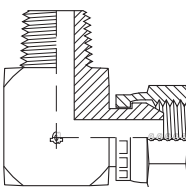
90° MALE BSPP X FEMALE JIC
(SWIVEL) ELBOW



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

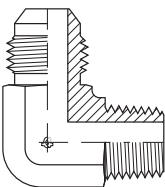
90° MALE BSPT X FEMALE BSPP
(SWIVEL) ELBOW



9062-02-02	9062-08-08	9062-24-24
9062-04-04	9062-12-12	
9062-06-04	9062-16-16	
9062-06-06	9062-20-20	

9063

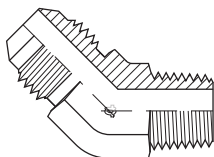
90° MALE JIC X MALE BSPT
ELBOW



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

9064

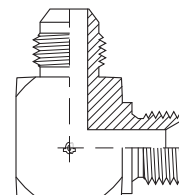
45° MALE JIC X MALE BSPT
ELBOW



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

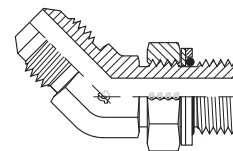
90° MALE JIC X MALE BSPP
ELBOW



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

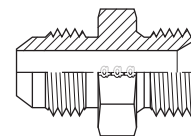
45° MALE JIC X MALE METRIC
ADJ ELBOW



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	

9067

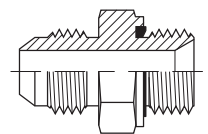
MALE JIC X MALE METRIC



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	

9067ES

MALE JIC X MALE METRIC C/W
ELASTOMERIC SEAL



9067ES-04-10	9067ES-06-18	9067ES-12-27
9067ES-04-12	9067ES-08-16	
9067ES-04-14	9067ES-08-18	
9067ES-06-12	9067ES-08-22	
9067ES-06-14	9067ES-10-22	
9067ES-06-16	9067ES-12-22	

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

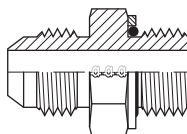
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9068

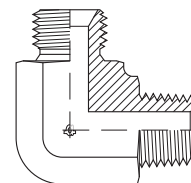
MALE JIC X MALE METRIC C/W
OR & RR



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	

9070

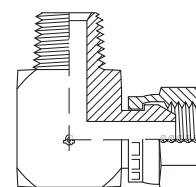
90° MALE BSPP X MALE NPT
ELBOW



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

9072

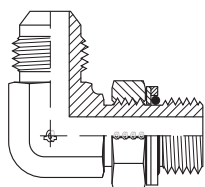
90° MALE NPT X FEMALE BSPP
(SWIVEL) ELBOW



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

9069

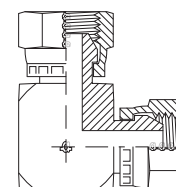
90° MALE JIC X MALE METRIC
ADJ. ELBOW



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

9075

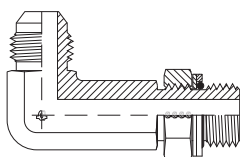
90° FEMALE BSPP X FEMALE
BSPP (SWIVEL) ELBOW



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	

9069L

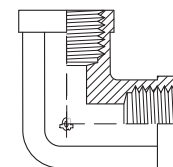
90° MALE JIC X MALE METRIC
ADJ. LONG ELBOW



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

9076

90° FEMALE BSP X FEMALE BSP
(SOLID) ELBOW

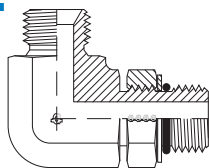


9076-02-02	9076-12-12
9076-04-04	9076-16-16
9076-06-06	9076-20-20
9076-08-08	9076-24-24

STEEL INTERNATIONAL ADAPTERS

9077

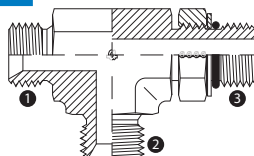
90° MALE BSPP X MALE ORB
ADJ. ELBOW



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

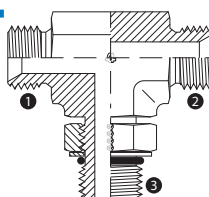
MALE BSPP X MALE ORB
ADJ. RUN TEE



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

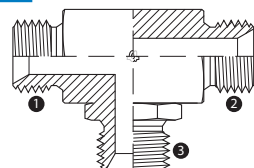
MALE BSPP X MALE ORB ADJ.
BRANCH TEE



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

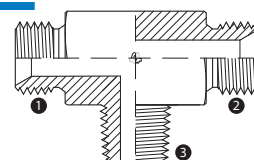


9080-02-02-02	9080-08-08-08*	9080-16-16-08
9080-04-04-04*	9080-08-08-12	9080-16-16-16
9080-04-04-06	9080-10-10-10	9080-20-20-20
9080-06-06-04	9080-12-12-08	9080-24-24-24
9080-06-06-06*	9080-12-12-12	9080-32-32-32
9080-06-06-08	9080-12-12-16	

* FORGED BODY

9080T

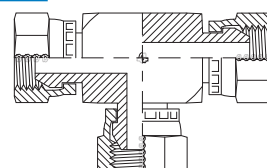
MALE BSPP X MALE BSPT
BRANCH TEE



9080-02-02-02T	9080-08-08-08T	9080-20-20-20T
9080-04-04-04T	9080-10-10-10T	
9080-04-04-06T	9080-12-12-12T	
9080-06-06-06T	9080-16-16-16T	

9085

FEMALE BSPP SWIVEL TEE

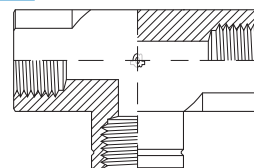


9085-02-02-02	9085-10-10-10	9085-24-24-24
9085-04-04-04	9085-12-12-12	9085-32-32-32
9085-06-06-06*	9085-16-16-16	
9085-08-08-08*	9085-20-20-20	

* FORGED BODY

9086

FEMALE BSP SOLID TEE

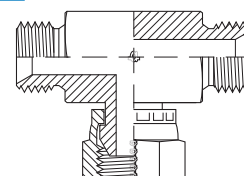


9086-02-02-02*	9086-10-10-10
9086-04-04-04*	9086-12-12-12
9086-06-06-06*	9086-16-16-16
9086-08-08-08*	9086-20-20-20

* 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

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

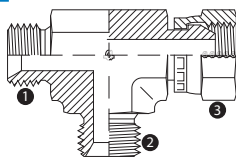
QUICK REFERENCE

ABOUT

STEEL INTERNATIONAL ADAPTERS

9090

FEMALE BSPP (SWIVEL)
RUN TEE

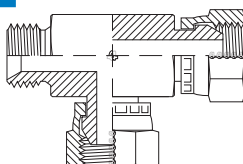


9090-02-02-02	9090-06-08-08	9090-16-16-16*
9090-04-04-04*	9090-08-08-08*	9090-20-20-20
9090-04-06-06	9090-10-10-10*	9090-24-24-24
9090-06-04-06	9090-12-12-06	
9090-06-06-04	9090-12-12-08	
9090-06-06-06*	9090-12-12-12*	

* FORGED BODY

9095

MALE BSPP (SWIVEL) RUN TEE

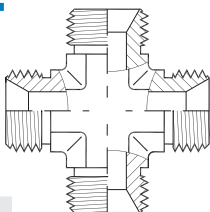


9095-02-02-02	9095-10-10-10
9095-04-04-04*	9095-12-12-12*
9095-06-06-06*	9095-16-16-16
9095-08-08-08*	9095-20-20-20

* FORGED BODY

9096

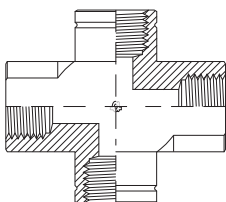
MALE BSPP CROSS



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

9097

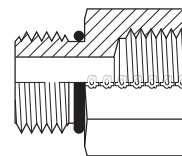
FEMALE BSP CROSS (SOLID)



9097-04	9097-08	9097-16
9097-06	9097-12	9097-20

9120

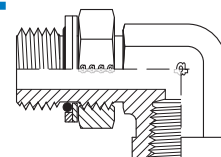
MALE ORB X FEMALE BSP



9120-04-04	9120-08-04	9120-12-08
9120-04-06	9120-08-06	9120-12-12
9120-06-04	9120-08-08	
9120-06-06	9120-10-08	

9135

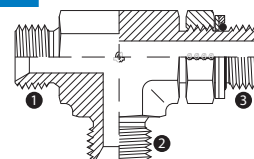
90° MALE BSPP ADJ. X FEMALE
NPT ELBOW



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

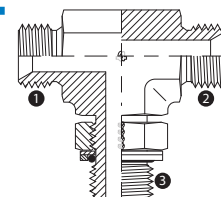
MALE BSPP ADJ. RUN TEE



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

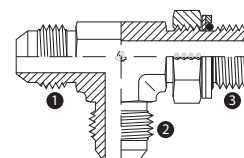
MALE BSPP ADJ. BRANCH TEE



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

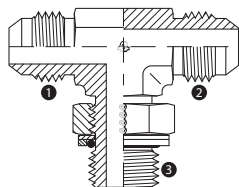


9158-04-04-04	9158-08-08-06	9158-16-16-16
9158-05-05-04	9158-08-08-08	9158-20-20-20
9158-06-06-04	9158-10-10-08	
9158-06-06-06	9158-12-12-12	

STEEL INTERNATIONAL ADAPTERS

9159

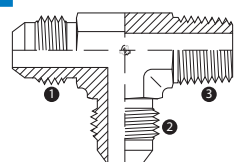
MALE JIC X MALE BSPP
BRANCH TEE



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	

9163

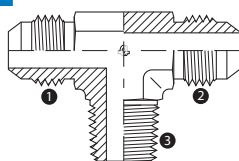
MALE JIC X MALE BSPT
RUN TEE



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

9164

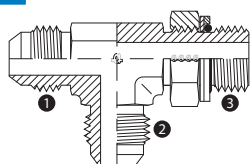
MALE JIC X MALE BSPT
BRANCH TEE



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

9168

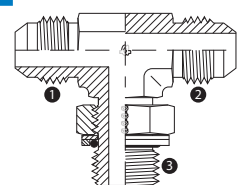
MALE JIC X MALE METRIC
RUN TEE



9168-04-04-12	9168-10-10-22
9168-06-06-14	9168-12-12-27
9168-08-08-16	9168-16-16-33
9168-08-08-18	

9169

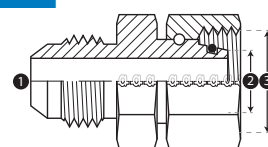
MALE JIC X MALE METRIC
BRANCH TEE



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

9197

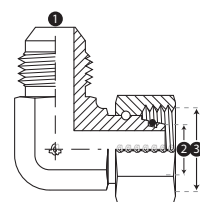
MALE JIC X FEMALE
METRIC DIN/DKO (SWIVEL)



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

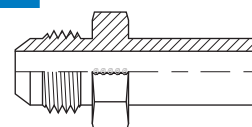
90° MALE JIC X FEMALE METRIC
DIN/DKO (SWIVEL) ELBOW



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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

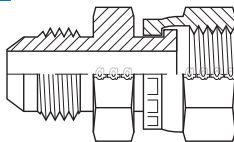
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9210

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

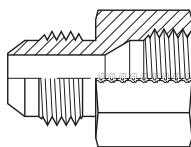


9210-04-04	9210-08-08*	9210-12-08
9210-06-04	9210-08-10	9210-12-12
9210-06-06	9210-08-12	9210-12-16
9210-06-08	9210-10-08	9210-16-12
9210-08-04	9210-10-10	9210-16-16
9210-08-06	9210-10-12	9210-20-20

* Fixed

9220

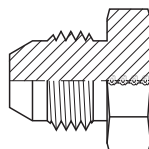
MALE JIC X SOLID FEMALE JIS



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

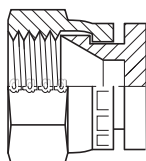
JIS HEX PLUG



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

9222

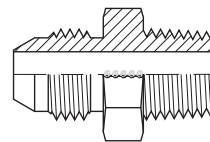
JIS SWIVEL CAP



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

9223

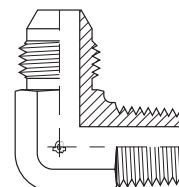
MALE JIS X MALE BSPT



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

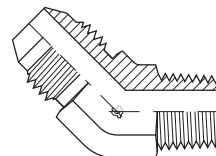
90° MALE JIS X MALE BSPT
ELBOW



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

9225

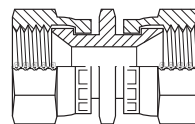
45° MALE JIS X MALE BSPT
ELBOW



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

9226

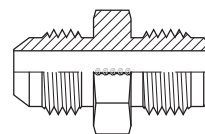
FEMALE JIC X FEMALE JIS
SWIVEL



9226-06-06
9226-08-08

9228

MALE JIC X 50° MALE NISSAN
(METRIC THREAD)

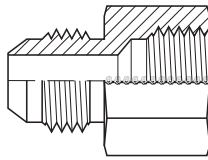


9228-06-16

STEEL INTERNATIONAL ADAPTERS

9229

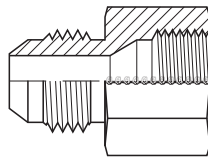
MALE JIC X 50° FEMALE NISSAN
(METRIC THREAD)



