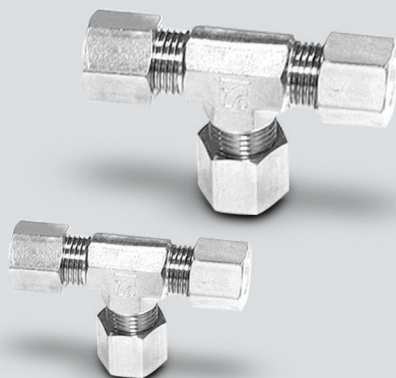
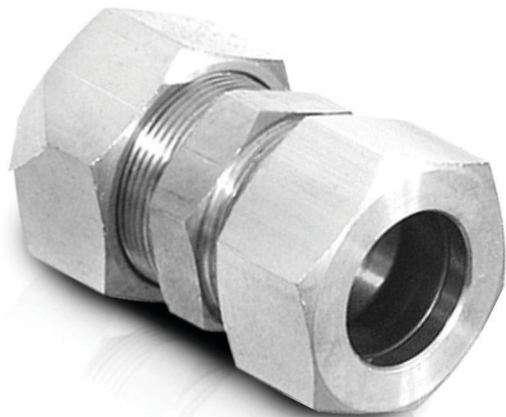























































# Bite Type Tube Fittings (DIN2353)



<b>Tube to Tube Part No.</b>		<b>Tube to Tube Port (Adjustable Fittings) Part No.</b>		<b>Weld Fittings Part No.</b>	
	<b>DUS</b> Union		<b>DAE</b> Adjustable Elbow		<b>DWC</b> Welding Connector
	<b>DUE</b> Union Elbow		<b>DABT</b> Adjustable Branch Tee		<b>DAWC</b> Welding Connector with DWN
	<b>DRU</b> Reducing Union		<b>DART</b> Adjustable Run Tee		<b>DWN</b> Welding Nipple
	<b>DUT</b> Union Tee		<b>DSE</b> Swivel Adjustable Elbow		<b>DRWN</b> Reducing Welding
	<b>DUC</b> Union Cross		<b>DSBT</b> Swivel Adjustable Branch Tee	<b>Male &amp; Female Adaptors Part No.</b>	
	<b>DRUT</b> Reducing Union Tee		<b>DSRT</b> Swivel Adjustable Run Tee		<b>DMFC</b> Male Female Connector
	<b>DBHU</b> Bulkhead Union		<b>DRD</b> Reducer		<b>DMFG</b> Male Female Gauge Connector
	<b>DBUW</b> Weld Bulkhead Union		<b>DSRAP</b> Swivel Reducing Adaptor		<b>DMFC-ED</b> Male Female Connector with ED-Ring
	<b>DBUE</b> Bulkhead Union Elbow	<b>Tube Port to Female Port Part No.</b>			<b>DMFG-ED</b> Male Female Gauge Connector with ED-Ring
<b>Tube to Female Port Part No.</b>			<b>DAP-GED/MED</b> Adaptor	<b>Plugs &amp; Caps Part No.</b>	
	<b>DCM-UO/MO</b> Male Connector with O-Ring		<b>DSAP-GED/MED</b> Swivel Adaptor		<b>DC</b> Tube Cap
	<b>DCM-GM</b> Male Connector	<b>Tube Port to Tube Port Part No.</b>			<b>DP</b> Pulg
	<b>DCM-R</b> Male Connector		<b>DSLX</b> Swivel Union		<b>DBP-GED/MED</b> Blanking Plugs for Port with ED-Ring
	<b>DCM-M</b> Male Connector	<b>Banjo Fittings Part No.</b>			<b>DBP-M</b> Blanking Plugs with O-Ring
	<b>DCM-MK</b> Male Connector		<b>DBE-G/M</b> Banjo Elbow	<b>Spare Part Part No.</b>	
	<b>DCM-GED</b> Male Connector with ED-Ring		<b>DHBE-G/M</b> High Pressure Banjo Elbow		<b>DNT</b> Nut
	<b>DCM-MED</b> Male Connector with ED-Ring		<b>DHBT-G/M</b> High Pressure Banjo Tee		<b>DCR</b> Cutting Ring
	<b>DCM-N</b> Male Connector	<b>Gauge Connector &amp; Test Couplings Part No.</b>			<b>DED</b> ED-Ring
	<b>DME-R/MK</b> Male Elbow		<b>DFGC-G</b> Pressure Gauge Connector		<b>DOR</b> O-Ring
<b>Tube to Male Thread Part No.</b>			<b>DSGC-G</b> Pressure Gauge Swivel Connector		
	<b>DCF-G/M</b> Female Connector		<b>DGAP-G</b> Gauge Adaptor		
			<b>DTPC</b> Tee Test Point Connector		
			<b>DTC</b> Test Coupling		

## Introduction

### SUPERLOK DIN Type Tube Fitting:

The SUPERLOK DIN Type Tube Fitting is a flareless metric fitting that consists of a body, a compression ring (ferrule) and a nut. On assembly, two cutting edges of the compression ring 'bite' into the outer surface of the tube ensuring the necessary grip for high pressure. Available in three series, the Superlok DIN Type fittings and accessories are manufactured in accordance with DIN2353.

The fittings and components listed in this catalog are intended solely for the assembly of connections for fluid applications.

## Design and Construction

The three components of SUPERLOK DIN type fittings are designed and manufactured to produce a strong, reliable, leak-free joint upon proper assembly.

### The SUPERLOK DIN Type Body:

SUPERLOK DIN Type fitting bodies are available in over thirty configurations. The shaped products (i.e., elbows, tees, crosses) are forged, then machined to the stringent SUPERLOK fitting specifications. The forging process further improves the strength and mechanical properties of the fitting material. Straight products are made from cold drawn bar stock. The cold drawing process ensures consistently tight dimensional tolerances, as well as significantly improved strength.

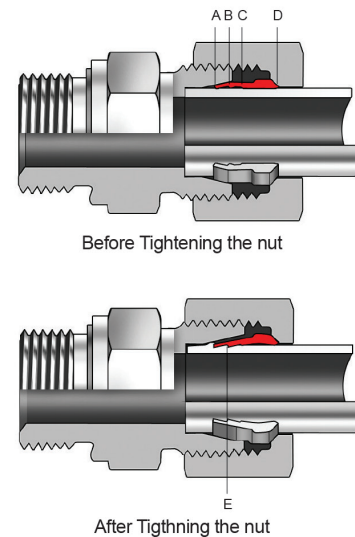
### The SUPERLOK DIN Type Compression Ring:

SUPERLOK compression rings are precision machined with all dimensions and surfaces, monitored on a continuous basis. The rings are then heat treated to maximize hardness, strength and toughness necessary to withstand the most demanding applications.

### The SUPERLOK DIN Type Nut:

SUPERLOK fitting nuts are either cold formed or machined from cold drawn material. The cold forming and cold drawing process provides a stronger mechanical structure thus improving the material's durability and fatigue resistance.

## Function of DIN Type Tube Fittings



The SUPERLOK DIN Type fitting produces a low to high pressure, leak-free connection of tubing and components in fluid systems. The unique geometry of the compression ring results in a controlled compression bite of the tube.

After the front edge (A) of the compression ring has cut the surface of the tube, the second edge (B) also begins to cut the tube surface. As soon as both cutting edges have cut the tube to the designed depth, further advance is limited by the stop edge (C).

The two cutting edges (A+B) and the stop edge (C) work together to attain a precise setting of the compression ring on the tube. The rear collar area (D) is specially designed to grip the tube and isolate the bite area (A+B) from the vibration and other stresses. Thus, a dependable, leak-tight fitting assembly is achieved.

The stop edge causes a sharp increase in tightening forces which is clearly felt. After assembly, a visible section of tube material (E) must completely fill the space in front of the first cutting edge.

During assembly, it is absolutely essential that the tube is held firmly against the stop in the inner cone of the fitting; if not, the cutting process will not take place satisfactorily. Reassembly can be performed an unlimited number of times.

## Standard Material Specifications

### Material Specifications

Fitting Materials	Carbon Steel	Materials according to DIN 3859
	Brass	Materials according to DIN 17660 / DIN 17672
	Stainless Steel	Materials according to DIN 17440 (Material No. : 1.4571 & 1.4401)

## Pressure and Temperature Load Capability

### Working Pressure

Series	Pressure Ratings			
	Steel (DIN3859)		SS316 (DIN 17440)	
	Size	Pressure (bar)	Size	Pressure (bar)
LL (Very light)	4 - 8	100	4 - 8	100
	6 - 18	315	6 - 15	250
L (Light)	-	-	18 - 22	160
	22 - 42	160	28 - 42	100
S (Heavy)	6 - 14	630	6 - 14	630
	16 - 30	400	16 - 25	400
	38	315	30 - 38	315

\* Working pressure - the nominal pressure (PN) as referred to in DIN 2401, part 1 draft.

### Operating Temperature Range

#### For Fitting Materials:

Fitting Material	Temperature Ratings
316 Stainless steel	- 60°C up to + 400°C (DIN17440)
Carbon Steel	- 40°C up to + 120°C (DIN 3859)
Brass	- 60°C up to + 175°C

\* The specifications in the Pressure Reductions table are applied here.

#### For Sealing Materials:

Seal Material	Temperature Ratings
NBR	- 35°C up to + 100°C
FPM	- 25°C up to + 200°C
PTFE	- 60°C up to + 240°C

\* ED-Ring and O-Ring of NBR Standard



### CAUTION

When combining different fitting and sealing materials, the lowest temperature limit in each case is applicable.

### Pressure Reductions

Recommended pressure reductions (determined by the fluid medium) for higher service temperature:

Material of Fittings	Temperature Rating	Reduction of Pressure
316 Stainless steel	- 60°C up to + 20°C	-
	+ 50°C	4%
	+ 100°C	11%
	+ 200°C	20%
	+ 300°C	29%
	+ 400°C	33%
Carbon steel	- 40°C up to + 120°C	-
Brass	- 60°C up to + 175°C	30%

\* In the case of different tube and fitting materials, the tubes must be tested separately for operating temperature range and pressure reductions.

### Gaskets

The gaskets used on valves and fittings are supplied standard in NBR material. The NBR has a working temperature of -35°C to +135°C with a hardness of 85 Durometer. For higher temperatures, Viton® seals are suggested with working temperatures between -25°C to +200°C and a hardness of 80 Durometer. All items that are assembled with gaskets or seals must be handled in accordance with DIN 7716 standard for stocking rubber products.

### Sealing Thread Ends

For maximum performance, match taper male thread with taper female thread, and cylindrical male thread with the cylindrical female thread. It is possible to match a taper male thread with a cylindrical female thread, but this combination is only used on low to medium pressure and is not suitable for high pressures. In case of matching a cylindrical thread with relatively soft material, it is advisable to use a gasket-type seal.

## Tubing Guide

### Allowed Carbon Steel Tubes on All Series

- For steel tubes in mild carbon steel we suggest the use of calibrated seamless cold drawn tubing as per DIN 1630.
- Maximum allowable hardness on the outside diameter of the tube is 75 HRB.
- The indicated pressures are to be considered constant pressure and with temperatures between -20° and +120°.

Tube O.D (mm)	Tolerance (mm)	Wall Thickness (mm)	Tube I.D (mm)	Design Pressure(bar)		Weight (kg/m)
				DIN2413 Static	DIN2413 III Dynamic	
4	0.1	0.5	0.5	313	274	0.047
		0.75	0.75	4.9	391	0.060
		1.0	1.0	522	502	0.074
5	0.1	1.0	3	432	416	0.099
6	0.1	* 0.75	4.5	333	289	0.103
		1.0	4	389	372	0.123
		1.5	3	549	526	0.166
		2.0	2	692	662	0.197
8	0.1	2.25	5	757	725	0.208
		1.0	6	333	288	0.173
		1.5	5	431	412	0.240
10	0.1	2.0	4	549	526	0.296
		2.5	3	658	630	0.339
		1.0	8	235	209	0.271
12	0.08	1.5	7	373	357	0.314
		2.0	6	478	458	0.395
		2.5	5	576	551	0.462
		3.0	4	666	638	0.518
14	0.08	1.0	10	235	209	0.271
		1.5	9	353	303	0.389
		2.0	8	409	391	0.493
		2.5	7	495	474	0.586
		3.0	6	576	551	0.606
		3.5	5	651	624	0.734
15	0.08	* 1	12	201	182	0.321
		1.5	11	302	625	0.462
		2.0	10	403	343	0.592
		2.5	9	434	417	0.709
		3.0	8	507	487	0.814
		3.5	7	576	553	0.906
16	0.08	4	6	576	553	0.986
		* 1.0	13	188	171	0.345
		1.5	12	282	248	0.499
		2.0	11	336	321	0.641
18	0.08	2.5	10	409	391	0.771
		3.0	9	478	458	0.888
		* 1.0	14	176	160	0.370
		1.5	13	264	234	0.536
20	0.08	2.0	12	353	303	0.691
		2.5	11	386	370	0.832
		3.0	10	452	433	0.962
		* 1.0	16	157	143	0.419
22	0.08	1.5	15	235	209	0.610
		2.0	14	313	273	0.789
		2.5	13	348	333	0.956
		3.0	12	409	391	1.110

Tube O.D (mm)	Tolerance (mm)	Wall Thickness (mm)	Tube I.D (mm)	Design Pressure(bar)		Weight (kg/m)
				DIN2413 Static	DIN2413 III Dynamic	
20	0.08	* 1.5	17	212	191	0.684
		2.0	16	282	249	0.888
		2.5	15	353	303	1.080
		3.0	14	373	357	1.260
		3.5	13	426	408	1.424
22	0.08	4.0	12	478	458	1.578
		1.5	19	192	174	0.758
		2.0	18	256	227	0.986
		2.5	17	320	278	1.202
25	0.08	3.0	16	343	328	1.406
		2.0	21	226	201	1.134
		2.5	20	282	248	1.387
		3.0	19	338	292	1.628
		4.0	17	394	378	2.072
28	0.08	4.5	16	437	418	2.275
		5.0	15	478	458	2.466
		1.5	25	151	139	0.980
		2.0	24	201	181	1.282
		2.5	23	252	223	1.572
30	0.08	3.0	22	302	264	1.850
		4.0	20	357	342	2.368
		5.0	18	434	415	2.836
		* 2.0	26	188	171	1.381
		2.5	25	235	210	1.695
35	0.15	3.0	24	282	248	2.000
		4.0	22	336	321	2.570
		5.0	20	409	391	3.080
		2.0	31	161	147	1.630
38	0.15	2.5	30	201	181	2.000
		3.0	29	242	215	2.370
		4.0	27	322	280	3.060
		5.0	25	357	342	3.690
		6.0	23	419	401	4.290
		* 2.5	33	186	168	2.189
42	0.2	3.0	32	223	200	2.589
		4.0	30	297	260	3.350
		5.0	28	332	318	4.075
		6.0	26	390	373	4.740
44	0.2	7.0	24	446	427	5.350
		* 2.0	28	134	124	1.973
		3.0	26	203	181	2.890
46	0.2	4.0	34	269	237	3.750

\* Tubing which requires a support sleeve for assembly in SUPERLOK DIN Type Tube Fittings.

## Tubing Guide

### Allowed Stainless Steel Tubes on All Series

- For steel tubes in stainless steel we suggest the use of seamless cold drawn tubing as per DIN 17458 or ASTM A269.
- Maximum allowable hardness on the outside diameter of the tube is 85 HRB.
- The indicated pressures are to be considered constant pressure and with temperatures between -60° and +200°.

Tube O.D (mm)	Tolerance (mm)	Wall Thickness (t mm)	Weight	Design Pressure
			(kg/m)	DIN 2413-1 (bar)
4	± 0.1	0.5	0.048	326
		1.0	0.076	544
6	± 0.1	1.0	0.125	406
		1.5	0.169	572
		2.0	0.200	721
8	± 0.1	1.0	0.225	347
		1.5	0.244	449
		2.0	0.301	572
		2.5	0.344	686
10	± 0.1	1.0	0.225	294
		1.5	0.319	389
		2.0	0.401	498
		2.5	0.469	601
		3.0	0.526	694
12	± 0.08	* 1.0	0.275	245
		1.5	0.394	368
		2.0	0.500	426
		2.5	0.595	516
		3.0	0.676	601
14	± 0.08	3.5	0.745	679
		1.5	0.469	315
		2.0	0.601	420
		2.5	0.720	452
15	± 0.08	3.0	0.826	529
		3.5	0.920	601
		1.5	0.507	294
16	± 0.08	2.0	0.651	392
		3.0	0.902	498
		* 1.5	0.544	275
18	± 0.08	2.0	0.702	368
		2.5	0.845	402
		3.0	0.977	471
		* 1.5	0.619	245

Tube O.D (mm)	Tolerance (mm)	Wall Thickness (t mm)	Weight	Design Pressure
			(kg/m)	DIN 2413-1 (bar)
18	± 0.08	2.0	0.801	326
		2.5	0.971	409
		3.0	1.128	426
20	± 0.08	** 2.0	0.902	294
		2.5	1.095	368
		3.0	1.277	389
		3.5	1.446	444
		4.0	1.602	498
22	± 0.08	* 2.0	1.001	267
		2.5	1.220	334
		3.0	1.427	401
25	± 0.08	* 2.0	1.151	236
		2.5	1.408	294
		3.0	1.653	352
		4.0	2.104	411
		4.5	2.310	456
28	± 0.08	* 2.0	1.301	210
		2.5	1.596	263
		3.0	1.878	315
30	± 0.08	* 2.0	1.402	175
		2.5	1.721	245
		3.0	2.028	294
		4.0	2.604	392
35	± 0.15	* 2.0	2.222	168
		2.5	2.034	210
		3.0	2.403	252
		4.0	3.104	336
38	± 0.15	* 3.0	2.628	232
		4.0	3.405	310
		5.0	4.131	387
42	± 0.2	3.0	2.929	210
		4.0	3.806	280

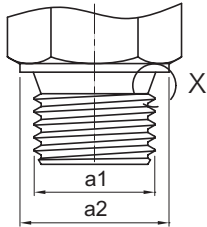
\* Tubing which requires a support sleeve for assembly in SUPERLOK DIN Type Tube Fittings.

\*\* Tubing used for ISO 8434-2 / SAE J514 only.

# Stud Ends & Tapered Hold Forms for Tube Fittings

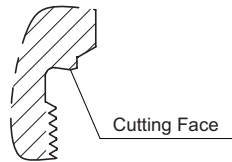
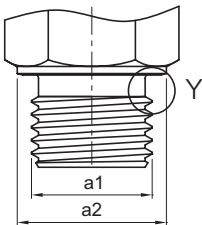
## Form of Stud Ends

### Form A (DIN3852 Part 1&2) with sealing by washer



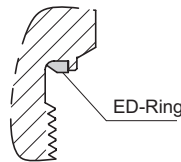
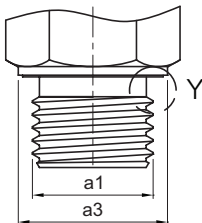
Detail X

### Form B (DIN 3852 Part 1&2) with sealing by compression against face of body.



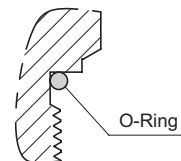
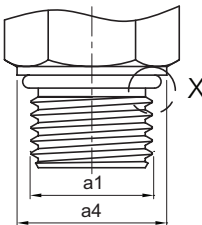
Detail Y

### Form E (DIN 3852 Part 11) with sealing by DIN 3869 ring seals (\*ED-Ring)



Detail Y

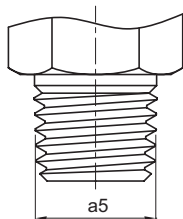
### Form F (DIN 3852 Part 3) with sealing by \*O-Ring



Detail X

\* ED-Ring & O-Ring Seals made of NBR Standard (-20°C to 100°C)  
Other Sealing Materials are available on Request.

### Form C (DIN 3852 Part 1&2) with sealing in tapered thread



Metric (keg) DIN 158  
B.S.P (keg) DIN 2999  
NPT (keg) ANSI/ASME  
B1.20.1-1983

### Thread size for Form A, B, E, F Stud Ends

a1	a2	a3 <sup>0</sup> -0.2	a4 ±0.1
M8 x 1.0	-	-	10.9
M10 x 1.0	14.0	13.9	12.9
M12 x 1.5	17.0	16.9	16.9
M14 x 1.5	19.0	18.9	18.9
M16 x 1.5	21.0	21.9	20.9
M18 x 1.5	23.0	23.9	22.9
M20 x 1.5	25.0	25.9	24.9
M22 x 1.5	27.0	26.9	26.9
M26 x 1.5	31.0	31.9	30.9
M27 x 2.0	32.0	31.9	31.9
M33 x 2.0	39.0	39.9	37.9
M42 x 2.0	49.0	49.9	47.9
M48 x 2.0	55.0	54.9	54.9
G 1/8	14.0	13.9	-
G 1/4	18.0	18.9	-
G 3/8	22.0	21.9	-
G 1/2	26.0	26.9	-
G 3/4	32.0	31.9	-
G 1	39.0	39.9	-
G 1 1/4	49.0	49.9	-
G 1 1/2	55.0	54.9	-
7/16-20UNF	-	-	14.4
9/16-18UNF	-	-	17.6
3/4-16UNF	-	-	22.3
7/8-14UNF	-	-	25.5
1 1/16-12UN	-	-	31.9
1 5/16-12UN	-	-	38.2
1 5/8-12UN	-	-	47.4

### Thread size for Form C Stud Ends

a5		
M8 x 1.0 keg.	1/8 NPT	R 1/8 keg.
M10 x 1.0 keg.	1/4 NPT	R 1/4 keg.
M12 x 1.5 keg.	3/8 NPT	R 3/8 keg.
M14 x 1.5 keg.	1/2 NPT	R 1/2 keg.
M16 x 1.5 keg.	3/4 NPT	R 3/4 keg.
M18 x 1.5 keg.	1 NPT	R 1 keg.
M20 x 1.5 keg.	1 1/4 NPT	R 1 1/4 keg.
M22 x 1.5 keg.	1 1/2 NPT	R 1 1/2 keg.





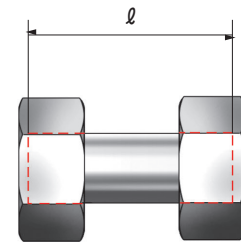
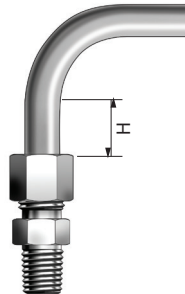
## Assembly in Fitting Body

The use of pre-assembly bodies or pre-assembly tools are strongly recommended for all assemblies. Stainless steel tube and fittings as well as stand pipe hose ends must be pre-assembled in a pre-assembly tool.