9229-06-16

9230

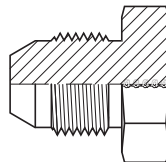
MALE JIC X FEMALE KOMATSU



9230-04-12	9230-08-22
9230-04-14	9230-10-24
9230-06-16	9230-12-30
9230-06-18	9230-16-33

9231

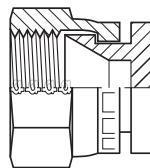
KOMATSU PLUG



9231-14	9231-24	9231-42
9231-16	9231-30	
9231-18	9231-33	
9231-22	9231-36	

9232

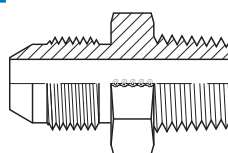
KOMATSU SWIVEL CAP



9232-14	9232-24
9232-16	9232-30
9232-18	9232-33
9232-22	9232-42

9233

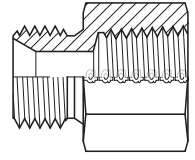
MALE KOMATSU X MALE BSPT



9233-14-02
9233-16-04

9234

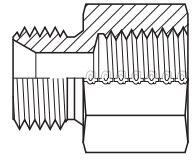
MALE METRIC X FEMALE BSPT



9234-08X1.0-02

9235

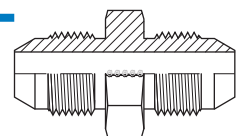
MALE METRIC X FEMALE NPT



9235-04X.70-02	9235-20-06
9235-06X.75-02	9235-20-08
9235-06X.75-04	9235-22-04
9235-06X1.0-02	9235-22-06
9235-08X1.0-02	9235-22-08
9235-08X1.25-02	9235-22-12
9235-10-02	9235-24-12
9235-10-04	9235-26-04
9235-10-06	9235-26-08
9235-10X1.25-02	9235-26-12
9235-10X1.5-02	9235-27X1.5-12
9235-10X1.5-04	9235-27-12
9235-12-02	9235-28X1.25-08
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	9235-30-08
9235-12X1.25-04	9235-30-12
9235-12X1.75-04	9235-33X1.5-08
9235-14-04	9235-33-16
9235-14-06	9235-36-16
9235-16-04	9235-38X1.5-20
9235-16-06	9235-40-24
9235-16-08	9235-42-16
9235-18-04	9235-42-20
9235-18-06	9235-42X1.5-24
9235-18-08	9235-48-24
9235-20-04	

9236

MALE KOMATSU X MALE KOMATSU



9236-14-14	9236-22-22
9236-16-16	9236-24-24
9236-18-18	9236-30-30
9236-20-20	9236-33-33

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

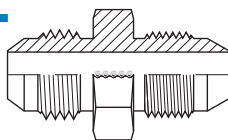
BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

9237

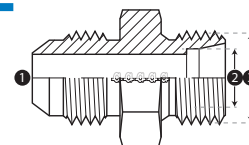
MALE JIC X MALE KOMATSU



9237-04-14	9237-10-24
9237-06-16	9237-12-30
9237-06-18	9237-16-33
9237-08-22	

9245

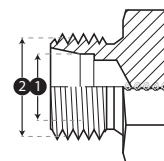
MALE JIC X MALE JSW
TUBE END



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

9246

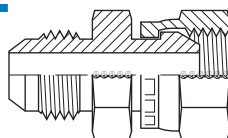
MALE JSW TUBE PLUG



9246-25-34

9240

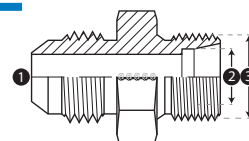
MALE JIC X FEMALE BSPP
(SWIVEL)



9240-04-02	9240-08-06	9240-12-16
9240-04-04	9240-08-08	9240-14-12
9240-04-06	9240-08-10	9240-16-12
9240-04-08	9240-08-12	9240-16-16
9240-05-04	9240-10-06	9240-20-20
9240-05-06	9240-10-08	9240-20-24
9240-05-08	9240-10-10	9240-24-24
9240-06-04	9240-10-12	9240-32-32
9240-06-06	9240-12-08	
9240-06-08	9240-12-12	

9247

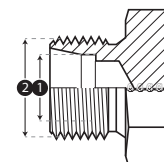
MALE JIC X MALE KOBELCO



9247-12-22-30	9247-16-22-30	9247-16-35-45
9247-12-28-36	9247-16-28-36	9247-20-35-45

9248

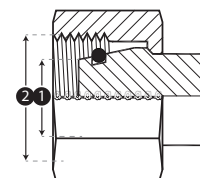
KOBELCO TUBE PLUG



9248-22-30	9248-35-45
9248-28-36	

9249

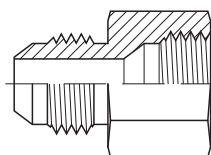
KOBELCO (SWIVEL) CAP



9249-22-30	9249-35-45
9249-28-36	

9241

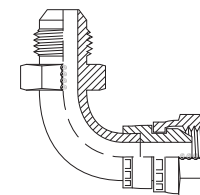
MALE JIC X FEMALE GB
37°/74° METRIC



9241-04-12	9241-10-24	9241-20-45
9241-04-14	9241-12-26	9241-24-52
9241-06-16	9241-12-30X1.5	
9241-06-18	9241-12-30X2.0	
9241-08-20	9241-16-36	
9241-08-22	9241-20-42	

9250

90° MALE JIC X FEMALE BSPP
SWIVEL ELBOW

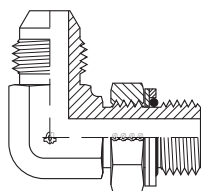


9250-04-04	9250-08-08	9250-12-12
9250-06-06	9250-10-10	9250-16-16

STEEL INTERNATIONAL ADAPTERS

9259

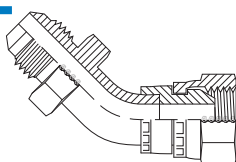
90° MALE JIS X MALE BSPP ADJ. ELBOW



9259-06-06
9259-08-08

9260

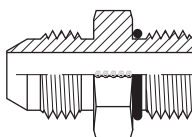
45° MALE JIC X FEMALE BSPP SWIVEL ELBOW



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

9277

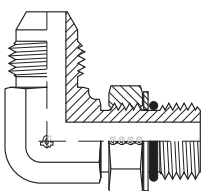
MALE JIS X MALE SAE ORB



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

9278

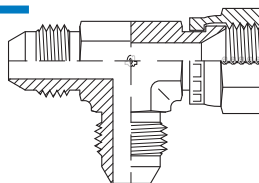
90° MALE JIS X MALE SAE ORB ADJ. ELBOW



9278-04-04
9278-08-06

9291

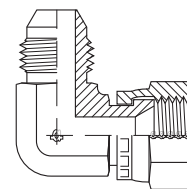
FEMALE JIS RUN TEE



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

9292

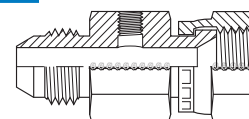
90° MALE JIS X FEMALE JIS (SWIVEL) ELBOW



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

9293TP

JIS TEST PORT TEE (SWIVEL)

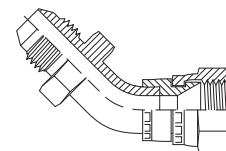


9293TP-04-04-02**
9293TP-06-06-02**
9293TP-08-08-10x1*

* Test Port = Female M10x1.0
**Test Port = Female 1/8" BSPP

9294

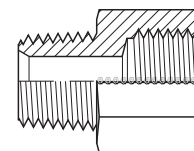
45° MALE JIS X FEMALE JIS SWIVEL ELBOW



9294-04-04 9294-08-08
9294-06-06

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	

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

9327

FEMALE KOMATSU X FEMALE KOMATSU (SWIVEL)



9327-14-14

9327-22-22

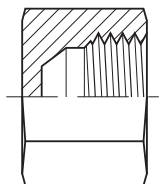
9327-30-30

9327-18-18

9327-24-24

9332

GB 37°/74° METRIC CAP



9332-14X1.5

9332-26X1.5

9332-16X1.5

9332-30X1.5

9332-18X1.5

9332-30X2.0

9332-20X1.5

9332-36X2.0

9332-22X1.5

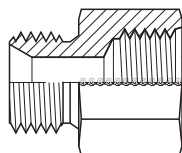
9332-45X2.0

9332-24X1.5

9332-52x2.0

9335

MALE METRIC X FEMALE SAE ORB



9335-08X1.0-04

9335-16-06

9335-26-12

9335-12X1.0-04

9335-18-08

9335-27-12

9335-12-06

9335-22-06

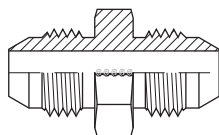
9335-33-16

9335-14-06

9335-22-10

9336

MALE JIS X MALE JIS



9336-02-02

9336-12-12

9336-04-04

9336-16-16

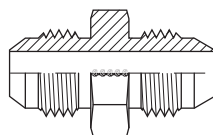
9336-06-06

9336-20-20

9336-08-08

9337

MALE JIC X MALE JIS



9337-04-02

9337-06-06

9337-12-12

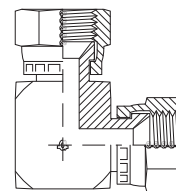
9337-04-04

9337-08-08

9337-16-16

9355

90° FEMALE JIC X FEMALE JIC (SWIVEL) ELBOW



9355-04-04

9355-10-10

9355-05-05

9355-12-12

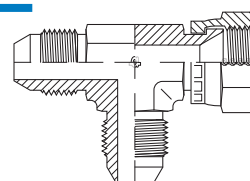
9355-06-06

9355-16-16

9355-08-08

9391

FEMALE KOMATSU RUN TEE



9391-14-14-14

9391-24-24-24

9391-16-16-16

9391-30-30-30

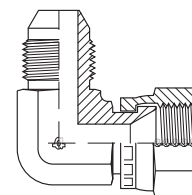
9391-18-18-18

9391-33-33-33

9391-22-22-22

9392

90° MALE KOMATSU X FEMALE KOMATSU (SWIVEL) ELBOW



9392-14-14

9392-24-24

9392-16-16

9392-30-30

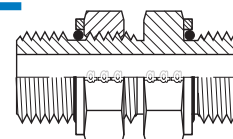
9392-18-18

9392-33-33

9392-22-22

9474

BSPF ADJUSTABLE NIPPLE C/W OR & RR



9474-02-02

9474-12-12

9474-04-04

9474-16-16

9474-06-06

9474-20-20

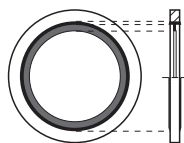
9474-08-08

9474-24-24

STEEL INTERNATIONAL ADAPTERS

9500

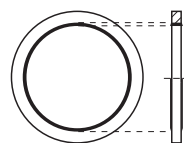
BONDED SEAL FOR BSPP THREAD



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

9500-NSC

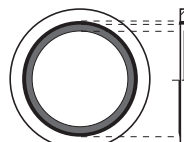
BONDED SEAL FOR BSPP THREAD
NON-SELF CENTERING



9500-02NSC	9500-08NSC
9500-04NSC	9500-10NSC
9500-06NSC	9500-20NSC

9500V

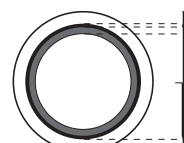
BONDED VITON SEAL FOR BSPP
THREAD



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

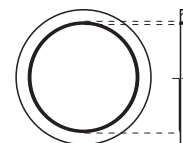
BONDED SEAL FOR METRIC
THREAD



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	

9500MM-NSC

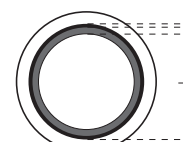
BONDED SEAL FOR METRIC
THREAD NON-SELF CENTERING



9500-10MMNSC	9500-14MMNSC	9500-20MMNSC
9500-12MMNSC	9500-18MMNSC	9500-22MMNSC

9500MM-V

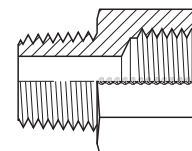
BONDED VITON SEAL FOR
METRIC THREAD



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

9536

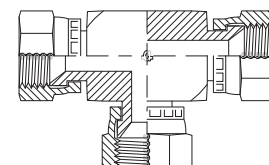
MALE BSPT X FEMALE SAE ORB



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

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

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

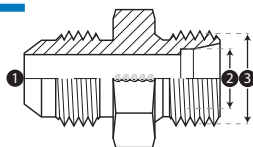
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9605

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

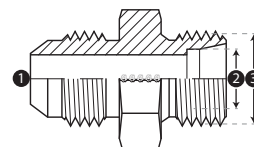


9605-04-06X1.0*	9605-08-L10-16
9605-04-08X1.0*	9605-08-L12-18
9605-04-08X1.25*	9605-08-L15-22
9605-04-10X1.25*	9605-10-25X1.5*
9605-04-10X1.5*	9605-10-L12-18
9605-04-12X1.0*	9605-10-L15-22
9605-04-L06-12	9605-10-L18-26
9605-04-L08-14	9605-12-25X1.5*
9605-04-L10-16	9605-12-30X1.5*
9605-04-LL06-10	9605-12-L15-22
9605-04-LL08-12	9605-12-L18-24X1.5
9605-05-L08-14	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*	