### A) Preparing the tube

**1** Maximum height H for straight tube end

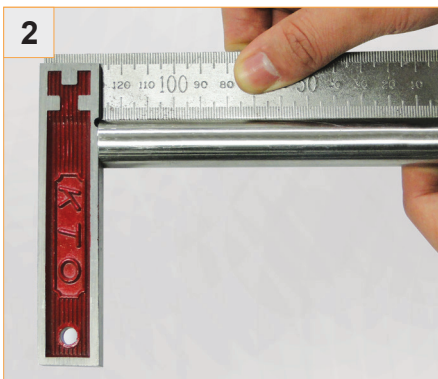
Minimum length L for short piece of tube



The portion of straight tube H must not deviate from roundness and straightness to the extent that the tube tolerances in DIN 2391 are exceeded.

Series tube o.d	LL				L								S											
	4	5	6	8	6	8	10	12	15	18	22	28	35	42	6	8	10	12	14	16	20	25	30	38
H min	24	25	25	26	31	31	33	33	36	38	41	41	48	48	35	35	37	37	43	43	50	54	58	65
ℓ min	30	32	32	33	39	39	42	42	45	48	53	53	60	60	44	44	47	47	54	54	63	68	73	82

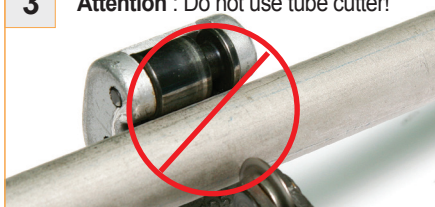
**2**



Saw off tube square  
1/2° angle tolerance to the tube axis.

**3**

**Attention :** Do not use tube cutter!



a) Cut with tube cutter :  
heavy burr / bevel cut



b) Sawed off tube: very little burr



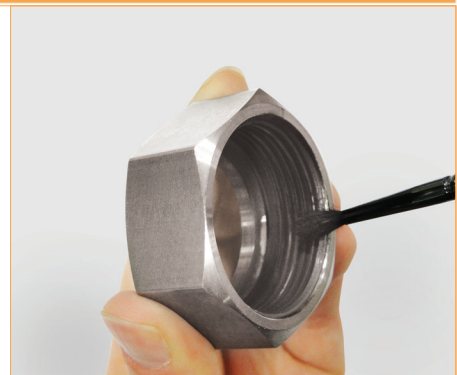
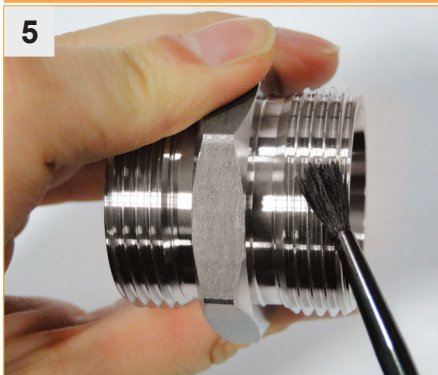
**4**



Lightly deburr inside and outside edge.  
Level up 0.3mm x 45° (0.012" x 45°) permissible.

### B) Preparing fittings parts with lubricants

**5**



Lubricate thread and cone of fitting body, as well as the compression ring and thread of nut.

## Assembly in Fitting Body

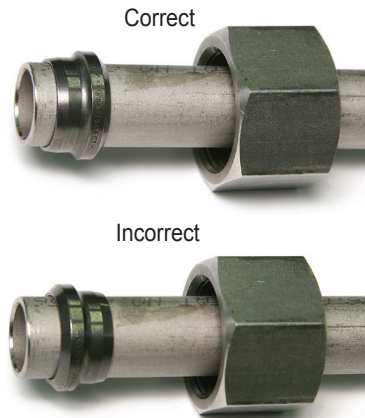
### C) Components

6



Slip nut and compression ring over tube end.

7



Ensure compression ring and nut are facing the right way.

### D) Assembly

8



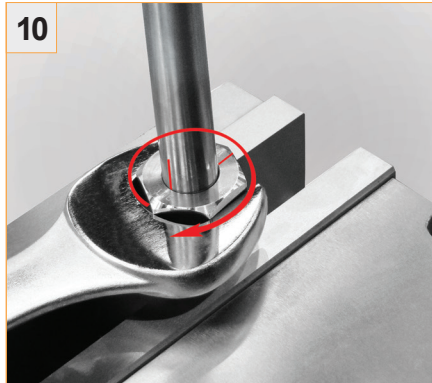
Screw nut manually onto fitting body until finger tight. Hold tube against the shoulder in the cone of fitting body.

9



To measure the prescribed turns of the nut, mark the nut and tube.

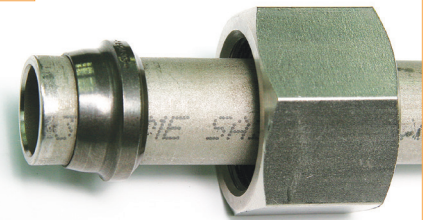
10



Tighten nut 1-1/2 turns (tube must not turn with nut). Stop edge limits over tightening by increasing tightening torque.

### E) Check

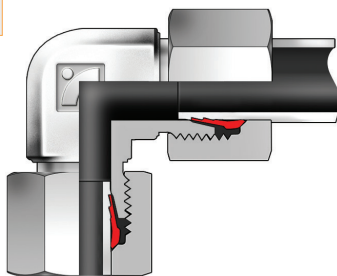
11



Loosen nut. Remove tube from fitting and check if a visible collar completely fills the space in front of the first cutting edge. If not, tighten slightly more. It does not matter if the ring can be rotated on the tube end.

### F) Final assembly

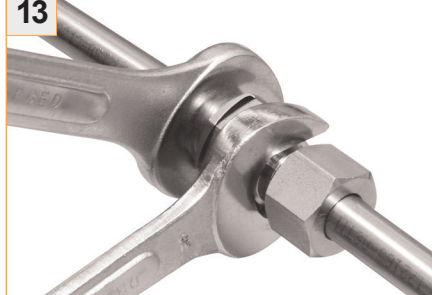
12



Final assembly of all pre-assembled fittings (DSE, DSBT, DSRT, DSRA) made in the appropriate body (well lubricated) with at least 1/4 turn of the nut beyond the point where notable resistance is felt.

### G) Remake assembly

13



To remake joints, tighten the nut without increased effort. The fitting body must be held tight.

\* After dismantling the tube ends for inspection they should be refitted into the same inner cone of the fitting body in which assembly was carried out.



### WARNING

We warn against using sealing heads from A, DIN 3868.

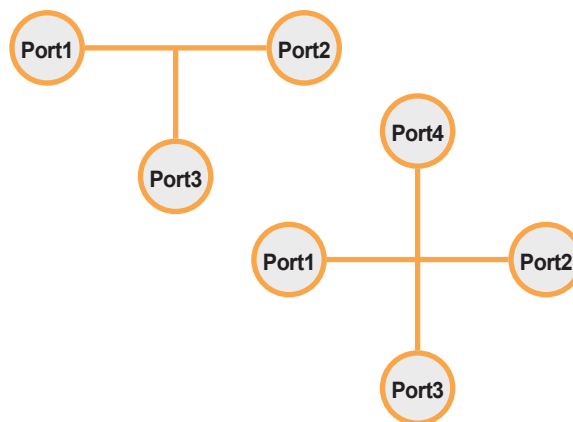
We recommend the use of swivel nuts, from B in conformance with DIN 3865.

## Ordering Information

Example 1	Male Connector								
<b>D</b>	<b>CM</b>	-	<b>10</b>	<b>L</b>	-	<b>02G</b>	<b>ED</b>	-	<b>SS</b>
<u>1</u>	<u>2</u>		<u>3</u>	<u>4</u>		<u>5</u>	<u>6</u>		<u>7</u>

Example 2	Reducing Union Tee											
<b>D</b>	<b>RUT</b>	-	<b>10</b>	<b>L</b>	-	<b>10</b>	<b>L</b>	-	<b>08</b>	<b>L</b>	-	<b>B</b>
<u>1</u>	<u>2</u>		<u>3</u>	<u>4</u>		<u>3</u>	<u>4</u>		<u>3</u>	<u>4</u>		<u>7</u>
			* Port1			* Port2			* Port3			

In tees and crosses shown below port2 is referred to as run and port3, port4 is referred to as branch



### 1. SUPERLOK Bite Type Tube Fitting

### 2. Name of Fitting :Refer to Index

### 3. Tube O.D

Tube O.D	4mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	20mm	22mm	25mm	28mm	30mm	35mm	38mm	42mm
Identify	4	6	8	10	12	15	16	18	20	22	25	28	30	35	38	42

### 4. Series

Series	Very Light	Light	Heavy
Identify	LL	L	S

### 5. Thread Size : See Thread Specification

### 6. Elastomer : ED-Ring & O - Ring seal (Refer to Seal Material)

### 7. Fitting Material

Carbon Steel (DIN3859)	316 Stainless Steel (DIN17440/1.4571)	Brass
C	SS	B

## Thread Specifications

### Pipe Thread

Thread Type	Thread Size									Specification
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	
NPT	01N	02N	03N	04N	06N	08N	10N	12N	16N	ANSI/ASME B1.20.1
ISO/BSP Parallel	01G	02G	03G	04G	06G	08G	10G	12G	16G	ISO228 (DIN259)
ISO/BSP Tapered	01R	02R	03R	04R	06R	08R	10R	12R	16R	DIN - 2999

### Metric Thread

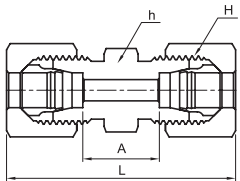
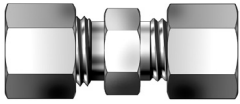
Thread Type	Thread Size									Specification
	M8 x 1.0	M10 x 1.0	M12x 1.5	M14 x 1.5	M16 x 1.5	M18 x 1.5	.....	M42 x 2.0	M48 x 2.0	
Metric Parallel	M8	M10	M12	M14	M16	M18	.....	M42	M48	DIN - 13
Metric Tapered(Keg)	M8K	M10K	M12K	M14K	M16K	M18K	.....	M42K	M48K	DIN - 158

### Unified Thread

Specification	Thread Size						
	7/16-20UNF	9/16-18UNF	3/4-16UNF	7/8-14UNF	1 1/16-12UN	1 5/16-12UN	1 5/8-12UN
ASME B1.1	4U	6U	8U	10U	12U	16U	20U

# DUS

## Union

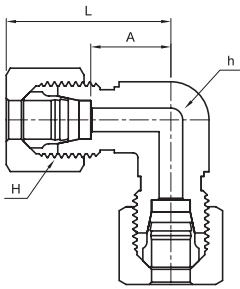
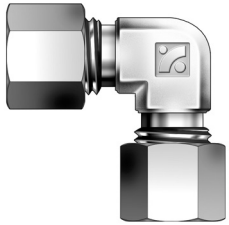


Series	Part Number	Tube O.D.	Dimension			
			H	h	L	A
<b>LL</b> <b>Very Light</b> <b>PN 100</b>	DUS-04LL	4	10.0	9.0	31.0	12.0
	DUS-06LL	6	12.0	11.0	32.0	9.0
	DUS-08LL	8	14.0	12.0	35.0	12.0
	DUS-10LL	10	17.0	14.0	35.0	12.0
	DUS-12LL	12	19.0	17.0	35.0	11.0
<b>L</b> <b>Light</b> <b>PN 315</b>	DUS-06L	6	14.0	12.0	39.0	10.0
	DUS-08L	8	17.0	14.0	40.0	11.0
	DUS-10L	10	19.0	17.0	42.0	13.0
	DUS-12L	12	22.0	19.0	43.0	14.0
	DUS-15L	15	27.0	24.0	46.0	16.0
	DUS-18L	18	32.0	27.0	48.0	16.0
<b>PN 160</b>	DUS-22L	22	36.0	32.0	52.0	20.0
	DUS-28L	28	41.0	41.0	54.0	21.0
	DUS-35L	35	50.0	46.0	63.0	20.0
<b>S</b> <b>Heavy</b> <b>PN 630</b>	DUS-42L	42	60.0	55.0	66.0	21.0
	DUS-06S	6	17.0	14.0	45.0	16.0
	DUS-08S	8	19.0	17.0	47.0	18.0
	DUS-10S	10	22.0	19.0	49.0	17.0
<b>PN 400</b>	DUS-12S	12	24.0	22.0	51.0	19.0
	DUS-14S	14	27.0	24.0	57.0	22.0
	DUS-16S	16	30.0	27.0	57.0	21.0
	DUS-20S	20	36.0	32.0	66.0	23.0
<b>PN 315</b>	DUS-25S	25	46.0	41.0	74.0	26.0
	DUS-30S	30	50.0	46.0	80.0	27.0
	DUS-38S	38	60.0	55.0	90.0	29.0

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change
- Dimensions given approximate length with tightened nut.