* PORT ONLY

9606

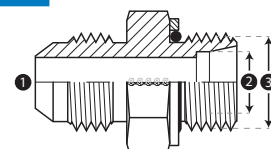
MALE JIC X MALE METRIC
DIN (HEAVY DUTY)



9606-04-S06-14	9606-10-S16-24
9606-04-S08-16	9606-10-S25-36
9606-04-S10-18	9606-12-S16-24
9606-05-S10-18	9606-12-S20-30
9606-06-S08-16	9606-12-S25-36
9606-06-S10-18	9606-16-S20-30
9606-06-S12-20	9606-16-S25-36
9606-06-S14-22	9606-16-S30-42
9606-08-S10-18	9606-20-S30-42
9606-08-S12-20	9606-20-S38-52
9606-08-S14-22	9606-24-S38-52
9606-08-S16-24	
9606-10-S12-20	
9606-10-S14-22	

9606S

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

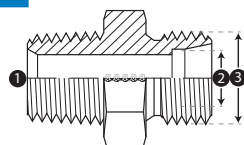


9606S-04-S06-14	9606S-12-S16-24
9606S-04-S08-16	9606S-12-S20-30
9606S-06-S08-16	9606S-12-S25-36
9606S-06-S10-18	9606S-16-S20-30
9606S-06-S12-20	9606S-16-S25-36
9606S-06-S14-22	9606S-16-S30-42
9606S-08-S10-18	9606S-20-S30-42
9606S-08-S12-20	9606S-20-S38-52
9606S-08-S16-24	9606S-24-S38-52
9606S-10-S12-20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

STEEL INTERNATIONAL ADAPTERS

9607

MALE NPT X
MALE DIN METRIC

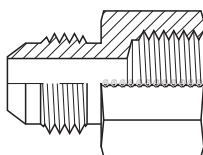


9607-02-12*	9607-08-16*
9607-02-LL06-10	9607-08-L12-18
9607-04-08X1.25*	9607-08-L15-22
9607-04-10X1.0*	9607-08-S12-20
9607-04-12X1.25*	9607-16-30*
9607-04-14*	9607-24-38X1.5*
9607-06-12X1.25*	9607-24-S30-42
9607-06-18*	
9607-06-L12-18	
9607-08-12X1.25*	

* PORT ONLY

9622

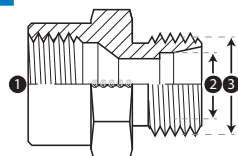
MALE JIC X FEMALE METRIC
(SOLID)



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

9624

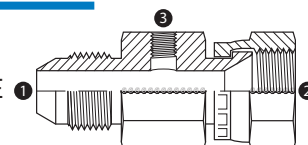
FEMALE JIC X MALE METRIC
DIN (LIGHT & HEAVY DUTY)



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

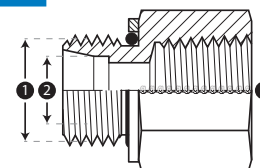


9634TP-14-14-02*	9634TP-22-22-06	9634TP-30-30-06
9634TP-18-18-04	9634TP-24-24-06	9634TP-33-33-08

* TEST PORT IS NPT, ALL OTHERS ARE ORB

9635S

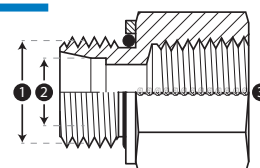
MALE METRIC DIN (LIGHT
DUTY) C/W OR & RR X
FEMALE NPT



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

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	

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

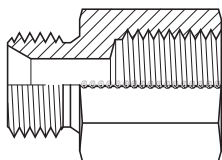
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

9638

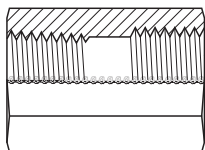
MALE METRIC X FEMALE
METRIC BUSHING



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

9643

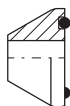
FEMALE NPT X FEMALE METRIC
(SOLID)



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

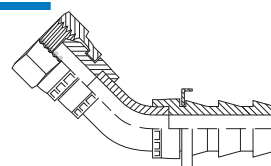
FEMALE BSPP (SWIVEL)
X HOSE BARB



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

9905

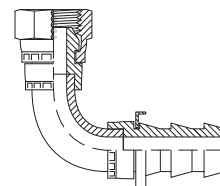
45° FEMALE BSPP (SWIVEL)
X HOSE BARB ELBOW



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

9910

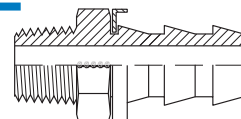
90° FEMALE BSPP (SWIVEL)
X HOSE BARB ELBOW



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

9915

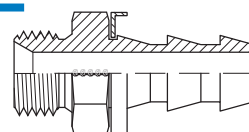
MALE BSPT X HOSE BARB



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

9920

MALE BSPP X HOSE BARB

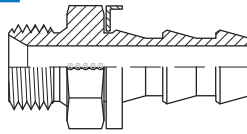


9920-04-04	9920-08-08	9920-16-16
9920-06-06	9920-12-12	

STEEL INTERNATIONAL ADAPTERS

9921

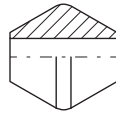
MALE BSPP X HOSE BARB
(NEEDS CLAMP)



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

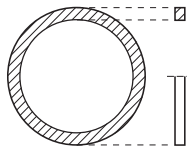
BSPP TO JIS CONVERSION SEAT



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

CWM

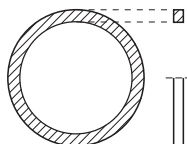
COPPER WASHER METRIC



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

CWR

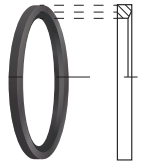
COPPER WASHER BSPP



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

ESB

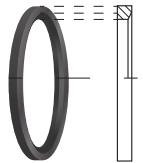
BSPP ELASTOMERIC SEAL



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

ESB (V)

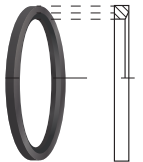
BSPP ELASTOMERIC SEAL
(VITON)



ESB-02V	ESB-12V
ESB-04V	ESB-16V
ESB-06V	ESB-20V
ESB-08V	

ESM

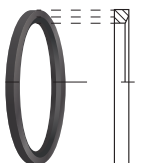
METRIC ELASTOMERIC SEAL



ESM-10	ESM-18	ESM-27
ESM-12	ESM-20	ESM-33
ESM-14	ESM-22	ESM-42
ESM-16	ESM-26	ESM-48

ESM (V)

METRIC ELASTOMERIC SEAL
(VITON)



ESM-10V	ESM-18V	ESM-33V
ESM-12V	ESM-22V	
ESM-14V	ESM-26V	
ESM-16V	ESM-27V	

STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON

QUICK REFERENCE

ABOUT

OR

O-RING FOR BSPP THREAD



OR-02
OR-04
OR-06
OR-08

OR-12
OR-16
OR-20
OR-24

ORFS

O-RING FOR O-RING FACE SEAL



ORFS-04
ORFS-06
ORFS-08
ORFS-10

ORFS-12
ORFS-16
ORFS-20
ORFS-24

OR (V)

VITON O-RING FOR BSPP THREAD



OR-02V
OR-04V

OR-06V
OR-08V

OR-12V
OR-16V

SAE ORB O-RING

O-RING FOR SAE ORB THREAD



3-904
3-905
3-906
3-908

3-910
3-912
3-916
3-920

3-924
3-932

OR-JIS

JIS B2351 O-RING



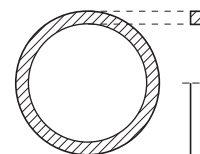
OR-04-JIS
OR-06-JIS

OR-08-JIS
OR-12-JIS

OR-16-JIS

RR

RETAINING RING BSPP



RR-02
RR-04
RR-06
RR-08

RR-12
RR-16
RR-20
RR-24

OR-MM

O-RING FOR METRIC THREAD



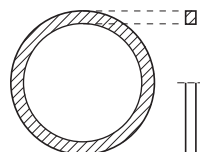
OR-08MM
OR-10MM
OR-12MM
OR-14MM
OR-16MM
OR-18MM

OR-20MM
OR-22MM
OR-26MM
OR-27MM
OR-30MM
OR-33MM

OR-42MM

RR-MM

RETAINING RING METRIC



RR-10MM
RR-12MM
RR-14MM
RR-16MM
RR-18MM
RR-20MM

RR-22MM
RR-24MM
RR-26MM
RR-27MM
RR-30MM
RR-33MM

RR-42MM
RR-48MM

OR-MM (V)

VITON O-RING FOR METRIC THREAD



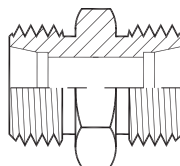
OR-10MMV
OR-12MMV
OR-14MMV
OR-16MMV

OR-18MMV
OR-20MMV
OR-22MMV

STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

SS5000L

STAINLESS DIN UNION LIGHT DUTY

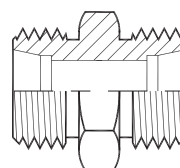


SS5000L-06	SS5000L-15
SS5000L-08	SS5000L-18
SS5000L-10	SS5000L-22
SS5000L-12	SS5000L-28

SS5000L-35
SS5000L-42

SS5000S

STAINLESS DIN UNION HEAVY DUTY

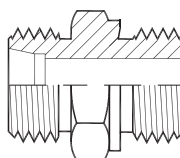


SS5000S-06	SS5000S-14
SS5000S-08	SS5000S-16
SS5000S-10	SS5000S-20
SS5000S-12	SS5000S-25

SS5000S-30
SS5000S-38

SS5001L

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

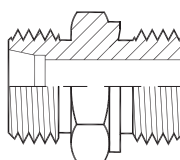


SS5001L-06-02	SS5001L-10-08
SS5001L-06-04	SS5001L-12-04
SS5001L-08-02	SS5001L-12-06
SS5001L-08-04	SS5001L-12-08
SS5001L-10-04	SS5001L-15-06
SS5001L-10-06	SS5001L-15-08

SS5001L-18-08
SS5001L-18-12
SS5001L-22-12
SS5001L-28-16

SS5001S

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

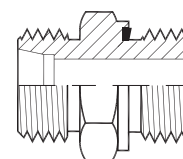


SS5001S-06-04	SS5001S-12-04
SS5001S-08-04	SS5001S-12-06
SS5001S-08-06	SS5001S-12-08
SS5001S-10-04	SS5001S-14-08
SS5001S-10-06	SS5001S-16-06
SS5001S-10-08	SS5001S-16-08

SS5001S-16-12
SS5001S-20-08
SS5001S-20-12
SS5001S-25-12
SS5001S-25-16
SS5001S-30-16

SS5002L

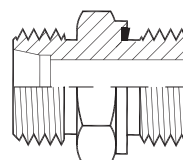
STAINLESS DIN LIGHT DUTY X MALE BSPP ES SEAL



SS5002L-06-02	SS5002L-10-08	SS5002L-22-08
SS5002L-06-04	SS5002L-12-04	SS5002L-22-12
SS5002L-06-08	SS5002L-12-06	SS5002L-22-16
SS5002L-08-02	SS5002L-12-08	SS5002L-28-16
SS5002L-08-04	SS5002L-15-06	SS5002L-35-20
SS5002L-08-06	SS5002L-15-08	SS5002L-42-16
SS5002L-10-04	SS5002L-18-08	SS5002L-42-24
SS5002L-10-06	SS5002L-18-12	

SS5002S

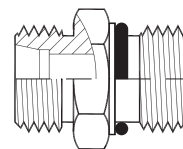
STAINLESS DIN HEAVY DUTY X MALE BSPP ES SEAL



SS5002S-06-04	SS5002S-12-08	SS5002S-25-16
SS5002S-08-04	SS5002S-14-08	SS5002S-30-12
SS5002S-08-06	SS5002S-16-06	SS5002S-30-16
SS5002S-10-04	SS5002S-16-08	SS5002S-30-20
SS5002S-10-06	SS5002S-16-12	SS5002S-38-24
SS5002S-10-08	SS5002S-20-08	
SS5002S-12-04	SS5002S-20-12	
SS5002S-12-06	SS5002S-25-12	

SS5006L

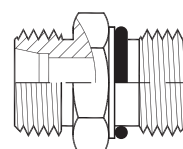
STAINLESS MALE DIN X MALE SAE ORB LIGHT DUTY



SS5006L-08-06	SS5006L-15-08	SS5006L-28-16
SS5006L-10-04	SS5006L-18-08	SS5006L-35-20
SS5006L-12-06	SS5006L-18-10	SS5006L-42-24
SS5006L-12-08	SS5006L-22-12	

SS5006S

STAINLESS MALE DIN X MALE SAE ORB HEAVY DUTY



SS5006S-10-04	SS5006S-16-08	SS5006S-25-16
SS5006S-12-06	SS5006S-16-08	SS5006S-38-24
SS5006S-14-06	SS5006S-20-08	
SS5006S-14-08	SS5006S-20-10	