## DUE

### Union Elbow

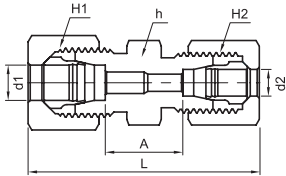
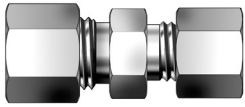


Series	Part Number	Tube O.D.	Dimension			
			H	h	L	A
<b>LL</b> <b>Very Light</b> <b>PN 100</b>	DUE-04LL	4	10.0	9.0	21.0	11.0
	DUE-06LL	6	12.0	9.0	21.0	9.5
	DUE-08LL	8	14.0	12.0	23.0	11.5
	DUE-10LL	10	17.0	14.0	24.0	12.5
	DUE-12LL	12	19.0	17.0	25.0	13.0
<b>L</b> <b>Light</b> <b>PN 315</b>	DUE-06L	6	14.0	12.0	27.0	12.0
	DUE-08L	8	17.0	12.0	29.0	14.0
	DUE-10L	10	19.0	14.0	30.0	15.0
	DUE-12L	12	22.0	17.0	32.0	17.0
	DUE-15L	15	27.0	19.0	36.0	21.0
<b>PN 160</b>	DUE-18L	18	32.0	24.0	40.0	23.5
	DUE-22L	22	36.0	27.0	44.0	27.5
	DUE-28L	28	41.0	36.0	47.0	30.5
	DUE-35L	35	50.0	41.0	56.0	34.5
<b>S</b> <b>Heavy</b> <b>PN 630</b>	DUE-42L	42	60.0	50.0	63.0	40.0
	DUE-06S	6	17.0	12.0	31.0	16.0
	DUE-08S	8	19.0	14.0	32.0	17.0
	DUE-10S	10	22.0	17.0	34.0	17.5
	DUE-12S	12	24.0	17.0	38.0	21.5
<b>PN 400</b>	DUE-14S	14	27.0	19.0	40.0	22.0
	DUE-16S	16	30.0	24.0	43.0	24.5
	DUE-20S	20	36.0	27.0	48.0	26.5
<b>PN 315</b>	DUE-25S	25	46.0	36.0	54.0	30.0
	DUE-30S	30	50.0	41.0	62.0	35.5
<b>PN 315</b>	DUE-38S	38	60.0	50.0	72.0	41.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DRU

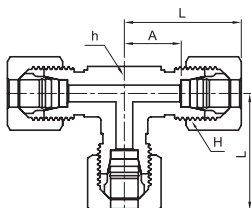
## Reducing Union



Series	Part Number	Tube O.D.		Dimension				
		d1	d2	H1	H2	h	L	A
<b>L Light PN 315</b>	DRU-08L-06L	8	6	17.0	14.0	14.0	40.0	11.0
	DRU-10L-06L	10	6	19.0	14.0	17.0	41.0	12.0
	DRU-10L-08L	10	8	19.0	17.0	17.0	41.0	12.0
	DRU-12L-06L	12	6	22.0	14.0	19.0	42.0	13.0
	DRU-12L-08L	12	8	22.0	17.0	19.0	42.0	13.0
	DRU-12L-10L	12	10	22.0	19.0	19.0	43.0	14.0
	DRU-15L-10L	15	10	27.0	19.0	24.0	45.0	15.0
	DRU-15L-12L	15	12	27.0	22.0	24.0	45.0	15.0
	DRU-18L-10L	18	10	32.0	19.0	27.0	46.0	15.5
	DRU-18L-12L	18	12	32.0	22.0	27.0	46.0	15.5
	DRU-18L-15L	18	15	32.0	27.0	27.0	48.0	16.5
	<b>PN 160</b>	DRU-22L-12L	22	12	36.0	22.0	32.0	48.0
DRU-22L-15L		22	15	36.0	27.0	32.0	50.0	18.5
DRU-22L-18L		22	18	36.0	32.0	32.0	50.0	18.0
DRU-28L-18L		28	18	41.0	32.0	41.0	52.0	19.0
DRU-28L-22L		28	22	41.0	36.0	41.0	54.0	21.0
DRU-35L-22L		35	22	50.0	36.0	46.0	59.0	21.0
<b>S Heavy PN 630</b>	DRU-35L-28L	35	28	50.0	41.0	46.0	59.0	21.0
	DRU-08S-06S	8	6	19.0	17.0	17.0	47.0	18.0
	DRU-10S-06S	10	6	22.0	17.0	19.0	48.0	17.5
	DRU-10S-08S	10	8	22.0	19.0	19.0	48.0	17.5
	DRU-12S-06S	12	6	24.0	17.0	22.0	50.0	19.5
	DRU-12S-08S	12	8	24.0	19.0	22.0	50.0	19.5
	DRU-12S-10S	12	10	24.0	22.0	22.0	51.0	19.0
	DRU-14S-10S	14	10	27.0	22.0	24.0	54.0	20.5
DRU-14S-12S	14	12	27.0	24.0	24.0	54.0	20.5	
<b>PN 400</b>	DRU-16S-12S	16	12	30.0	24.0	27.0	54.0	20.0
	DRU-16S-14S	16	14	30.0	27.0	27.0	57.0	21.5
	DRU-20S-10S	20	10	36.0	22.0	32.0	60.0	22.0
	DRU-20S-12S	20	12	36.0	24.0	32.0	60.0	22.0
	DRU-20S-16S	20	16	36.0	30.0	32.0	63.0	23.0
	DRU-25S-16S	25	16	46.0	30.0	41.0	68.0	25.0
	DRU-25S-20S	25	20	46.0	36.0	41.0	71.0	25.5
<b>PN 315</b>	DRU-30S-20S	30	20	50.0	36.0	46.0	74.0	26.0
	DRU-30S-25S	30	25	50.0	46.0	46.0	77.0	26.5
<b>PN 315</b>	DRU-38S-30S	38	30	60.0	50.0	55.0	87.0	29.5

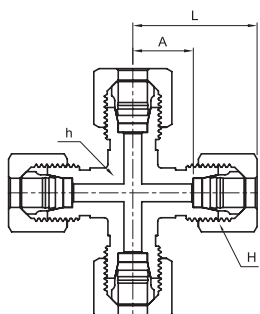
\* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 \* Dimensions given approximate length with tightened nut.

## DUT Union Tee



Series	Part Number	Tube O.D.	Dimension			
			H	h	L	A
<b>LL Very Light PN 100</b>	DUT-04LL	4	10.0	9.0	21.0	11.0
	DUT-06LL	6	12.0	9.0	21.0	9.5
	DUT-08LL	8	14.0	12.0	23.0	11.5
	DUT-10LL	10	17.0	14.0	24.0	12.5
	DUT-12LL	12	19.0	14.0	27.0	15.0
<b>L Light PN 315</b>	DUT-06L	6	14.0	12.0	27.0	12.0
	DUT-08L	8	17.0	12.0	29.0	14.0
	DUT-10L	10	19.0	14.0	30.0	15.0
	DUT-12L	12	22.0	17.0	32.0	17.0
	DUT-15L	15	27.0	19.0	36.0	21.0
	DUT-18L	18	32.0	24.0	40.0	23.5
<b>PN 160</b>	DUT-22L	22	36.0	27.0	44.0	27.5
	DUT-28L	28	41.0	36.0	47.0	30.5
	DUT-35L	35	50.0	41.0	56.0	34.5
	DUT-42L	42	60.0	50.0	63.0	40.0
<b>S Heavy PN 630</b>	DUT-06S	6	17.0	12.0	31.0	16.0
	DUT-08S	8	19.0	14.0	32.0	17.0
	DUT-10S	10	22.0	17.0	34.0	17.5
	DUT-12S	12	24.0	17.0	38.0	21.5
	DUT-14S	14	27.0	19.0	40.0	22.0
<b>PN 400</b>	DUT-16S	16	30.0	24.0	43.0	24.5
	DUT-20S	20	36.0	27.0	48.0	26.5
	DUT-25S	25	46.0	36.0	54.0	30.0
<b>PN 315</b>	DUT-30S	30	50.0	41.0	62.0	35.5
	DUT-38S	38	60.0	50.0	72.0	41.0

## DUC Union Cross

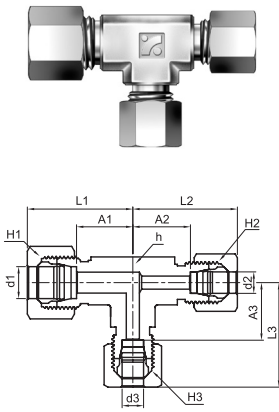


Series	Part Number	Tube O.D.	Dimension			
			H	h	L	A
<b>LL Very Light PN 100</b>	DUC-04LL	4	10.0	9.0	21.0	11.0
	DUC-06LL	6	12.0	9.0	21.0	9.5
	DUC-08LL	8	14.0	12.0	23.0	11.5
	DUC-10LL	10	17.0	14.0	24.0	12.5
	DUC-12LL	12	19.0	14.0	27.0	15.0
<b>L Light PN 315</b>	DUC-06L	6	14.0	12.0	27.0	12.0
	DUC-08L	8	17.0	12.0	29.0	14.0
	DUC-10L	10	19.0	14.0	30.0	15.0
	DUC-12L	12	22.0	17.0	32.0	17.0
	DUC-15L	15	27.0	19.0	36.0	21.0
	DUC-18L	18	32.0	24.0	40.0	23.5
<b>PN 160</b>	DUC-22L	22	36.0	27.0	44.0	27.5
	DUC-28L	28	41.0	36.0	47.0	30.5
	DUC-35L	35	50.0	41.0	56.0	34.5
	DUC-42L	42	60.0	50.0	63.0	40.0
<b>S Heavy PN 630</b>	DUC-06S	6	17.0	12.0	31.0	16.0
	DUC-08S	8	19.0	14.0	32.0	17.0
	DUC-10S	10	22.0	17.0	34.0	17.5
	DUC-12S	12	24.0	17.0	38.0	21.5
	DUC-14S	14	27.0	19.0	40.0	22.0
<b>PN 400</b>	DUC-16S	16	30.0	24.0	43.0	24.5
	DUC-20S	20	36.0	27.0	48.0	26.5
	DUC-25S	25	46.0	36.0	54.0	30.0
<b>PN 315</b>	DUC-30S	30	50.0	41.0	62.0	35.5
	DUC-38S	38	60.0	50.0	72.0	41.0

\* All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DRUT

## Reducing Union Tee

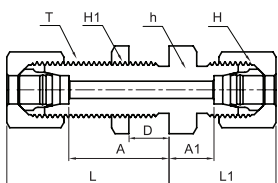
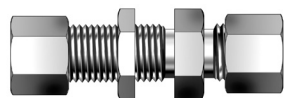