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

FEATURED

STEEL

STAINLESS STEEL

BRASS

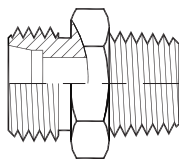
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

SS5007L

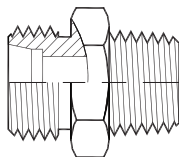
STAINLESS DIN LIGHT DUTY X
MALE NPT



SS5007L-06-02	SS5007L-12-06	SS5007L-35-20
SS5007L-06-04	SS5007L-12-08	SS5007L-42-24
SS5007L-08-04	SS5007L-15-08	
SS5007L-10-04	SS5007L-18-08	
SS5007L-10-06	SS5007L-22-12	
SS5007L-12-04	SS5007L-28-16	

SS5007S

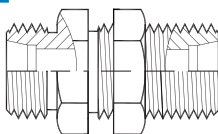
STAINLESS DIN HEAVY DUTY X
MALE NPT



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

SS5040L

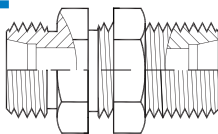
STAINLESS DIN BULKHEAD
UNION LIGHT DUTY



SS5040L-06	SS5040L-15	SS5040L-35
SS5040L-08	SS5040L-18	SS5040L-42
SS5040L-10	SS5040L-22	
SS5040L-12	SS5040L-28	

SS5040S

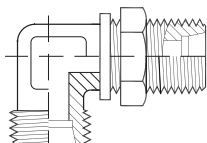
STAINLESS DIN BULKHEAD
UNION HEAVY DUTY



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

SS5042L

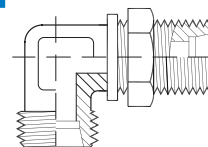
STAINLESS 90° DIN LIGHT DUTY
BULKHEAD UNION



SS5042L-06	SS5042L-15	SS5042L-35
SS5042L-08	SS5042L-18	SS5042L-42
SS5042L-10	SS5042L-22	
SS5042L-12	SS5042L-28	

SS5042S

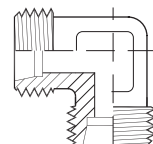
STAINLESS 90° DIN HEAVY DUTY
BULKHEAD UNION



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

SS5055L

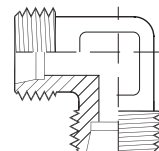
STAINLESS 90° DIN UNION LIGHT
DUTY ELBOW



SS5055L-06	SS5055L-15	SS5055L-35
SS5055L-08	SS5055L-18	SS5055L-42
SS5055L-10	SS5055L-22	
SS5055L-12	SS5055L-28	

SS5055S

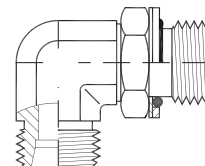
STAINLESS 90° DIN UNION HEAVY
DUTY ELBOW



SS5055S-06	SS5055S-14	SS5055S-30
SS5055S-08	SS5055S-16	SS5055S-38
SS5055S-10	SS5055S-20	
SS5055S-12	SS5055S-25	

SS5059L

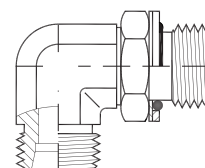
STAINLESS 90° DIN LIGHT DUTY X
MALE BSPP ADJUSTABLE ELBOW



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

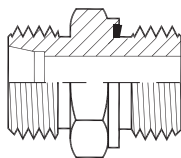


SS5059S-06-04	SS5059S-16-08
SS5059S-08-04	SS5059S-20-12
SS5059S-10-06	SS5059S-25-16
SS5059S-12-06	SS5059S-30-20

STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

SS5068L

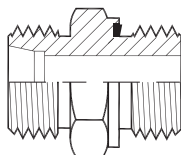
STAINLESS DIN LIGHT DUTY X
MALE METRIC ES SEAL



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	

SS5068S

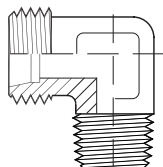
STAINLESS DIN HEAVY DUTY X
MALE METRIC ES SEAL



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

SS5070L

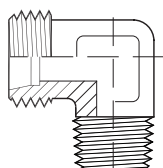
90° STAINLESS MALE DIN X MALE
NPT ELBOW LIGHT DUTY



SS5070L-08-04	SS5070L-12-04	SS5070L-12-08
SS5070L-10-04	SS5070L-12-06	SS5070L-18-08

SS5070S

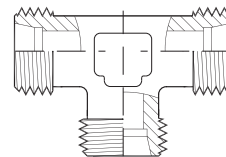
90° STAINLESS MALE DIN X MALE
NPT ELBOW HEAVY DUTY



SS5070S-06-04	SS5070S-16-06
SS5070S-10-04	SS5070S-16-08
SS5070S-12-04	SS5070S-16-12
SS5070S-12-06	SS5070S-20-12

SS5080L

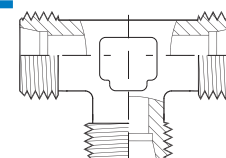
STAINLESS DIN UNION TEE
LIGHT DUTY



SS5080L-06	SS5080L-15	SS5080L-35
SS5080L-08	SS5080L-18	SS5080L-42
SS5080L-10	SS5080L-22	
SS5080L-12	SS5080L-28	

SS5080S

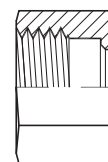
STAINLESS DIN UNION TEE
HEAVY DUTY



SS5080S-06	SS5080S-14	SS5080S-30
SS5080S-08	SS5080S-16	SS5080S-38
SS5080S-10	SS5080S-20	
SS5080S-12	SS5080S-25	

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	

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

SS5202

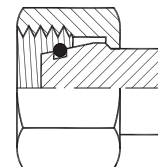
STAINLESS DIN 5253 CUTTING RING



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	

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	

SS5202OR

STAINLESS DIN 2353 SOFT-SEALING CUTTING RING



SS5202OR-08	SS5202OR-15	SS5202OR-22
SS5202OR-10	SS5202OR-16	
SS5202OR-12	SS5202OR-18	
SS5202OR-14	SS5202OR-20	

SS5204P

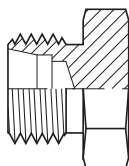
STAINLESS DIN BLANKING PLUG (REQUIRES SS5201 TUBE NUT TO FORM A CAP)



SS5204P-06	SS5204P-16	SS5204P-30
SS5204P-08	SS5204P-18	SS5204P-35
SS5204P-10	SS5204P-20	SS5204P-38
SS5204P-12	SS5204P-22	SS5204P-42
SS5204P-14	SS5204P-25	
SS5204P-15	SS5204P-28	

SS5203L

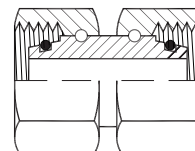
STAINLESS DIN LIGHT DUTY TUBE PLUG



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

SS5300L

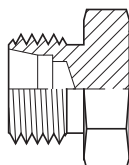
STAINLESS FEMALE DIN LIGHT DUTY SOFT SEAL UNION



SS5300L-06	SS5300L-15	SS5300L-35
SS5300L-08	SS5300L-18	SS5300L-42
SS5300L-10	SS5300L-22	
SS5300L-12	SS5300L-28	

SS5203S

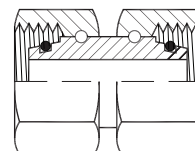
STAINLESS DIN HEAVY DUTY TUBE PLUG



SS5203S-06	SS5203S-14	SS5203S-30
SS5203S-08	SS5203S-16	SS5203S-38
SS5203S-10	SS5203S-20	
SS5203S-12	SS5203S-25	

SS5300S

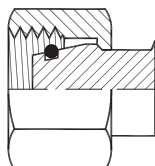
STAINLESS FEMALE DIN HEAVY DUTY SOFT SEAL UNION



SS5300S-06	SS5300S-14	SS5300S-30
SS5300S-08	SS5300S-16	SS5300S-38
SS5300S-10	SS5300S-20	
SS5300S-12	SS5300S-25	

SS5204L

STAINLESS DIN LIGHT DUTY TUBE CAP

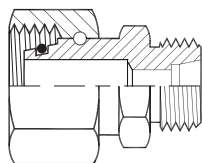


SS5204L-06	SS5204L-15	SS5204L-35
SS5204L-08	SS5204L-18	
SS5204L-10	SS5204L-22	
SS5204L-12	SS5204L-28	

STAINLESS STEEL 24° DIN TUBE FITTINGS/ADAPTERS

SS5315L

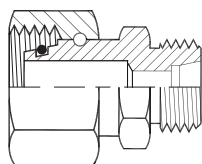
STAINLESS FEMALE DIN X MALE
DIN REDUCER LIGHT DUTY



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

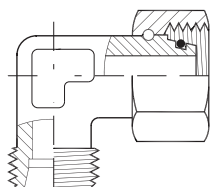
STAINLESS FEMALE DIN X MALE
DIN REDUCER HEAVY DUTY



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

SS5360L

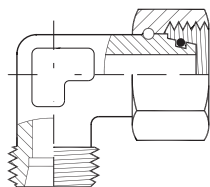
STAINLESS 90° DIN LIGHT
DUTY X FEMALE DIN SWIVEL



SS5360L-06	SS5360L-15	SS5360L-35
SS5360L-08	SS5360L-18	SS5360L-42
SS5360L-10	SS5360L-22	
SS5360L-12	SS5360L-28	

SS5360S

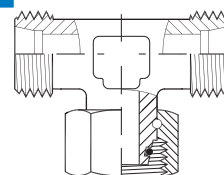
STAINLESS 90° DIN HEAVY
DUTY X FEMALE DIN SWIVEL



SS5360S-06	SS5360S-14	SS5360S-30
SS5360S-08	SS5360S-16	SS5360S-38
SS5360S-10	SS5360S-20	
SS5360S-12	SS5360S-25	

SS5387L

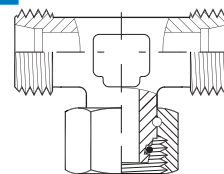
STAINLESS FEMALE
DIN LIGHT DUTY SWIVEL
BRANCH TEE



SS5387L-06	SS5387L-15	SS5387L-35
SS5387L-08	SS5387L-18	
SS5387L-10	SS5387L-22	
SS5387L-12	SS5387L-28	

SS5387S

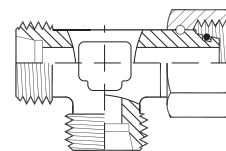
STAINLESS FEMALE
DIN HEAVY DUTY SWIVEL
BRANCH TEE



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

SS5390L

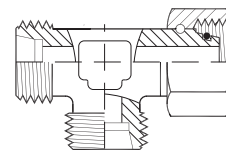
STAINLESS FEMALE DIN LIGHT
DUTY SWIVEL RUN TEE



SS5390L-06	SS5390L-15	SS5390L-35
SS5390L-08	SS5390L-18	
SS5390L-10	SS5390L-22	
SS5390L-12	SS5390L-28	

SS5390S

STAINLESS FEMALE DIN HEAVY
DUTY SWIVEL RUN TEE



SS5390S-06	SS5390S-14	SS5390S-30
SS5390S-08	SS5390S-16	
SS5390S-10	SS5390S-20	
SS5390S-12	SS5390S-25	

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

STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

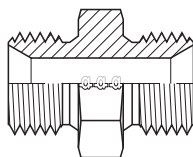
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

SS9000

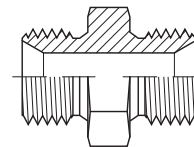
STAINLESS MALE BSPP NIPPLE



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

SS9004

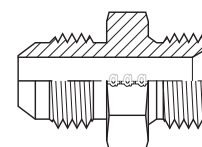
MALE BSPP X MALE METRIC



SS9004-04-12	SS9004-06-20	SS9004-12-22
SS9004-04-14	SS9004-08-16	SS9004-12-27
SS9004-04-16	SS9004-08-18	SS9004-12-36
SS9004-04-18	SS9004-08-20	SS9004-16-22
SS9004-06-16	SS9004-08-22	
SS9004-06-18	SS9004-12-20	

SS9005

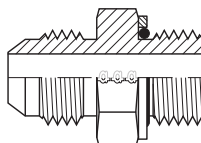
STAINLESS MALE JIC X MALE BSPP



SS9005-04-02	SS9005-08-08	SS9005-16-16
SS9005-04-04	SS9005-08-12	SS9005-16-20
SS9005-04-06	SS9005-10-10	SS9005-16-32
SS9005-04-08	SS9005-10-12	SS9005-20-20
SS9005-05-04	SS9005-12-06	SS9005-24-16
SS9005-05-06	SS9005-12-08	SS9005-24-24
SS9005-06-04	SS9005-12-12	SS9005-32-32
SS9005-06-06	SS9005-12-16	SS9005-32-40
SS9005-06-08	SS9005-12-20	
SS9005-08-06	SS9005-16-12	

SS9002

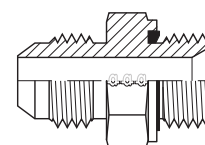
STAINLESS MALE JIC X MALE BSPP C/W OR & RR



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

SS9005ES

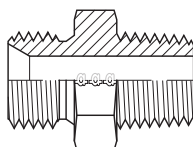
STAINLESS MALE JIC X MALE BSPP C/W ELASTOMERIC SEAL