Series	Part Number	Tube O.D.			Dimension									
		d1	d2	d3	H1	H2	H3	h	L1	L2	L3	A1	A2	A3
<b>L Light</b> <b>PN 316</b>	DRUT-06L-06L-08L	6	6	8	14	14	17	14	29	29	29	14.0	14.0	14.0
	DRUT-08L-08L-06L	8	8	6	17	17	14	14	29	29	29	14.0	14.0	14.0
<b>PN 315</b>	DRUT-06L-06L-10L	6	6	10	14	14	19	14	30	30	30	15.0	15.0	15.0
	DRUT-08L-08L-10L	8	8	10	17	17	19	14	30	30	30	15.0	15.0	15.0
	DRUT-10L-10L-06L	10	10	6	19	19	14	14	30	30	30	15.0	15.0	15.0
	DRUT-10L-10L-08L	10	10	8	19	19	17	14	30	30	30	15.0	15.0	15.0
<b>PN 315</b>	DRUT-10L-06L-10L	10	6	10	19	14	19	14	30	30	30	15.0	15.0	15.0
	DRUT-08L-08L-12L	8	8	12	17	17	22	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-12L-06L	12	12	6	22	22	14	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-08L-08L	12	8	8	22	17	17	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-12L-08L	12	12	8	22	22	17	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-10L-10L	12	10	10	22	19	19	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-12L-10L	12	12	10	22	22	19	17	32	32	32	17.0	17.0	17.0
	DRUT-12L-10L-12L	12	10	12	22	19	22	17	32	32	32	17.0	17.0	17.0
<b>PN 315</b>	DRUT-10L-10L-15L	10	10	15	19	19	27	19	36	36	36	21.0	21.0	21.0
	DRUT-12L-12L-15L	12	12	15	22	22	27	19	36	36	36	21.0	21.0	21.0
	DRUT-15L-15L-06L	15	15	6	27	27	14	19	36	36	36	21.0	21.0	21.0
	DRUT-15L-15L-10L	15	15	10	27	27	19	19	36	36	36	21.0	21.0	21.0
	DRUT-15L-12L-12L	15	12	12	27	22	22	19	36	36	36	21.0	21.0	21.0
	DRUT-15L-15L-12L	15	15	12	27	27	22	19	36	36	36	21.0	21.0	21.0
<b>PN 315</b>	DRUT-15L-12L-15L	15	12	15	27	22	27	19	36	36	36	21.0	21.0	21.0
	DRUT-12L-12L-18L	12	12	18	22	22	32	24	39	39	40	24.0	24.0	23.5
	DRUT-18L-10L-10L	18	10	10	32	19	19	24	40	39	39	23.5	24.0	24.0
	DRUT-18L-18L-10L	18	18	10	32	32	19	24	40	40	39	23.5	23.5	24.0
	DRUT-18L-18L-12L	18	18	12	32	32	22	24	40	40	39	23.5	23.5	24.0
<b>PN 315</b>	DRUT-18L-18L-15L	18	18	15	32	32	27	24	40	40	39	23.5	23.5	24.0
	DRUT-18L-10L-18L	18	10	18	32	19	32	27	40	39	40	23.5	24.0	23.5
	DRUT-22L-22L-10L	22	22	10	36	36	19	27	44	44	43	27.5	27.5	28.0
	DRUT-22L-22L-12L	22	22	12	36	36	22	27	44	44	43	27.5	27.5	28.0
	DRUT-22L-15L-15L	22	15	15	36	27	27	27	44	43	43	27.5	28.0	28.0
	DRUT-22L-22L-15L	22	22	15	36	36	27	27	44	44	43	27.5	27.5	28.0
<b>PN 160</b>	DRUT-22L-18L-18L	22	18	18	36	32	32	27	44	44	44	27.5	27.5	27.5
	DRUT-22L-22L-18L	22	22	18	36	36	32	27	44	44	44	27.5	27.5	27.5
	DRUT-22L-18L-22L	22	18	22	36	32	36	27	44	44	44	27.5	27.5	27.5
	DRUT-28L-28L-10L	28	28	10	41	41	19	36	47	44	46	30.5	30.5	31.0
	DRUT-28L-28L-12L	28	28	12	41	41	22	36	47	47	46	30.5	30.5	31.0
	DRUT-28L-28L-15L	28	28	15	41	41	27	36	47	47	46	30.5	30.5	31.0
<b>PN 160</b>	DRUT-28L-28L-18L	28	28	18	41	41	32	36	47	47	47	30.5	30.5	30.5
	DRUT-28L-22L-22L	28	22	22	41	36	36	36	47	47	47	30.5	30.5	30.5
<b>PN 160</b>	DRUT-28L-28L-22L	28	28	22	41	41	36	36	47	47	47	30.5	30.5	30.5
	DRUT-10S-10S-06S	10	10	6	22	22	17	17	34	34	33	17.5	17.5	18.0
<b>S Heavy</b> <b>PN 630</b>	DRUT-12S-08S-08S	12	8	8	24	19	19	17	38	37	37	21.5	22.0	22.0
	DRUT-12S-12S-08S	12	12	8	24	24	19	17	38	38	37	21.5	21.5	22.0
<b>PN 400</b>	DRUT-12S-12S-10S	12	12	10	24	24	22	17	38	38	38	21.5	21.5	21.5
	DRUT-12S-12S-16S	12	12	16	24	24	30	24	42	42	43	25.5	25.5	24.5
	DRUT-16S-16S-06S	16	16	6	30	30	17	24	43	43	41	24.5	24.5	26.0
	DRUT-16S-16S-08S	16	16	8	30	30	19	24	43	43	41	24.5	24.5	26.0
	DRUT-16S-16S-10S	16	16	10	30	30	22	24	43	43	42	24.5	24.5	25.5
	DRUT-16S-16S-12S	16	16	12	30	30	24	24	43	43	42	24.5	24.5	25.5
<b>PN 400</b>	DRUT-16S-16S-20S	16	16	20	30	30	36	27	47	47	48	28.5	28.5	26.5
	DRUT-20S-20S-10S	20	20	10	36	36	22	27	48	48	46	26.5	26.5	29.5
	DRUT-20S-20S-12S	20	20	12	36	36	24	27	48	48	46	26.5	26.5	29.5
<b>PN 400</b>	DRUT-20S-20S-16S	20	20	16	36	36	30	27	48	48	47	26.5	26.5	28.5
	DRUT-20S-20S-25S	20	20	25	36	36	46	36	53	53	54	31.5	31.5	30.0
	DRUT-25S-25S-16S	25	25	16	46	46	30	36	54	54	52	30.0	30.0	33.5
	DRUT-25S-25S-20S	25	25	20	46	46	36	36	54	54	53	30.0	30.0	31.5
<b>PN 400</b>	DRUT-25S-25S-30S	25	25	30	46	46	50	41	61	61	62	37.0	37.0	35.5

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.



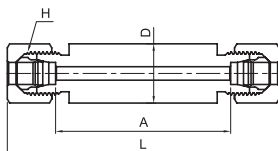
## DBHU Bulkhead Union



D=16mm Max Bulkhead thickness

Series	Part Number	Tube O.D.	Dimension							
			H	H1	h	L	L1	A	A1	T
<b>L Light PN 315</b>	DBHU-06L	6	14.0	17.0	17.0	42.0	22.0	27.0	7.0	M12 x 1.5
	DBHU-08L	8	17.0	19.0	19.0	42.0	23.0	27.0	8.0	M14 x 1.5
	DBHU-10L	10	19.0	22.0	22.0	43.0	25.0	28.0	10.0	M16 x 1.5
	DBHU-12L	12	22.0	24.0	24.0	44.0	25.0	29.0	10.0	M18 x 1.5
	DBHU-15L	15	27.0	30.0	27.0	46.0	27.0	31.0	12.0	M22 x 1.5
	DBHU-18L	18	32.0	36.0	32.0	49.0	30.0	32.5	13.5	M26 x 1.5
<b>PN 160</b>	DBHU-22L	22	36.0	41.0	36.0	51.0	33.0	34.5	16.5	M30 x 2.0
	DBHU-28L	28	41.0	46.0	41.0	52.0	35.0	35.5	18.5	M36 x 2.0
	DBHU-35L	35	50.0	55.0	50.0	58.0	40.0	36.5	18.5	M45 x 2.0
	DBHU-42L	42	60.0	65.0	60.0	59.0	42.0	36.0	19.0	M52 x 2.0
<b>S Heavy PN 630</b>	DBHU-06S	6	17.0	19.0	19.0	44.0	27.0	29.0	12.0	M14 x 1.5
	DBHU-08S	8	19.0	22.0	22.0	44.0	28.0	29.0	13.0	M16 x 1.5
	DBHU-10S	10	22.0	24.0	24.0	46.0	31.0	29.5	14.5	M18 x 1.5
	DBHU-12S	12	24.0	27.0	27.0	47.0	31.0	30.5	14.5	M20 x 1.5
	DBHU-14S	14	27.0	30.0	30.0	50.0	35.0	32.0	17.0	M22 x 1.5
<b>PN 400</b>	DBHU-16S	16	30.0	32.0	32.0	50.0	35.0	31.5	16.5	M24 x 1.5
	DBHU-20S	20	36.0	41.0	41.0	55.0	39.0	33.5	17.5	M30 x 2.0
	DBHU-25S	25	46.0	46.0	46.0	59.0	44.0	35.0	20.0	M36 x 2.0
	DBHU-30S	30	50.0	50.0	50.0	64.0	48.0	37.5	21.5	M42 x 2.0
<b>PN 315</b>	DBHU-38S	38	60.0	65.0	65.0	68.0	53.0	37.0	22.0	M52 x 2.0

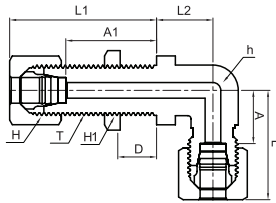
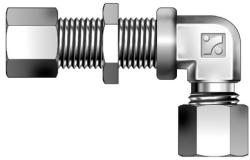
## DBUW Weld Bulkhead Union



Series	Part Number	Tube O.D.	Dimension			
			H	D	L	A
<b>L Light PN 315</b>	DBUW-06L	6	14.0	18.0	85.0	56.0
	DBUW-08L	8	17.0	20.0	85.0	56.0
	DBUW-10L	10	19.0	22.0	87.0	58.0
	DBUW-12L	12	22.0	25.0	87.0	58.0
	DBUW-15L	15	27.0	28.0	100.0	70.0
	DBUW-18L	18	32.0	32.0	101.0	69.0
<b>PN 315</b>	DBUW-22L	22	36.0	36.0	105.0	73.0
	DBUW-28L	28	41.0	40.0	106.0	73.0
	DBUW-35L	35	50.0	50.0	114.0	71.0
	DBUW-42L	42	60.0	60.0	115.0	70.0
<b>S Heavy PN 630</b>	DBUW-06S	6	17.0	20.0	89.0	60.0
	DBUW-08S	8	19.0	22.0	89.0	60.0
	DBUW-10S	10	22.0	25.0	91.0	59.0
	DBUW-12S	12	24.0	28.0	91.0	59.0
	DBUW-14S	14	27.0	30.0	107.0	72.0
<b>PN 400</b>	DBUW-16S	16	30.0	35.0	107.0	71.0
	DBUW-20S	20	36.0	38.0	114.0	71.0
	DBUW-25S	25	46.0	45.0	120.0	72.0
	DBUW-30S	30	50.0	50.0	126.0	73.0
<b>PN 315</b>	DBUW-38S	38	60.0	60.0	133.0	72.0