SS9005ES-04-02	SS9005ES-06-06	SS9005ES-12-12
SS9005ES-04-04	SS9005ES-06-08	SS9005ES-16-16
SS9005ES-04-06	SS9005ES-08-06	SS9005ES-16-24
SS9005ES-06-04	SS9005ES-08-08	SS9005ES-32-32

SS9003

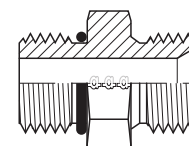
STAINLESS MALE BSPP X MALE BSPT



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

SS9006

STAINLESS MALE SAE ORB X MALE BSPP

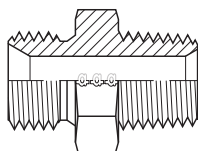


SS9006-04-04	SS9006-08-08	SS9006-16-12
SS9006-04-06	SS9006-08-12	SS9006-16-16
SS9006-06-04	SS9006-10-08	SS9006-20-20
SS9006-06-06	SS9006-12-08	SS9006-24-24
SS9006-06-08	SS9006-12-12	
SS9006-08-06	SS9006-12-16	

STAINLESS STEEL INTERNATIONAL ADAPTERS

SS9007

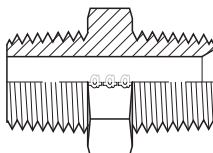
STAINLESS MALE BSPP X MALE NPT



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

SS9008

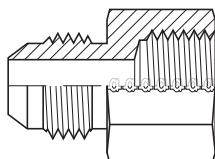
STAINLESS MALE BSPT X MALE NPT



SS9008-02-04	SS9008-12-12
SS9008-04-04	SS9008-16-16
SS9008-06-06	SS9008-20-20
SS9008-08-08	

SS9009

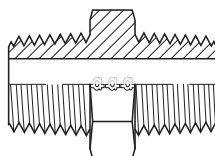
STAINLESS MALE JIC X FEMALE BSP



SS9009-04-04	SS9009-06-08	SS9009-12-12
SS9009-06-02	SS9009-08-06	SS9009-16-16
SS9009-06-04	SS9009-08-08	SS9009-20-20
SS9009-06-06	SS9009-10-10	SS9009-24-24

SS9010

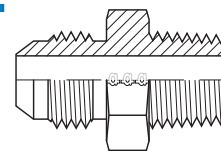
STAINLESS MALE BSPT NIPPLE



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

SS9011

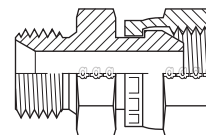
STAINLESS MALE JIC X MALE BSPT



SS9011-04-02	SS9011-08-08	SS9011-16-16
SS9011-04-04	SS9011-08-12	SS9011-16-20
SS9011-06-04	SS9011-10-08	SS9011-20-20
SS9011-06-06	SS9011-12-08	SS9011-24-24
SS9011-06-08	SS9011-12-12	SS9011-32-32
SS9011-08-06	SS9011-16-12	

SS9015

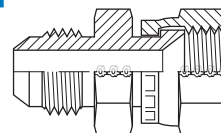
STAINLESS MALE BSPP X FEMALE BSPP SWIVEL



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

SS9020

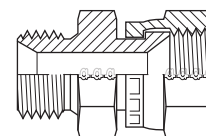
STAINLESS MALE JIC X FEMALE JIC SWIVEL



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

STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

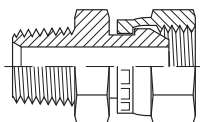
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

SS9023

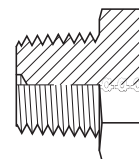
MALE NPT X FEMALE BSPP
SWIVEL



SS9023-02-02	SS9023-08-08	SS9023-24-24
SS9023-04-04	SS9023-12-12	
SS9023-06-04	SS9023-16-16	
SS9023-06-06	SS9023-20-20	

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	

SS9026

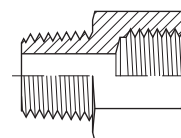
STAINLESS FEMALE JIC X
FEMALE JIC (SWIVEL)



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

SS9032

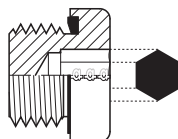
MALE BSPT X FEMALE BSP



SS9032-04-02	SS9032-12-04	SS9032-20-16
SS9032-04-04	SS9032-12-06	SS9032-24-08
SS9032-06-02	SS9032-12-08	SS9032-24-12
SS9032-06-04	SS9032-12-12	SS9032-24-16
SS9032-06-06	SS9032-16-06	SS9032-24-20
SS9032-08-04	SS9032-16-08	SS9032-32-16
SS9032-08-06	SS9032-16-12	SS9032-32-24
SS9032-08-08	SS9032-20-12	SS9032-48-48

SS9028

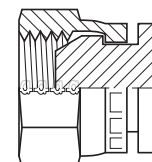
STAINLESS BSPP HOLLOW HEX
SEALED PLUG



SS9028-02	SS9028-12
SS9028-04	SS9028-16
SS9028-06	SS9028-20
SS9028-08	SS9028-24

SS9033

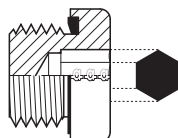
STAINLESS BSPP SWIVEL CAP



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

SS9029

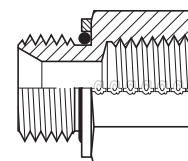
STAINLESS METRIC HOLLOW HEX
SEALED PLUG



SS9029-10X1.0	SS9029-18X1.5	SS9029-27X2.0
SS9029-12X1.5	SS9029-20X1.5	SS9029-33X2.0
SS9029-14X1.5	SS9029-22X1.5	SS9029-42X2.0
SS9029-16X1.5	SS9029-26X1.5	

SS9035S

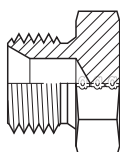
STAINLESS MALE BSPP X FEMALE
NPT C/W OR & RR



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

SS9030

STAINLESS MALE BSPP HEX
PLUG

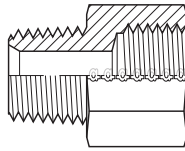


SS9030-02	SS9030-10	SS9030-24
SS9030-04	SS9030-12	SS9030-32
SS9030-06	SS9030-16	
SS9030-08	SS9030-20	

STAINLESS STEEL INTERNATIONAL ADAPTERS

SS9037

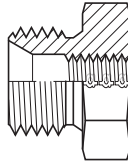
STAINLESS MALE NPT X FEMALE BSP



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

SS9038

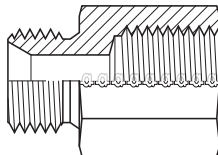
STAINLESS MALE BSPP X FEMALE BSP BUSHING



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

SS9039

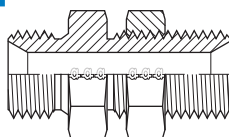
STAINLESS MALE BSPP X FEMALE BSP EXTENDED BUSHING



SS9039-02-02	SS9039-06-06	SS9039-16-12
SS9039-02-04	SS9039-06-08	SS9039-16-16
SS9039-02-06	SS9039-08-06	SS9039-16-20
SS9039-04-02	SS9039-08-08	SS9039-20-20
SS9039-04-04	SS9039-08-12	SS9039-24-24
SS9039-04-06	SS9039-12-08	SS9039-32-32
SS9039-04-08	SS9039-12-12	
SS9039-06-04	SS9039-12-16	

SS9040

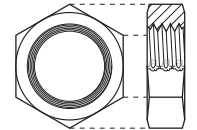
STAINLESS MALE BSPP X MALE BSPP BULKHEAD



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	

SS9041

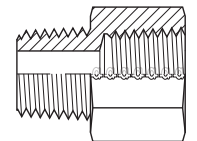
STAINLESS BSPP BULKHEAD LOCKNUT



SS9041-02	SS9041-12	SS9041-32
SS9041-04	SS9041-16	SS9041-40
SS9041-06	SS9041-20	
SS9041-08	SS9041-24	

SS9042

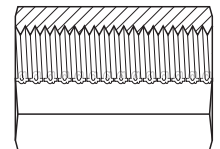
STAINLESS MALE BSPT X FEMALE NPT



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

SS9043

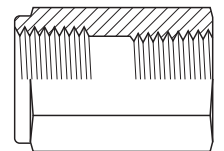
STAINLESS FEMALE BSP X FEMALE BSP (SOLID)



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	

SS9044

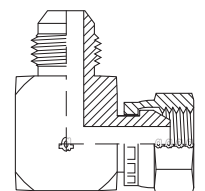
FEMALE BSP X FEMALE NPT (SOLID)



SS9044-04-04	SS9044-16-16	SS9044-32-32
SS9044-06-06	SS9044-20-20	
SS9044-08-08	SS9044-24-24	
SS9044-12-12	SS9044-24-32	

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	

STAINLESS STEEL INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

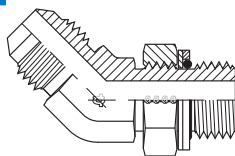
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

SS9058

STAINLESS 45° MALE JIC X
MALE BSPP ADJ. ELBOW



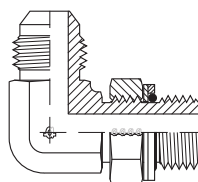
SS9058-04-04
SS9058-06-06

SS9058-08-08
SS9058-12-12

SS9058-16-16

SS9059

STAINLESS 90° MALE JIC X
MALE BSPP ADJ. ELBOW



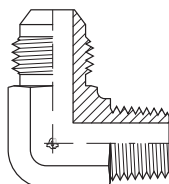
SS9059-04-02
SS9059-04-04
SS9059-06-04
SS9059-06-06

SS9059-06-08
SS9059-08-06
SS9059-08-08
SS9059-12-08

SS9059-12-12
SS9059-16-16
SS9059-20-20
SS9059-24-24

SS9063

STAINLESS 90° MALE JIC X
MALE BSPT ELBOW



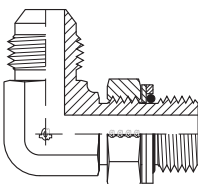
SS9063-04-02
SS9063-04-04
SS9063-06-04
SS9063-06-06

SS9063-08-06
SS9063-08-08
SS9063-10-08
SS9063-12-12

SS9063-16-16

SS9069

STAINLESS 90° MALE JIC X
MALE METRIC ADJ. ELBOW



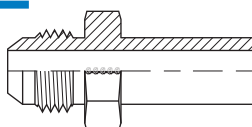
SS9069-04-10
SS9069-04-12

SS9069-06-14
SS9069-06-16

SS9069-08-18

SS9200

STAINLESS MALE JIC X
DIN STANDPIPE



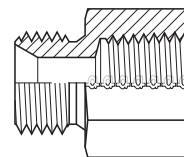
SS9200-04-06
SS9200-04-08
SS9200-04-10
SS9200-06-08
SS9200-06-10
SS9200-06-12

SS9200-08-12
SS9200-08-14
SS9200-08-15
SS9200-08-16
SS9200-12-18
SS9200-12-20

SS9200-12-22
SS9200-12-25
SS9200-16-28
SS9200-16-30

SS9235

STAINLESS MALE METRIC X
FEMALE NPT



SS9235-10-02

SS9235-10X1.5-02

SS9235-12X1.25-04

SS9235-12-04

SS9235-14-04

SS9235-16-06

SS9235-16-08

SS9235-18-06

SS9235-18-08

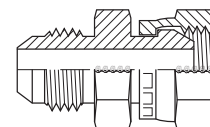
SS9235-20-08

SS9235-22-08

SS9235-24-12

SS9240

STAINLESS MALE JIC X FEMALE
BSPP (SWIVEL)



SS9240-04-04

SS9240-06-06

SS9240-08-06

SS9240-08-08

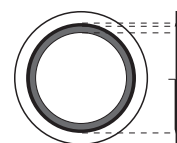
SS9240-08-12

SS9240-12-12

SS9240-16-16

SS9500

STAINLESS BONDED SEAL FOR
BSPP THREAD



SS9500-02

SS9500-04

SS9500-06

SS9500-08

SS9500-10

SS9500-12

SS9500-16

SS9500-20

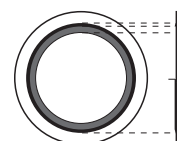
SS9500-24

SS9500-32

SS9500-40

SS9500-MM

STAINLESS BONDED SEAL FOR
METRIC THREAD



SS9500-06MM

SS9500-08MM

SS9500-10MM

SS9500-12MM

SS9500-14MM

SS9500-16MM

SS9500-18MM

SS9500-20MM

SS9500-22MM

SS9500-24MM

SS9500-26MM

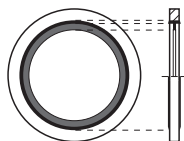
SS9500-30MM

SS9500-33MM

STAINLESS STEEL INTERNATIONAL ADAPTERS

SS9500-MMV

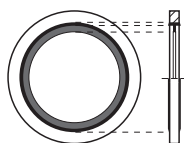
STAINLESS BONDED SEAL FOR
METRIC THREAD (VITON)



SS9500-08MMV	SS9500-16MMV
SS9500-10MMV	SS9500-20MMV
SS9500-12MMV	SS9500-24MMV
SS9500-14MMV	SS9500-26MMV

SS9500-V

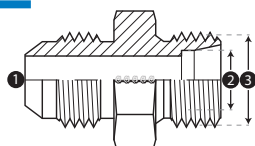
STAINLESS BONDED SEAL FOR
BSPP THREAD (VITON)