# DBUE

## Bulkhead Union Elbow



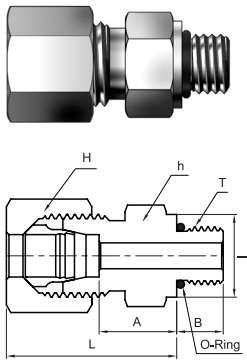
D=16mm Max Bulkhead thickness

Series	Part Number	Tube O.D.	Dimension								
			H	H1	h	L	L1	L2	A	A1	T
<b>L Light PN 315</b>	DBUE-06L	6	14.0	17.0	12.0	27.0	42.0	14.0	12.0	27.0	M12 x 1.5
	DBUE-08L	8	17.0	19.0	12.0	29.0	42.0	17.0	14.0	27.0	M14 x 1.5
	DBUE-10L	10	19.0	22.0	14.0	30.0	43.0	18.0	15.0	28.0	M16 x 1.5
	DBUE-12L	12	22.0	24.0	17.0	32.0	44.0	20.0	17.0	29.0	M18 x 1.5
	DBUE-15L	15	27.0	30.0	19.0	36.0	46.0	23.0	21.0	31.0	M22 x 1.5
	DBUE-18L	18	32.0	36.0	24.0	40.0	49.0	24.0	23.5	32.5	M26 x 1.5
<b>PN 160</b>	DBUE-22L	22	36.0	41.0	27.0	44.0	51.0	30.0	27.5	34.5	M30 x 2.0
	DBUE-28L	28	41.0	46.0	36.0	47.0	52.0	34.0	30.5	35.5	M36 x 2.0
	DBUE-35L	35	50.0	55.0	41.0	56.0	58.0	39.0	34.5	36.5	M45 x 2.0
	DBUE-42L	42	60.0	65.0	50.0	63.0	59.0	43.0	40.0	36.0	M52 x 2.0
<b>S Heavy PN 630</b>	DBUE-06S	6	17.0	19.0	12.0	31.0	44.0	17.0	16.0	29.0	M14 x 1.5
	DBUE-08S	8	19.0	22.0	14.0	32.0	44.0	18.0	17.0	29.0	M16 x 1.5
	DBUE-10S	10	22.0	24.0	17.0	34.0	46.0	20.0	17.5	29.5	M18 x 1.5
	DBUE-12S	12	24.0	27.0	17.0	38.0	47.0	21.0	21.5	30.5	M20 x 1.5
	DBUE-14S	14	27.0	30.0	19.0	40.0	50.0	23.0	22.0	32.0	M22 x 1.5
	DBUE-16S	16	30.0	32.0	24.0	43.0	50.0	24.0	24.5	31.5	M24 x 1.5
<b>PN 400</b>	DBUE-20S	20	36.0	41.0	27.0	48.0	55.0	30.0	26.5	33.5	M30 x 2.0
	DBUE-25S	25	46.0	46.0	36.0	54.0	59.0	34.0	30.0	35.0	M36 x 2.0
	DBUE-30S	30	50.0	50.0	41.0	62.0	64.0	39.0	35.5	37.5	M42 x 2.0
<b>PN 315</b>	DBUE-38S	38	60.0	65.0	50.0	72.0	68.0	43.0	41.0	37.0	M52 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DCM-UO/MO (Unified/Mertic Parallel)

## Male Connector with O-Ring



### Unified Thread Type

Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	B	T
<b>L Light</b> <b>PN 315</b>	DCM-08L-04UO	8	17.0	17.0	14.4	25.0	9.0	10.0	7/16-20UNF-2A
	DCM-10L-04UO	10	19.0	17.0	14.4	26.0	10.0	11.0	7/16-20UNF-2A
	DCM-12L-06UO	12	22.0	19.0	17.6	26.0	10.0	11.0	9/16-18UNF-2A
	DCM-12L-08UO	12	22.0	24.0	22.3	28.0	11.0	13.0	3/4-16UNF-2A
	DCM-12L-10UO	12	22.0	27.0	25.5	29.0	12.7	14.3	7/8-14UNF-2A
	DCM-15L-08UO	15	27.0	24.0	22.3	29.0	11.0	14.0	3/4-16UNF-2A
	DCM-15L-10UO	15	27.0	27.0	25.5	30.0	12.7	15.3	7/8-14UNF-2A
	DCM-18L-08UO	18	32.0	27.0	22.3	31.0	11.0	14.5	3/4-16UNF-2A
DCM-18L-10UO	18	32.0	27.0	25.5	31.0	12.7	14.8	7/8-14UNF-2A	
<b>PN 160</b>	DCM-22L-10UO	22	36.0	32.0	25.5	33.0	12.7	16.8	7/8-14UNF-2A
	DCM-22L-12UO	22	36.0	32.0	31.9	33.0	15.0	16.5	1 1/16-12UN-2A
	DCM-22L-16UO	22	36.0	41.0	38.2	34.0	15.0	17.5	1 5/16-12UN-2A
	DCM-28L-12UO	28	41.0	41.0	31.9	34.0	15.0	17.5	1 1/16-12UN-2A
	DCM-28L-16UO	28	41.0	41.0	38.2	34.0	15.0	17.5	1 5/16-12UN-2A
	DCM-35L-16UO	35	50.0	46.0	38.2	39.0	15.0	17.5	1 5/16-12UN-2A
<b>S Heavy</b> <b>PN 630</b>	DCM-35L-20UO	35	50.0	50.0	47.7	39.0	15.0	17.5	1 5/8-12UN-2A
	DCM-42L-20UO	42	60.0	55.0	47.7	42.0	15.0	19.0	1 5/8-12UN-2A
<b>PN 400</b>	DCM-08S-04UO	8	19.0	17.0	16.0	30.0	9.0	15.0	7/16-20UNF-2A
	DCM-10S-06UO	10	22.0	19.0	17.6	31.0	10.0	14.5	9/16-18UNF-2A
	DCM-12S-06UO	12	24.0	22.0	17.6	31.0	10.0	14.5	9/16-18UNF-2A
	DCM-12S-08UO	12	24.0	24.0	22.3	34.0	11.0	17.5	3/4-16UNF-2A
	DCM-16S-08UO	16	30.0	24.0	22.3	34.0	11.0	15.5	3/4-16UNF-2A
	DCM-16S-10UO	16	30.0	27.0	25.5	37.0	12.7	18.8	7/8-14UNF-2A
	DCM-20S-08UO	20	36.0	32.0	22.3	42.0	11.0	20.5	3/4-16UNF-2A
	DCM-20S-10UO	20	36.0	32.0	25.5	42.0	12.7	20.8	7/8-14UNF-2A
<b>PN 315</b>	DCM-20S-12UO	20	36.0	32.0	31.9	42.0	15.0	20.5	1 1/16-12UN-2A
	DCM-25S-12UO	25	46.0	36.0	31.9	47.0	15.0	23.0	1 1/16-12UN-2A
	DCM-25S-16UO	25	46.0	41.0	38.2	47.0	15.0	23.0	1 5/16-12UN-2A
	DCM-30S-16UO	30	50.0	46.0	38.2	50.0	15.0	23.5	1 5/16-12UN-2A
DCM-30S-20UO	30	50.0	50.0	47.7	50.0	15.0	23.5	1 5/8-12UN-2A	
DCM-38S-20UO	38	60.0	55.0	47.7	57.0	15.0	26.0	1 5/8-12UN-2A	

### Metric Parallel Tread Type

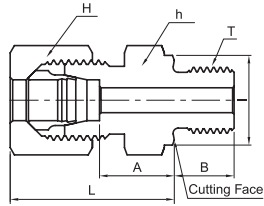
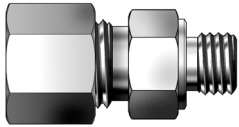
Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	B	T
<b>L Light</b> <b>PN 315</b>	DCM-06L-MO10	6	14.0	14.0	-	23.0	10.0	8.5	M10 x 1.0
	DCM-08L-MO12	8	17.0	17.0	-	25.0	11.5	10.0	M12 x 1.5
	DCM-10L-MO14	10	19.0	19.0	-	26.0	11.5	11.0	M14 x 1.5
	DCM-12L-MO16	12	22.0	22.0	-	27.0	13.0	12.0	M16 x 1.5
	DCM-15L-MO18	15	27.0	24.0	-	29.0	14.5	13.5	M18 x 1.5
	DCM-18L-MO22	18	32.0	27.0	-	30.0	15.5	14.0	M22 x 1.5
<b>PN 160</b>	DCM-22L-MO26	22	36.0	32.0	-	32.0	16.0	16.0	M26 x 1.5
	DCM-28L-MO33	28	41.0	41.0	38.0	34.0	19.0	17.5	M33 x 2.0
	DCM-35L-MO42	35	50.0	50.0	48.0	39.0	19.5	17.5	M42 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DCM-06S-MO12	6	17.0	17.0	-	27.0	11.5	12.0	M12 x 1.0
	DCM-08S-MO14	8	19.0	19.0	-	27.0	11.5	12.0	M14 x 1.5
	DCM-10S-MO16	10	22.0	22.0	-	29.0	13.0	12.5	M1 x 1.5
	DCM-12S-MO18	12	24.0	24.0	-	29.0	14.5	13.0	M18 x 1.5
<b>PN 400</b>	DCM-16S-MO22	16	30.0	27.0	-	33.0	15.5	15.0	M22 x 1.5
	DCM-20S-MO27	20	36.0	32.0	-	37.0	19.0	15.0	M27 x 2.0
	DCM-25S-MO33	25	46.0	41.0	38.0	41.0	19.0	17.0	M33 x 2.0
DCM-30S-MO42	30	50.0	50.0	48.0	45.0	19.5	18.5	M42 x 2.0	

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DCM-GM (BSP Parallel)

## Male Connector

### BSP Parallel Thread Type

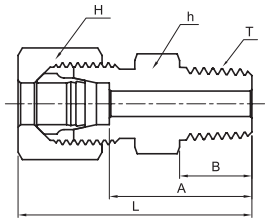
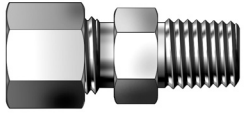


Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	B	T
<b>L Light PN 315</b>	DCM-06L-01GM	6	14.0	14.0	14.0	23.0	8.5	8.0	PF 1/8
	DCM-06L-02GM	6	14.0	19.0	18.0	25.0	10.0	12.0	PF 1/4
	DCM-06L-03GM	6	14.0	22.0	22.0	26.0	11.5	12.0	PF 3/8
	DCM-06L-04GM	6	14.0	27.0	26.0	27.0	12.0	14.0	PF 1/2
	DCM-08L-01GM	8	17.0	14.0	14.0	23.0	8.5	8.0	PF 1/8
	DCM-08L-02GM	8	17.0	19.0	18.0	25.0	10.0	12.0	PF 1/4
	DCM-08L-03GM	8	17.0	22.0	22.0	26.0	11.5	12.0	PF 3/8
	DCM-08L-04GM	8	17.0	27.0	26.0	27.0	12.0	14.0	PF 1/2
	DCM-10L-02GM	10	19.0	19.0	18.0	26.0	11.0	12.0	PF 1/4
	DCM-10L-03GM	10	19.0	22.0	22.0	27.0	12.5	12.0	PF 3/8
	DCM-10L-04GM	10	19.0	27.0	26.0	28.0	13.0	14.0	PF 1/2
	DCM-12L-02GM	12	22.0	19.0	18.0	27.0	12.0	12.0	PF 1/4
	DCM-12L-03GM	12	22.0	22.0	22.0	27.0	12.5	12.0	PF 3/8
	DCM-12L-04GM	12	22.0	27.0	26.0	28.0	13.0	14.0	PF 1/2
	DCM-12L-06GM	12	22.0	32.0	32.0	29.0	14.0	16.0	PF 3/4
	DCM-15L-03GM	15	27.0	24.0	22.0	29.0	13.5	12.0	PF 3/8
	DCM-15L-04GM	15	27.0	27.0	26.0	29.0	14.0	14.0	PF 1/2
	DCM-15L-06GM	15	27.0	32.0	32.0	30.0	15.0	16.0	PF 3/4
DCM-18L-03GM	18	32.0	27.0	22.0	29.5	14.0	12.0	PF 3/8	
DCM-18L-04GM	18	32.0	27.0	26.0	31.0	14.5	14.0	PF 1/2	
DCM-18L-06GM	18	32.0	32.0	32.0	30.0	14.5	16.0	PF 3/4	
<b>PN 160</b>	DCM-22L-04GM	22	36.0	32.0	26.0	33.0	16.5	14.0	PF 1/2
	DCM-22L-06GM	22	36.0	32.0	32.0	33.0	16.5	16.0	PF 3/4
	DCM-28L-06GM	28	41.0	41.0	32.0	34.0	17.5	16.0	PF 3/4
	DCM-28L-08GM	28	41.0	41.0	39.0	34.0	17.5	18.0	PF 1
	DCM-35L-08GM	35	50.0	46.0	39.0	39.0	17.5	18.0	PF 1
	DCM-35L-10GM	35	50.0	50.0	49.0	39.0	17.5	20.0	PF 1 1/4
	DCM-42L-12GM	42	60.0	55.0	55.0	42.0	19.0	22.0	PF 1 1/2
<b>S Heavy PB 630</b>	DCM-06S-02GM	6	17.0	19.0	18.0	28.0	13.0	12.0	PF 1/4
	DCM-06S-04GM	6	17.0	27.0	26.0	33.0	18.0	14.0	PF 1/2
	DCM-08S-02GM	8	19.0	19.0	18.0	30.0	15.0	12.0	PF 1/4
	DCM-08S-03GM	8	19.0	22.0	22.0	30.0	15.5	12.0	PF 3/8
	DCM-10S-02GM	10	22.0	19.0	18.0	31.0	14.5	12.0	PF 1/4
	DCM-10S-03GM	10	22.0	22.0	22.0	31.0	15.0	12.0	PF 3/8
	DCM-10S-04GM	10	22.0	27.0	26.0	34.0	17.5	14.0	PF 1/2
	DCM-12S-02GM	12	24.0	22.0	18.0	33.0	16.5	12.0	PF 1/4
	DCM-12S-03GM	12	24.0	22.0	22.0	33.0	17.0	12.0	PF 3/8
	DCM-12S-04GM	12	24.0	27.0	26.0	34.0	17.5	14.0	PF 1/2
<b>PB 400</b>	DCM-14S-03GM	14	27.0	24.0	22.0	36.0	18.5	12.0	PF 3/8
	DCM-14S-04GM	14	27.0	27.0	26.0	37.0	19.0	14.0	PF 1/2
	DCM-16S-03GM	16	30.0	27.0	22.0	36.0	18.0	12.0	PF 3/8
	DCM-16S-04GM	16	30.0	27.0	26.0	37.0	18.5	14.0	PF 1/2
	DCM-16S-06GM	16	30.0	32.0	32.0	39.0	20.5	16.0	PF 3/4
	DCM-20S-04GM	20	36.0	32.0	26.0	42.0	20.5	14.0	PF 1/2
	DCM-20S-06GM	20	36.0	32.0	32.0	42.0	20.5	16.0	PF 3/4
	DCM-25S-06GM	25	46.0	41.0	32.0	47.0	23.0	16.0	PF 3/4
DCM-25S-08GM	25	46.0	41.0	39.0	47.0	23.0	18.0	PF 1	
<b>PB 250</b>	DCM-30S-08GM	30	50.0	46.0	39.0	50.0	23.5	18.0	PF 1
	DCM-30S-10GM	30	50.0	50.0	49.0	50.0	23.5	20.0	PF 1 1/4
	DCM-38S-10GM	38	60.0	55.0	49.0	57.0	26.0	20.0	PF 1 1/4
DCM-38S-12GM	38	60.0	55.0	55.0	57.0	26.0	22.0	PF 1 1/2	

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DCM-R (BSP Tapered)

### Male Connector

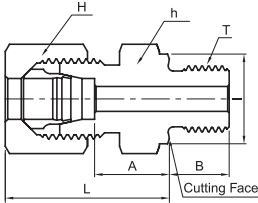
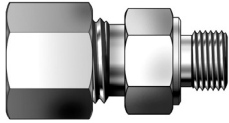


### BSP Tapered Thread Type

Series	Part Number	Tube O.D.	Dimension					
			H	h	L	A	B	T
<b>LL</b> <b>Very Light</b> <b>PN 100</b>	DCM-04LL-01R	4	10.0	11.0	26.0	16.0	8.0	PT 1/8
	DCM-06LL-01R	6	12.0	11.0	26.0	14.5	8.0	PT 1/8
	DCM-08LL-01R	8	14.0	12.0	28.0	16.5	8.0	PT 1/8
	DCM-08LL-02R	8	14.0	14.0	32.0	20.5	12.0	PT 1/4
	DCM-10LL-02R	10	17.0	14.0	32.0	20.5	12.0	PT 1/4
	DCM-12LL-02R	12	19.0	17.0	32.0	20.0	12.0	PT 1/4
	DCM-12LL-03R	12	19.0	17.0	32.0	20.0	12.0	PT 3/8
<b>L</b> <b>Light</b> <b>PN 315</b>	DCM-06L-01R	6	14.0	12.0	30.0	15.0	8.0	PT 1/8
	DCM-08L-02R	8	17.0	17.0	35.0	20.0	12.0	PT 1/4
	DCM-10L-02R	10	19.0	17.0	36.0	21.0	12.0	PT 1/4
	DCM-12L-02R	12	22.0	19.0	37.0	22.0	12.0	PT 1/4
	DCM-12L-03R	12	22.0	19.0	37.0	22.0	12.0	PT 3/8
	DCM-12L-04R	12	22.0	24.0	39.0	24.0	14.0	PT 1/2
	DCM-15L-03R	15	27.0	24.0	38.0	23.0	12.0	PT 3/8
DCM-15L-04R	15	27.0	24.0	40.0	25.0	14.0	PT 1/2	
DCM-18L-04R	18	32.0	27.0	41.0	25.5	14.0	PT 1/2	
<b>PN 160</b>	DCM-22L-06R	22	36.0	32.0	46.0	29.5	16.0	PT 3/4

## DCM-M (Metric Parallel)

### Male Connector

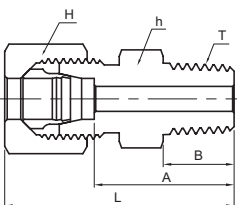


#### Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension							
			H	h	I	L	A	B	T	
<b>L Light PN 315</b>	DCM-06L-M10M	6	14.0	14.0	14.0	23.0	8.5	8.0	M10 x 1.0	
	DCM-08L-M12M	8	17.0	17.0	17.0	25.0	10.0	12.0	M12 x 1.5	
	DCM-08L-M18M	8	17.0	24.0	23.0	26.0	11.5	12.0	M18 x 1.5	
	DCM-10L-M14M	10	19.0	19.0	19.0	26.0	11.0	12.0	M14 x 1.5	
	DCM-10L-M16M	10	19.0	22.0	21.0	27.0	12.0	12.0	M16 x 1.5	
	DCM-10L-M18M	10	19.0	24.0	23.0	27.0	12.5	12.0	M18 x 1.5	
	DCM-10L-M22M	10	19.0	27.0	27.0	29.0	14.0	14.0	M22 x 1.5	
	DCM-12L-M14M	12	22.0	19.0	19.0	26.0	11.0	12.0	M14 x 1.5	
	DCM-12L-M16M	12	22.0	22.0	21.0	27.0	12.5	12.0	M16 x 1.5	
	DCM-12L-M18M	12	22.0	24.0	23.0	27.0	12.5	12.0	M18 x 1.5	
	DCM-12L-M22M	12	22.0	27.0	27.0	29.0	14.0	14.0	M22 x 1.5	
	DCM-15L-M16M	15	27.0	24.0	21.0	28.0	13.0	12.0	M16 x 1.5	
	DCM-15L-M18M	15	27.0	24.0	23.0	29.0	13.5	12.0	M18 x 1.5	
	DCM-15L-M22M	15	27.0	27.0	27.0	30.0	15.0	14.0	M22 x 1.5	
	DCM-18L-M18M	18	32.0	27.0	23.0	30.0	14.0	12.0	M18 x 1.5	
	DCM-18L-M22M	18	32.0	27.0	27.0	31.0	14.5	14.0	M22 x 1.5	
	<b>PN 160</b>	DCM-22L-M22M	22	36.0	32.0	27.0	33.0	16.5	14.0	M22 x 1.5
		DCM-22L-M26M	22	36.0	32.0	31.0	33.0	16.5	16.0	M26 x 1.5
DCM-28L-M33M		28	41.0	41.0	39.0	34.0	17.5	18.0	M33 x 2.0	
DCM-35L-M42M		35	50.0	50.0	49.0	39.0	17.5	20.0	M42 x 2.0	
<b>S Heavy PB 630</b>	DCM-42L-M48M	42	60.0	55.0	55.0	42.0	19.0	22.0	M48 x 2.0	
	DCM-06S-M12M	6	17.0	17.0	17.0	28.0	13.0	12.0	M12 x 1.5	
	DCM-08S-M14M	8	19.0	19.0	19.0	30.0	15.0	12.0	M14 x 1.5	
	DCM-10S-M16M	10	22.0	22.0	21.0	31.0	15.0	12.0	M16 x 1.5	
	DCM-12S-M18M	12	24.0	24.0	23.0	33.0	17.0	12.0	M18 x 1.5	
	DCM-12S-M22M	12	24.0	27.0	27.0	34.0	17.5	14.0	M22 x 1.5	
<b>PB 400</b>	DCM-14S-M20M	14	27.0	27.0	25.0	37.0	19.0	14.0	M20 x 1.5	
	DCM-16S-M18M	16	30.0	27.0	23.0	36.0	18.0	12.0	M18 x 1.5	
	DCM-16S-M22M	16	30.0	27.0	27.0	37.0	18.5	14.0	M22 x 1.5	
<b>PB 250</b>	DCM-20S-M27M	20	36.0	32.0	32.0	42.0	20.5	16.0	M27 x 2.0	
	DCM-25S-M33M	25	46.0	41.0	39.0	47.0	23.0	18.0	M33 x 2.0	
<b>PB 250</b>	DCM-30S-M42M	30	50.0	50.0	49.0	50.0	23.5	20.0	M42 x 2.0	
	DCM-38S-M48M	38	60.0	55.0	55.0	57.0	26.0	22.0	M48 x 2.0	

## DCM-MK (Metric Tapered)

### Male Connector

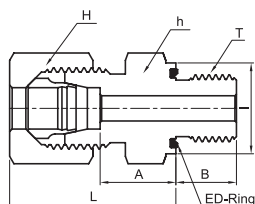
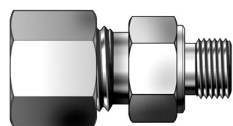


#### Metric Tapered Thread Type

Series	Part Number	Tube O.D.	Dimension						
			H	h	L	A	B	T	
<b>LL Very Light PN 100</b>	DCM-04LL-M06K	4	10	9	26	16	8	M6 x 1keg	
	DCM-04LL-M08K	4	10	10	26	16	8	M8 x 1keg	
	DCM-06LL-M10K	6	12	11	26	14.5	8	M10 x 1keg	
	DCM-08LL-M10K	8	14	12	28	16.5	8	M10 x 1keg	