SS9500-02V	SS9500-10V	SS9500-24V
SS9500-04V	SS9500-12V	
SS9500-06V	SS9500-16V	
SS9500-08V	SS9500-20V	

SS9605

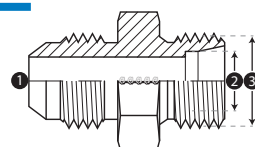
STAINLESS MALE JIC X MALE
METRIC DIN (LIGHT DUTY)



SS9605-04-L06-12	SS9605-08-L15-22
SS9605-04-L08-14	SS9605-10-L15-22
SS9605-06-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	

SS9606

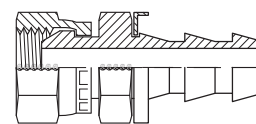
STAINLESS MALE JIC X MALE
METRIC DIN (HEAVY DUTY)



SS9606-04-S06-14	SS9606-12-S20-30
SS9606-04-S08-16	SS9606-12-S25-36
SS9606-06-S10-18	SS9606-16-S25-36
SS9606-06-S12-20	SS9606-16-S30-42
SS9606-08-S10-18	SS9606-20-S30-42
SS9606-08-S12-20	SS9606-24-S38-52
SS9606-08-S16-24	
SS9606-10-S16-24	

SS9900

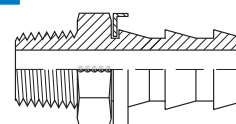
STAINLESS FEMALE BSPP
(SWIVEL) X HOSE BARB



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

SS9915

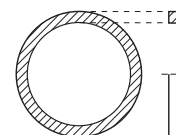
STAINLESS MALE BSPT X HOSE
BARB



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

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

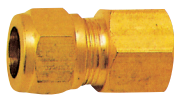
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

166

BRASS COMPRESSION X FEMALE BSP



166-04-02

166-06-04

166-04-04

166-06-06

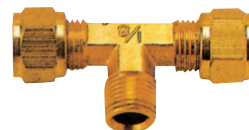
166-05-02

166-08-08

166-05-04

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

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

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

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

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

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

BRASS COMPRESSION, POLYTUBE & PUSH TO CONNECT

270

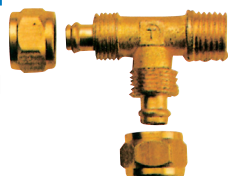
90° BRASS POLYTUBE
COMPRESSION X FEMALE BSP
ELBOW



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

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

MEALLEABLE IRON QUICK REFERENCE

ABOUT

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

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

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

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

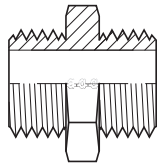
582-06-06

582-05-04

BRASS INTERNATIONAL ADAPTERS

8000

BRASS MALE BSPP NIPPLE

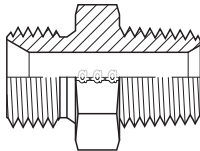


8000-02-02	8000-08-04
8000-04-02	8000-08-06
8000-04-04	8000-08-08
8000-06-02	8000-12-08
8000-06-04	8000-12-12
8000-06-06	8000-16-12

8000-16-16
8000-24-20

8007

BRASS MALE BSPP X MALE NPT

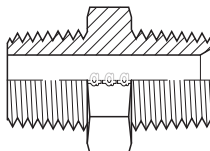


8007-04-04	8007-12-12
8007-06-04	8007-16-16
8007-06-06	8007-20-20
8007-08-08	8007-24-24

8007-32-32

8008

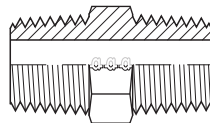
BRASS MALE BSPT X MALE NPT



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

8010

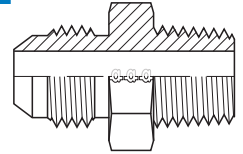
BRASS MALE BSPT NIPPLE



8010-02-02	8010-08-02	8010-12-12
8010-04-02	8010-08-04	8010-16-12
8010-04-04	8010-08-06	8010-16-16
8010-06-02	8010-08-08	8010-20-16
8010-06-04	8010-12-06	
8010-06-06	8010-12-08	

8011

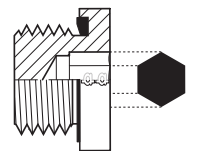
BRASS MALE JIC X MALE BSPT



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

8028

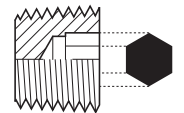
BRASS HOLLOW HEX BSPP SEALED PLUG



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

8030CSP

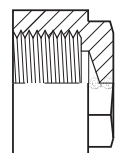
BRASS COUNTERSUNK BSPT PLUG



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

8033

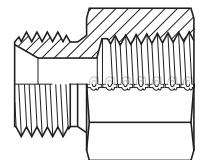
BRASS BSP SOLID CAP



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

8035

BRASS MALE BSPP X FEMALE NPT

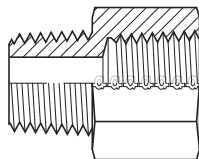


8035-02-02	8035-06-06	8035-20-20
8035-04-02	8035-08-08	
8035-04-04	8035-12-12	
8035-04-06	8035-16-16	

BRASS INTERNATIONAL ADAPTERS

8036

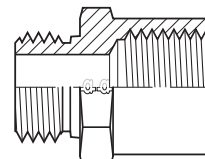
BRASS MALE BSPT X FEMALE NPT



8036-02-02	8036-12-12
8036-04-04	8036-16-08
8036-06-06	8036-16-16
8036-08-08	8036-20-20

8039

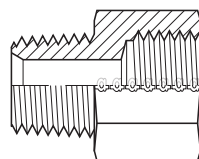
BRASS MALE BSPP X FEMALE BSP BUSHING



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	

8037

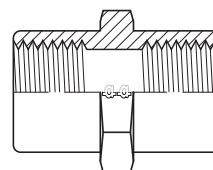
BRASS MALE NPT X FEMALE BSP



8037-02-02	8037-06-06	8037-12-12
8037-04-04	8037-08-08	8037-16-08

8043

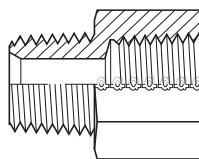
BRASS FEMALE BSP X FEMALE BSP



8043-02-02	8043-06-04	8043-08-08
8043-04-02	8043-06-06	8043-12-12
8043-04-04	8043-08-04	8043-32-32
8043-06-02	8043-08-06	

8037T

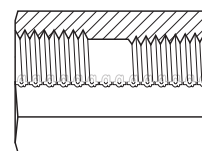
BRASS MALE NPT X FEMALE BSPT



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

8044

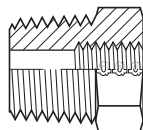
BRASS FEMALE BSP X FEMALE NPT



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	

8038

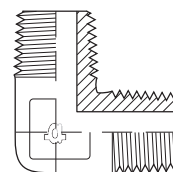
BRASS MALE BSPT X FEMALE BSP BUSHING



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	

8055

BRASS 90° MALE BSPT ELBOW

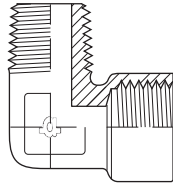


8055-02-02	8055-06-06	8055-12-12
8055-04-04	8055-08-08	

BRASS INTERNATIONAL ADAPTERS

8060

BRASS 90° MALE BSPT X FEMALE BSP ELBOW



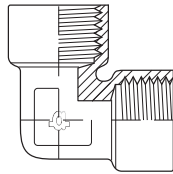
8060-02-02
8060-04-04

8060-06-06
8060-08-08

8060-12-12

8075

BRASS 90° FEMALE BSP ELBOW



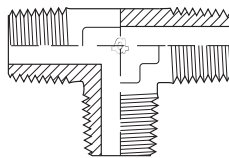
8075-02-02
8075-04-04

8075-06-06
8075-08-08

8075-12-12

8080

BRASS MALE BSPT TEE



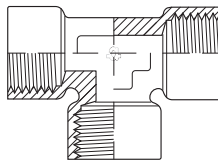
8080-02-02-02
8080-04-04-04

8080-06-06-06
8080-08-08-08

8080-12-12-12

8085

BRASS FEMALE BSP TEE



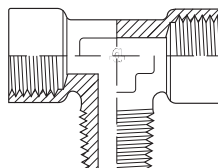
8085-02-02-02
8085-04-04-04

8085-06-06-06
8085-08-08-08

8085-12-12-12

8093

BRASS FEMALE BSP X MALE BSPT BRANCH TEE

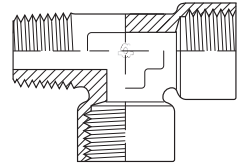


8093-02-02-02
8093-04-04-04

8093-06-06-06
8093-08-08-08

8095

BRASS FEMALE BSP X MALE BSPT RUN TEE

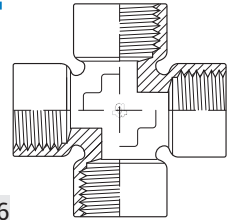


8095-02-02-02
8095-04-04-04

8095-06-06-06
8095-08-08-08

8097

BRASS FEMALE BSP CROSS

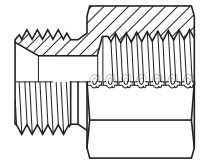


8097-02-02-02-02
8097-04-04-04-04

8097-06-06-06-06
8097-08-08-08-08

8235

BRASS MALE METRIC X FEMALE NPT



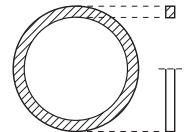
8235-14-02
8235-14-04

8235-16-06
8235-18-08

8235-22-06

8400

ALUMINUM WASHER BSPP THREAD

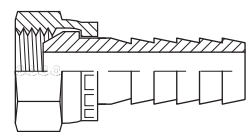


8400-04
8400-06

8400-08
8400-12

8900

BRASS FEMALE BSPP (SWIVEL) X HOSE BARB



8900-04-04
8900-06-06

8900-06-08
8900-08-08

8900-12-12

BRASS INTERNATIONAL ADAPTERS

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

BRASS

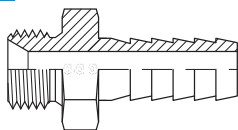
MEALLEABLE IRON

QUICK REFERENCE

ABOUT

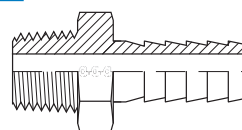
8920

BRASS MALE BSPP X
HOSE BARB



8920T

MALE BSPT X HOSE BARB



8920-04-02

8920-08-08

8920-04-04

8920-12-12

8920-04-06

8920-16-16

8920-04-08

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

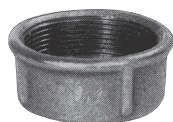
8920T-04-06

8920T-12-08

BSP BLACK PIPE/MALLEABLE IRON

B14C

BLACK BSP CAP



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

B1404

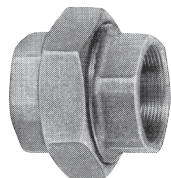
BLACK BSP COUPLING



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	

B1404U

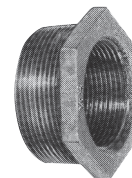
BLACK BSP UNION



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

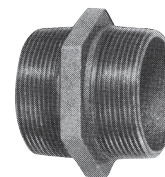
BLACK BSPT BUSHING



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

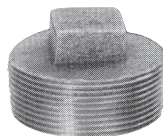


B1808L-04-40MM	B1808L-08-150MM
B1808L-04-60MM	B1808L-12-40MM
B1808L-04-80MM	B1808L-12-60MM
B1808L-04-100MM	B1808L-12-80MM
B1808L-04-120MM	B1808L-16-40MM
B1808L-06-40MM	B1808L-16-60MM
B1808L-06-60MM	B1808L-16-80MM
B1808L-06-80MM	B1808L-20-150MM
B1808L-06-150MM	B1808L-20-400MM
B1808L-08-40MM	B1808L-20-4"
B1808L-08-60MM	B1808L-20-10"
B1808L-08-80MM	B1808L-40-8"

BSP BLACK PIPE/MALLEABLE IRON

B18SQP

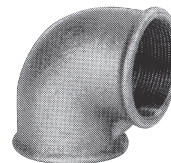
BLACK BSPT SQUARE HEAD PLUG



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

B3404

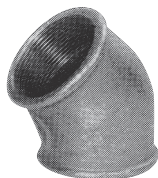
BLACK BSP 90° FEMALE ELBOW



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	

B2404

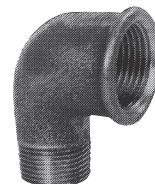
BLACK BSP 45° FEMALE ELBOW



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

B3804

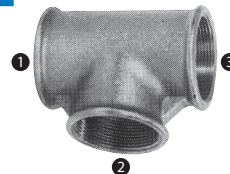
BLACK 90° BSPT STREET ELBOW



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	

B2804

BLACK 45° BSPT STREET ELBOW



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

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	50	SS9000	84	8000	93		
BSPP MALE X BSPP MALE ADJ. OR+RR	9474	72						
BSPP MALE X BSPP MALE BULKHEAD	9040	59	SS9040	87				
BSPP MALE X BSPP MALE BULKHEAD LONG	9040L	60						
BSPP MALE X BSPT MALE	9003	51	SS9003	84				
BSPP MALE X METRIC MALE	9004	51	SS9004	84				
BSPP MALE X METRIC MALE BULKHEAD	9040M	60						
BSPP MALE X NPT MALE	9007	53	SS9007	85	8007	93		
BSPP MALE X ORB MALE	9006	52	SS9006	84				
BSPT MALE X BSPT MALE	9010	53	SS9010	85	8010	93	B1808H	97
BSPT MALE X BSPT MALE LONG							B1808L	97
BSPT MALE X NPT MALE	9008	53	SS9008	85	8008	93		

QUICK REFERENCE

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	34	SS5002	79				
DIN MALE X BSPP MALE BULKHEAD ES SEAL	5040ES	36						
DIN MALE X BSPP MALE SHOULDER SEAL			SS5001	79				
DIN MALE X BSPT MALE	5011	36						
DIN MALE X DIN MALE	5000	34	SS5000	79				
DIN MALE X DIN MALE BULKHEAD	5040	36	SS5040	80				
DIN MALE (PORT & TUBE) X JIC MALE (LIGHT)	9605	74	SS9605	89				
DIN MALE X JIC MALE OR+RR (LIGHT)	9605S	74						
DIN MALE X JIC MALE (HEAVY)	9606	74	SS9606	89				
DIN MALE X JIC MALE OR+RR (HEAVY)	9606S	74						
DIN MALE (JSW) X JIC MALE	9245	70						
DIN MALE X METRIC MALE ES SEAL	5068	39	SS5068	81				
DIN MALE X METRIC TAPER MALE	5068LLT	39						
DIN MALE X NPT MALE	5007	35	SS5007	80				
DIN MALE (PORT & TUBE) X NPT MALE	9607	75						
DIN MALE X ORB MALE	5006	34-35	SS5006	79				
DIN MALE X ORFS MALE (LIGHT)	6605	49						
DIN MALE X ORFS MALE (HEAVY)	6606	49						
JIC MALE X BSPP MALE	9005	52	SS9005	84				
JIC MALE X BSPP MALE ES SEAL	9005ES	52	SS9005ES	84				
JIC MALE X BSPP MALE OR+RR	9002	50	SS9002	84				
JIC MALE X BSPP MALE LONG	9005L	52						
JIC MALE X BSPP MALE LONG OR+RR	9002L	51						
JIC MALE X BSPP MALE EXTRA LONG	9005EL	52						
JIC MALE X BSPT MALE	9011	53	SS9011	85	8011	93		
JIC MALE X JIS MALE	9337	72						
JIC MALE X KOBELCO MALE	9247	70						
JIC MALE X KOMATSU MALE	9237	70						
JIC MALE X METRIC MALE	9067	63						
JIC MALE X METRIC MALE ES SEAL	9067ES	63						
JIC MALE X METRIC MALE OR+RR	9068	64						
JIC MALE X NISSAN MALE	9228	68						
JIC MALE X ORFS MALE	6622	50						

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	68						
JIS MALE X JIS MALE	9336	72						
JIS MALE X ORB MALE	9277	71						
JIS MALE X ORFS MALE	6337	49						
KOBELCO MALE X ORFS MALE	6247	49						
KOMATSU MALE X BSPT MALE	9233	69						
KOMATSU MALE X KOMATSU MALE	9236	69						
KOMATSU MALE X ORFS MALE	6237	49						
METRIC MALE X METRIC MALE	9001	50						
ORFS MALE X BSPP MALE	6005	47						
ORFS MALE X BSPP MALE ES SEAL	6005ES	47						
ORFS MALE X BSPP MALE OR+RR	6002	47						
ORFS MALE X BSPP MALE OR+RR LONG	6002L	47						
ORFS MALE X BSPT MALE SHORT	6011	47						
ORFS MALE X MALE METRIC ES SEAL	6068ES	48						
ORFS MALE X METRIC MALE OR+RR	6068	48						
TEST POINT MALE X BSPP MALE ES SEAL	4005ES	32						
TEST POINT MALE X BSPT MALE	4011	32						
TEST POINT MALE X METRIC MALE ES SEAL	4068ES	32						
TEST POINT MALE X METRIC MALE HYDROTECHNIK STD	4068H	33						
TEST POINT MALE X NPT MALE	4007	32						
TEST POINT MALE X ORB MALE	4006	32						

QUICK REFERENCE

STRAIGHT FITTINGS - MALE X FEMALE

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BSPP MALE X BSP FEMALE BUSHING	9038	59	SS9038	87				
BSPP MALE X BSP FEMALE BUSHING ES SEAL	9038ES	59						
BSPP MALE X BSP FEMALE LONG BUSHING	9039	59	SS9039	87	8039	94		
BSPP MALE X BSPP FEMALE SWIVEL	9015	54	SS9015	85				
BSPP MALE X BSPT FEMALE	9034	58						
BSPP MALE X DIN FEMALE ES SEAL	5302	44						
BSPP MALE X JIC FEMALE SWIVEL	9021	55	SS9021	85				
BSPP MALE X METRIC FEMALE SWIVEL	9019	54						
BSPP MALE X NPT FEMALE	9035	58			8035	93		
BSPP MALE X NPT FEMALE OR+RR	9035S	58	SS9035S	86				
BSPP MALE X ORB FEMALE	9036	59						
BSPT MALE X BSP FEMALE SOLID	9032	58	SS9032	86	8038	94		
BSPT MALE X BSPT FEMALE BUSHING	9031	57					B1804	97
BSPT MALE X BSPP FEMALE SWIVEL	9032S	58						
BSPT MALE X NPT FEMALE	9042	60	SS9042	87	8036	94		
BSPT MALE X ORB FEMALE	9536	73						
DIN MALE X BSP FEMALE SOLID	5009	35						
DIN MALE X BSP FEMALE GAUGE COUPLING	5009GC	35						
DIN MALE X DIN FEMALE REDUCER	5315	45	SS5315	83				
DIN MALE X DIN FEMALE W/ NPT TEST PORT	5015TP	36						
DIN MALE X JIC FEMALE SOLID	9624	75						
DIN MALE X NPT FEMALE OR+RR (LIGHT)	9635S	75						
DIN MALE X NPT FEMALE OR+RR (HEAVY)	9636S	75						
JIC MALE X BSP FEMALE SOLID	9009	53	SS9009	85				
JIC MALE X BSPP FEMALE SWIVEL	9240	70	SS9240	88				
JIC MALE X DIN FEMALE SWIVEL	9197	67						
JIC MALE X HIAB FEMALE SWIVEL	9210	68						
JIC MALE X JIC FEMALE SOLID	9020C	55						
JIC MALE X JIC FEMALE SWIVEL	9020	55	SS9020	85				
JIC MALE X JIS FEMALE SOLID	9220	68						

STRAIGHT FITTINGS - MALE X FEMALE

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
JIC MALE X KOMATSU FEMALE SOLID	9230	69						
JIC MALE X METRIC FEMALE SWIVEL	9022	55						
JIC MALE X METRIC FEMALE FLAT FACE	9022F	55						
JIC MALE X METRIC FEMALE FLAT FACE SHORT	9022FC	56						
JIC MALE X METRIC FEMALE GB 37°/74°	9241	70						
JIC MALE X METRIC FEMALE SOLID	9622	75						
JIC MALE X NISSAN FEMALE SOLID	9229	69						
JIC MALE X ORFS FEMALE	6620	49						
JIC MALE X ORFS FEMALE SWIVEL	6620S	49						
METRIC MALE X BSPP FEMALE SWIVEL	9018	54						
METRIC MALE X BSPT FEMALE	9234	69						
METRIC MALE X DIN FEMALE ES SEAL	5368	46						
METRIC MALE X JIC FEMALE SWIVEL	9024	56						
METRIC MALE X JIC FEMALE SWIVEL OR+RR	9024S	56						
METRIC MALE X METRIC FEMALE BUSHING	9638	76						
METRIC MALE X NPT FEMALE	9235	69	SS9235	88	8235	95		
METRIC MALE X ORB FEMALE	9335	72						
NPT MALE X BSP FEMALE SOLID	9037	59	SS9037	87	8037	94		
NPT MALE X BSPP FEMALE SWIVEL	9023	56	SS9023	86				
NPT MALE X BSPT FEMALE					8037T	94		
NPT MALE X DIN FEMALE	5307	44						
NPT MALE X JIC FEMALE SWIVEL	9017	54						
NPT MALE X METRIC FEMALE SOLID	9325	71						
ORB MALE X BSP FEMALE SOLID	9120	66						
ORFS MALE X JIC FEMALE SWIVEL	6621	50						
ORFS MALE X JIS FEMALE SOLID	6220	49						
ORFS MALE X KOMATSU FEMALE SOLID	6230	49						
TEST POINT MALE X BSP BULKHEAD FEMALE	4040BSP	32						
TEST POINT MALE X JIC FEMALE	4020	32						
TEST POINT MALE X NPT BULKHEAD FEMALE	4040NPT	32						

QUICK REFERENCE

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	60	SS9043	87	8043	94	B1404	97
BSPP FEMALE X BSPP FEMALE SWIVEL	9025	56					B1404U	97
BSP FEMALE X NPT FEMALE SOLID	9044	60	SS9044	87	8044	94		
DIN FEMALE X BSP FEMALE GAUGE COUPLING	5309GC	44						
DIN FEMALE X DIN FEMALE	5300	44	SS5300	82				
JIC FEMALE X BSPP FEMALE SWIVEL	9027	56						
JIC FEMALE X JIC FEMALE SWIVEL	9026	56	SS9026	86				
JIC FEMALE X JIS FEMALE SWIVEL	9226	68						
KOMATSU FEMALE X KOMATSU FEMALE SWIVEL	9327	72						
METRIC FEMALE X METRIC FEMALE SOLID	9043M	60						
METRIC FEMALE X NPT FEMALE SOLID	9643	76						
TEST POINT FEMALE X BSP FEMALE	4025	32						
TEST POINT FEMALE X NPT FEMALE	4643	33						

STRAIGHT FITTINGS - OTHER/MISC

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BRASS COMPRESSION X BSP FEMALE					166	90		
BRASS COMPRESSION X BSPT MALE					168	90		
BRASS POLYTUBE COMPR. X BSP FEMALE					266	90		
BRASS POLYTUBE COMPR. X BSPT MALE					268	90		
BRASS PUSH TO CON. X BSPT MALE					568	91		
BRASS PUSH TO CON. X BSPT FEMALE					566	91		
BRASS PUSH TO CON. FLOW VALVE X BSPT MALE					582	92		
BSPP MALE X HOSE BARB	9920	76			8920	96		
BSPP MALE X HOSE BARB (NEEDS CLAMP)	9921	77						
BSPP FEMALE SWIVEL X HOSE BARB	9900	76	SS9900	89	8900	95		
BSPT MALE X HOSE BARB	9915	76	SS9915	89	8920T	96		
JIC MALE X DIN STANDPIPE	9200	67	SS9200	88				

QUICK REFERENCE

45° ELBOWS

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BSPP MALE X BSPP MALE ADJ.	9051	61						
BSPP MALE X BSPP FEMALE SWIVEL	9048	61						
BSPP MALE X BSPP FEMALE SWIVEL (TUBE)	9047	61						
BSPP MALE X BSPT MALE	9054	62						
BSP FEMALE X BSP FEMALE SOLID							B2404	98
BSPP FEMALE X BSPP FEMALE SWIVEL	9053	61						
BSPP FEMALE X HOSE BARB SWIVEL	9905	76						
BSPT MALE X BSPT FEMALE							B2804	98
DIN MALE X BSPP MALE ADJ.	5058	37						
DIN MALE X DIN FEMALE	5362	46						
DIN MALE X METRIC MALE ADJ.	5066	38						
JIC MALE X BSPP MALE ADJ.	9058	62	SS9058	88				
JIC MALE X BSPP FEMALE SWIVEL	9260	71						
JIC MALE X BSPT MALE	9064	63						
JIC MALE X METRIC MALE ADJ.	9066	63						
JIS MALE X BSPT MALE	9225	68						
JIS MALE X JIS FEMALE SWIVEL	9294	71						
ORFS MALE X BSPP MALE ADJ.	6058	48						

90° ELBOWS

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BRASS COMPRESSION X BSPT MALE					169	90		
BRASS POLYTUBE COMPR. X BSP FEMALE					270	91		
BRASS POLYTUBE COMPR. X BSPT MALE					269	90		
BRASS PUSH TO CON. X BSPT MALE					569	91		
BRASS PUSH TO CON. X BSPT MALE BANJO (BODY)					569BJ	91		
BRASS PUSH TO CON. X BSPT MALE LONG					569L	91		
BRASS PUSH TO CON. X BSPT MALE METERING VALVE					581	92		
BSPP MALE X BSPP MALE	9055	62						
BSPP MALE X BSPP MALE ADJ.	9052	61						
BSPP MALE X BSPP FEMALE SWIVEL	9060	62						
BSPP MALE X BSPP FEMALE SWIVEL (TUBE)	9045	61						
BSPP MALE ADJ. X BSPP FEMALE SWIVEL	9046	61						
BSPP MALE X BSPT MALE	9057	62						
BSPP MALE X HOSE BARB BANJO (BODY)	3059HB	30						
BSPP MALE X JIC FEMALE SWIVEL	9061	63						
BSPP MALE X NPT MALE	9070	64						
BSPP MALE ADJ. X NPT FEMALE	9135	66						
BSPP MALE X ORB MALE ADJ.	9077	65						
BSP FEMALE X BSP FEMALE SOLID	9076	64			8075	95	B3404	98
BSPP FEMALE X BSPP FEMALE SWIVEL	9075	64						
BSPP FEMALE X BSPP FEMALE SWIVEL (TUBE)	9050	61						
BSPP FEMALE X HOSE BARB SWIVEL	9910	76						
BSPT MALE X BSP FEMALE SOLID					8060	95		
BSPT MALE X BSPP FEMALE SWIVEL	9062	63						
BSPT MALE X BSPT MALE					8055	94		
BSPT MALE X BSPT FEMALE							B3804	98

QUICK REFERENCE

90° ELBOWS

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
DIN MALE X BSPP MALE ADJ.	5059	38	SS5059	80				
DIN MALE X BSPP MALE BANJO (BODY)	3059	30						
DIN MALE X BSPP MALE ES SEAL BANJO (SWIVEL)	5059BJ	37-38						
DIN MALE X BSPT MALE	5063	38						
DIN MALE X DIN MALE	5055	37	SS5055	80				
DIN MALE X DIN MALE BULKHEAD	5042	37	SS5042	80				
DIN MALE X DIN FEMALE	5360	45	SS5360	83				
DIN MALE X METRIC MALE ADJ.	5069	39						
DIN MALE X METRIC MALE BANJO (BODY)	3069LL/L/S	31						
DIN MALE X METRIC MALE ES SEAL BANJO (SWIVEL)	5069BJ	39						
DIN MALE X METRIC TAPER MALE	5069LLT	39-40						
DIN MALE X NPT MALE	5070	40	SS5070	81				
DIN MALE X ORB MALE ADJ.	5077	40						
HOSE BARB X BSP BANJO (BODY)	3059HB	30						
HOSE BARB X METRIC BANJO (BODY)	3069HB	31						
JIC MALE X BSPP MALE	9065	63						
JIC MALE X BSPP MALE ADJ.	9059	62	SS9059	88				
JIC MALE X BSPP MALE ADJ. LONG	9059L	62						
JIC MALE X BSPP MALE BANJO (BODY)	3059	30						
JIC MALE X BSPP FEMALE SWIVEL	9056	62	SS9056	87				
JIC MALE X BSPP FEMALE SWIVEL (TUBE)	9250	70						
JIC MALE X BSPT MALE	9063	63	SS9063	88				
JIC MALE X DIN FEMALE SWIVEL	9199	67						
JIC MALE X JIC FEMALE SWIVEL	3705	47						
JIC MALE X METRIC MALE ADJ.	9069	64	SS9069	88				
JIC MALE X METRIC MALE ADJ. LONG	9069L	64						
JIC MALE X METRIC MALE BANJO (BODY)	3069	30						
JIC FEMALE X JIC FEMALE SWIVEL	9355	72						

90° ELBOWS

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
JIS MALE X BSPP MALE ADJ.	9259	71						
JIS MALE X BSPT MALE	9224	68						
JIS MALE X JIS FEMALE SWIVEL	9292	71						
JIS MALE X ORB MALE ADJ.	9278	71						
KOMATSU MALE X KOMATSU FEMALE SWIVEL	9392	72						
METRIC MALE X HOSE BARB BANJO (BODY)	3069HB	31						
NPT MALE X BSPP FEMALE SWIVEL	9072	64						
ORFS MALE X BSPP MALE ADJ.	6059	48						
ORFS MALE X METRIC MALE ADJ.	6069	48						
WELD (METRIC) X METRIC BANJO (BODY)	3069W	31						

QUICK REFERENCE

PLUGS & CAPS

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BSPP SOLID CAP	9033F	58			8033	93	B14C	97
BSPP SWIVEL CAP	9033	58	SS9033	86				
DIN TUBE CAP	5204	43	SS5204	82				
JIS SWIVEL CAP	9222	68						
KOBELCO SWIVEL CAP	9249	70						
KOMATSU SWIVEL CAP	9232	69						
METRIC GB 37°/74° CAP	9332	72						
BSPP HEX PLUG	9030	57	SS9030	86				
BSPP HOLLOW HEX SEALED PLUG	9028	56	SS9028	86	8028	93		
BSPT COUNTERSUNK PLUG	9030TCSP	57			8030CSP	93		
BSPT HEX PLUG	9030T	57	SS9030T	86			B18SQP	98
DIN TUBE PLUG	5203	43	SS5203	82				
DIN TUBE BLANKING PLUG FOR NUT	5204P	43	SS5204P	82				
DIN TUBE (JSW) PLUG	9246	70						
JIS PLUG	9221	68						
KOBELCO TUBE PLUG	9248	70						
KOMATSU PLUG	9231	69						
METRIC HEX PLUG	9030M	57						
METRIC HOLLOW HEX SEALED PLUG	9029	57	SS9029	86				
METRIC HOLLOW HEX PLUG (NO SEAL)	9029A	57						
METRIC ISO 6149 HEX PLUG	9030M-ISO	57						

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 BRANCH TEE					172	90		
BRASS COMPRESSION X BSPT MALE RUN TEE					171	90		
BRASS POLYTUBE COMPRESSION X BSPT MALE BRANCH TEE					272	91		
BRASS POLYTUBE COMPRESSION X BSPT MALE RUN TEE					271	91		
BRASS PUSH TO CONNECT X BSPT MALE BRANCH TEE					572	92		
BRASS PUSH TO CONNECT X BSPT MALE BRANCH "Y"					575	92		
BRASS PUSH TO CONNECT X BSPT MALE RUN TEE					571	92		

QUICK REFERENCE

TEES, CROSSES, TEST PORT TEES

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
BSPP MALE CROSS	9096	66						
BSPP MALE TEE	9080	65						
BSPP MALE ADJ. BRANCH TEE	9152	66						
BSPP MALE RUN TEE	9095	66						
BSPP MALE ADJ. RUN TEE	9151	66						
BSPP MALE X BSPP MALE TEST PORT TEE	9000TP	50						
BSPP MALE X BSPP FEMALE TEST PORT TEE	9015TP	54						
BSPP MALE X BSPT MALE BRANCH TEE	9080T	65						
BSPP MALE X ORB MALE ADJ. BRANCH TEE	9079	65						
BSPP MALE X ORB MALE ADJ. RUN TEE	9078	65						
BSPP FEMALE SOLID CROSS	9097	66			8097	95		
BSPP FEMALE SWIVEL TEE	9085	65						
BSPP FEMALE SWIVEL BRANCH TEE	9087	65						
BSPP FEMALE SWIVEL RUN TEE	9090	66						
BSP FEMALE SOLID TEE	9086	65			8085	95	B4444	98
BSP FEMALE SOLID X BSPT MALE BRANCH TEE					8093	95		
BSP FEMALE SOLID X BSPT MALE RUN TEE					8095	95		
BSPT MALE TEE					8080	95		
DIN MALE CROSS	5096	41						
DIN MALE TEE	5080	40	SS5080	81				
DIN MALE X BSPP MALE ADJ. BRANCH TEE	5159	41						
DIN MALE X BSPP MALE ADJ. RUN TEE	5158	41						
DIN MALE X DIN FEMALE WITH NPT TEST PORT	5015TP	36						
DIN MALE X METRIC MALE ADJ. BRANCH TEE	5169	42						
DIN MALE X METRIC MALE ADJ. RUN TEE	5168	41						
DIN MALE X ORB MALE ADJ. BRANCH TEE	5179	42						
DIN MALE X ORB MALE ADJ. RUN TEE	5178	42						
DIN FEMALE SWIVEL BRANCH TEE	5387	46	SS5387	83				
DIN FEMALE SWIVEL RUN TEE	5390	46	SS5390	83				

TEES, CROSSES, TEST PORT TEES

DESCRIPTIONS	STEEL		STAINLESS		BRASS		BLACK PIPE	
	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE	SERIES	PAGE
JIC FEMALE SWIVEL TEE	9555	73						
JIC FEMALE BRANCH TEE	4775	47						
JIC FEMALE RUN TEE	4757	47						
JIC MALE X BSPP MALE ADJ. BRANCH TEE	9159	67						
JIC MALE X BSPP MALE ADJ. RUN TEE	9158	66						
JIC MALE X BSPT MALE BRANCH TEE	9164	67						
JIC MALE X BSPT MALE RUN TEE	9163	67						
JIC MALE X METRIC MALE ADJ. BRANCH TEE	9169	67						
JIC MALE X METRIC MALE ADJ. RUN TEE	9168	67						
JIC MALE X JIC FEMALE TEST PORT TEE	9020TP	55						
JIS FEMALE RUN TEE	9291	71						
JIS TEST PORT TEE	9293TP	71						
KOMATSU FEMALE RUN TEE	9391	72						
KOMATSU TEST PORT TEE	9634TP	75						
ORFS MALE X BSPP MALE ADJ. BRANCH TEE	6159	48						
ORFS MALE X BSPP MALE ADJ. RUN TEE	6158	48						
ORFS MALE X METRIC MALE ADJ. BRANCH TEE	6169	49						
ORFS MALE X METRIC MALE ADJ. RUN TEE	6168	48						

QUICK REFERENCE

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	30						
BSPP DOUBLE BANJO BOLT	3002DB	30						
METRIC BANJO BOLT	3068	30						
METRIC DOUBLE BANJO BOLT	3068DB	30						
BSPP BONDED WASHER	9500	73	SS9500	88				
BSPP BONDED WASHER (NON SELF CENTERING)	9500NSC	73						
BSPP BONDED WASHER (VITON)	9500-V	73	SS9500-V	89				
METRIC BONDED WASHER	9500MM	73	SS9500MM	88				
METRIC BONDED WASHER (NON SELF CENTERING)	9500MM-NSC	73						
METRIC BONDED WASHER (VITON)	9500MM-V	73	SS9500MM-V	89				
GB 37°/74° TO DIN CONVERSION SEAT	5333	45						
HIAB CONVERSION SEAT	9777	76						
JIS CONVERSION SEAT	9999	77						
DIN TUBE CUTTING RING	5202	43	SS5202	82				
DIN SOFT SEALING CUTTING RING	5202OR	43	SS5202OR	82				
BSPP ES SEAL	ESB	77	ESB	77				
BSPP ES SEAL (VITON)	ESB(V)	77	ESB(V)	77				
METRIC ES SEAL	ESM	77	ESM	77				
METRIC ES SEAL (VITON)	ESM(V)	77	ESM(V)	77				
NPT MALE BOTTOM MOUNT PRESSURE GAUGE	GAUGE	33						
BSPP BULKHEAD NUT	9041	60	SS9041	87				
DIN TUBE NUT	5201	42-43	SS5201	81				
METRIC BULKHEAD NUT	5041	36						
BSPP O-RING	OR	78	OR	78				
BSPP VITON O-RING	OR(V)	78	OR(V)	78				
JIS O-RING	OR-JIS	78	OR-JIS	78				
METRIC O-RING	OR-MM	78	OR-MM	78				
METRIC VITON O-RING	OR-MM(V)	78	OR-MM(V)	78				
ORB O-RING	SAE ORB	78	SAE ORB	78				
ORFS O-RING	ORFS	78	ORFS	78				
BSPP RETAINING RING	RR	78	SSRR	89				
METRIC RETAINING RING	RR-MM	78						
TEST POINT HOSE	S110	33						



NOTES

- TUTORIALS
- FEATURED
- STEEL
- STAINLESS STEEL
- BRASS
- MEALLEABLE IRON
- QUICK REFERENCE
- ABOUT



NOTES

TUTORIALS

FEATURED

STEEL

STAINLESS STEEL

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ABOUT

ABOUT

Adaptall was founded in 1985 with the goal of supplying 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 CAD 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

COMPLIANCES

- Buy America Act /American Reinvestment and Recovery Act of 2009 (ARRA)
- Dodd-Frank Act
- Proposition 65 (California)
- REACH
- RoHS 2, 3 & 4

FITTING STANDARDS

- BSPP (ISO: 1179-1, 1179-2, 1179-3, 1179-4, 8434-6)
- BSPT (ISO 7-1)
- DIN TUBE (DIN: 2353, 3861, ISO 8434-1)
- JIC (ISO 8434-2, SAE J514)
- JIS (JIS B 0202)
- METRIC (DIN 7647, GB/T 9065, 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
- Compliant: OSHA (USA), CCOHS (Canada) and RoHS (European Union)
- Coatings do 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

- SS316/316L

O-rings

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

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	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	

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
REGISTERED

 1-800-463-8134

 1-800-994-5699

 SALES@ADAPTALL.COM

 WWW.ADAPTALL.COM

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HOUSTON DC
5246 N SAM HOUSTON PKWY E
HOUSTON, TX
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USA HQ & DC
9047 DUTTON DR.
TWINSBURG, OH
44087

CANADA HQ & DC
939 KAMATO RD.
MISSISSAUGA, ON
L4W 2R5