## DCM-GED (BSP Parallel with ED-Ring)

### Male Connector with ED-Ring



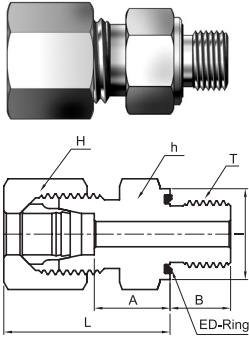
#### BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension							
			H	h	l	L	A	B	T	
<b>L Light PN 315</b>	DCM-06L-01GED	6	14.0	14.0	14.0	23.0	8.5	8.0	PF 1/8	
	DCM-06L-02GED	6	14.0	19.0	19.0	25.0	10.0	12.0	PF 1/4	
	DCM-08L-01GED	8	17.0	14.0	14.0	24.0	9.5	8.0	PF 1/8	
	DCM-08L-02GED	8	17.0	19.0	19.0	25.0	10.0	12.0	PF 1/4	
	DCM-08L-03GED	8	17.0	22.0	22.0	26.0	11.5	12.0	PF 3/8	
	DCM-10L-02GED	10	19.0	19.0	19.0	26.0	11.0	12.0	PF 1/4	
	DCM-10L-03GED	10	19.0	22.0	22.0	27.0	12.5	12.0	PF 3/8	
	DCM-10L-04GED	10	19.0	27.0	27.0	28.0	13.0	14.0	PF 1/2	
	DCM-12L-02GED	12	22.0	19.0	19.0	27.0	12.0	12.0	PF 1/4	
	DCM-12L-03GED	12	22.0	22.0	22.0	27.0	12.5	12.0	PF 3/8	
	DCM-12L-04GED	12	22.0	27.0	27.0	28.0	13.0	14.0	PF 1/2	
	DCM-15L-03GED	15	27.0	24.0	22.0	29.0	13.5	12.0	PF 3/8	
	DCM-15L-04GED	15	27.0	27.0	27.0	29.0	14.0	14.0	PF 1/2	
	DCM-18L-04GED	18	32.0	27.0	27.0	31.0	14.5	14.0	PF 1/2	
	DCM-18L-06GED	18	32.0	32.0	32.0	31.0	14.5	16.0	PF 3/4	
	<b>PN 160</b>	DCM-22L-06GED	22	36.0	32.0	32.0	33.0	16.5	16.0	PF 3/4
		DCM-28L-08GED	28	41.0	41.0	40.0	34.0	17.5	18.0	PF 1
		DCM-35L-10GED	35	50.0	50.0	50.0	39.0	17.5	20.0	PF 1 1/4
DCM-42L-12GED		42	60.0	55.0	55.0	42.0	19.0	22.0	PF 1 1/2	
<b>S Heavy PB 630</b>	DCM-06S-02GED	6	17.0	19.0	19.0	28.0	13.0	12.0	PF 1/4	
	DCM-08S-02GED	8	19.0	19.0	19.0	30.0	15.0	12.0	PF 1/4	
	DCM-08S-03GED	8	19.0	22.0	22.0	30.0	15.5	12.0	PF 3/8	
	DCM-10S-02GED	10	22.0	19.0	19.0	31.0	14.5	12.0	PF 1/4	
	DCM-10S-03GED	10	22.0	22.0	22.0	31.0	15.0	12.0	PF 3/8	
	DCM-10S-04GED	10	22.0	27.0	27.0	34.0	17.5	14.0	PF 1/2	
	DCM-12S-02GED	12	24.0	22.0	19.0	33.0	16.5	12.0	PF 1/4	
	DCM-12S-03GED	12	24.0	22.0	22.0	33.0	17.0	12.0	PF 3/8	
	DCM-12S-04GED	12	24.0	27.0	32.0	34.0	17.5	14.0	PF 1/2	
	DCM-14S-04GED	14	27.0	27.0	27.0	37.0	19.0	14.0	PF 1/2	
<b>PN 400</b>	DCM-16S-03GED	16	30.0	27.0	22.0	36.0	18.0	12.0	PF 3/8	
	DCM-16S-04GED	16	30.0	27.0	27.0	37.0	18.5	14.0	PF 1/2	
	DCM-16S-06GED	16	30.0	32.0	27.0	39.0	20.5	16.0	PF 3/4	
	DCM-20S-06GED	20	36.0	32.0	32.0	42.0	20.5	16.0	PF 3/4	
	DCM-25S-04GED	25	46.0	41.0	27.0	47.0	23.0	14.0	PF 1/2	
	DCM-25S-06GED	25	46.0	41.0	32.0	47.0	23.0	16.0	PF 3/4	
	DCM-25S-08GED	25	46.0	41.0	40.0	47.0	23.0	18.0	PF 1	
<b>PN 315</b>	DCM-30S-10GED	30	50.0	50.0	50.0	50.0	23.5	20.0	PF 1 1/4	
	DCM-38S-12GED	38	60.0	55.0	55.0	57.0	26.0	22.0	PF 1 1/2	

## DCM-MED (Metric Parallel with ED-Ring)

### Male Connector with ED-Ring

#### Metric Parallel Thread Type

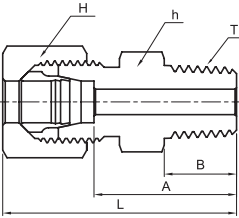
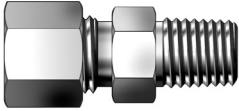


Series	Part Number	Tube O.D.	Dimension						
			H	h	I	L	A	B	T
<b>L Light PN315</b>	DCM-06L-M10ED	6	14.0	14.0	14.0	23.0	8.5	8.0	M10 x 1.0
	DCM-08L-M12ED	8	17.0	17.0	17.0	25.0	10.0	12.0	M12 x 1.5
	DCM-10L-M14ED	10	19.0	19.0	19.0	26.0	11.0	12.0	M14 x 1.5
	DCM-12L-M16ED	12	22.0	22.0	22.0	27.0	12.5	12.0	M16 x 1.5
	DCM-12L-M18ED	12	22.0	24.0	24.0	27.0	12.5	12.0	M18 x 1.5
	DCM-12L-M22ED	12	22.0	27.0	27.0	29.0	14.0	14.0	M22 x 1.5
	DCM-15L-M18ED	15	27.0	24.0	24.0	29.0	13.5	12.0	M18 x 1.5
	DCM-15L-M22ED	15	27.0	27.0	27.0	30.0	15.0	14.0	M22 x 1.5
	DCM-18L-M22ED	18	32.0	27.0	27.0	31.0	14.5	14.0	M22 x 1.5
<b>PN 160</b>	DCM-22L-M26ED	22	36.0	32.0	32.0	33.0	16.5	16.0	M26 x 1.5
	DCM-28L-M33ED	28	41.0	41.0	40.0	34.0	17.5	18.0	M33 x 2.0
	DCM-35L-M42ED	35	50.0	50.0	50.0	39.0	17.5	20.0	M42 x 2.0
	DCM-42L-M48ED	42	60.0	55.0	55.0	42.0	19.0	22.0	M48 x 2.0
<b>S Heavy PB 630</b>	DCM-06S-M12ED	6	17.0	17.0	17.0	28.0	13.0	12.0	M12 x 1.5
	DCM-08S-M14ED	8	19.0	19.0	19.0	30.0	15.0	12.0	M14 x 1.5
	DCM-10S-M16ED	10	22.0	22.0	22.0	31.0	15.0	12.0	M16 x 1.5
	DCM-12S-M18ED	12	24.0	24.0	24.0	33.0	17.0	12.0	M18 x 1.5
	DCM-14S-M20ED	14	27.0	27.0	26.0	37.0	19.0	14.0	M20 x 1.5
<b>PN 400</b>	DCM-16S-M22ED	16	30.0	27.0	27.0	37.0	18.5	14.0	M22 x 1.5
	DCM-20S-M27ED	20	36.0	32.0	32.0	42.0	20.5	16.0	M27 x 2.0
	DCM-25S-M33ED	25	46.0	41.0	40.0	47.0	23.0	18.0	M33 x 2.0
<b>PN 315</b>	DCM-30S-M42ED	30	50.0	50.0	50.0	50.0	23.5	20.0	M42 x 2.0
	DCM-38S-M48ED	38	60.0	55.0	55.0	57.0	26.0	22.0	M48 x 2.0



## DCM-N (NPT Thread)

### Male Connector

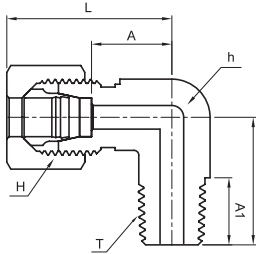
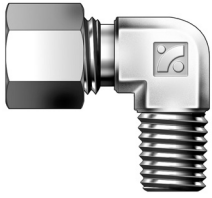


#### NPT Thread Type

Series	Part Number	Tube O.D.	Dimension					
			H	h	L	A	B	T
<b>LL</b>	DCM-04LL-01N	4	10.0	11.0	28.0	18.5	9.9	NPT 1/8
<b>Very Light</b>	DCM-06LL-01N	6	12.0	11.0	28.0	16.5	9.9	NPT 1/8
<b>PN 100</b>	DCM-08LL-01N	8	14.0	12.0	30.0	18.5	9.9	NPT 1/8
<b>L</b> <b>Light</b> <b>PN 315</b>	DCM-06L-01N	6	14.0	12.0	32.0	17.0	9.9	NPT 1/8
	DCM-06L-02N	6	14.0	17.0	38.0	23.0	14.2	NPT 1/4
	DCM-08L-02N	8	17.0	17.0	38.0	23.0	14.2	NPT 1/4
	DCM-10L-02N	10	19.0	17.0	39.0	24.0	14.2	NPT 1/4
	DCM-10L-03N	10	19.0	19.0	40.0	25.0	14.2	NPT 3/8
	DCM-12L-02N	12	22.0	19.0	40.0	25.0	14.2	NPT 1/4
	DCM-12L-03N	12	22.0	19.0	40.0	25.0	14.2	NPT 3/8
	DCM-12L-04N	12	22.0	22.0	45.0	30.0	19.1	NPT 1/2
	DCM-15L-04N	15	27.0	24.0	46.0	31.0	19.1	NPT 1/2
DCM-18L-04N	18	32.0	27.0	48.0	31.5	19.1	NPT 1/2	
<b>PN 160</b>	DCM-22L-06N	22	36.0	32.0	50.0	33.5	19.1	NPT 3/4
	DCM-28L-08N	28	41.0	41.0	56.0	39.5	23.9	NPT 1
	DCM-35L-10N	35	50.0	46.0	62.0	40.5	23.9	NPT 1 1/4
<b>S</b> <b>Heavy</b> <b>PN 630</b>	DCM-42L-12N	42	60.0	55.0	65.0	42.0	25.4	NPT 1 1/2
	DCM-06S-02N	6	17.0	17.0	43.0	28.0	14.2	NPT 1/4
	DCM-08S-02N	8	19.0	17.0	43.0	28.0	14.2	NPT 1/4
	DCM-10S-02N	10	22.0	19.0	44.0	27.5	14.2	NPT 1/4
	DCM-10S-03N	10	22.0	19.0	44.0	27.5	14.2	NPT 3/8
	DCM-12S-02N	12	24.0	22.0	46.0	29.5	14.2	NPT 1/4
	DCM-12S-03N	12	24.0	22.0	46.0	29.5	14.2	NPT 3/8
	DCM-12S-04N	12	24.0	22.0	51.0	34.5	19.1	NPT 1/2
DCM-14S-04N	14	27.0	24.0	54.0	36.0	19.1	NPT 1/2	
<b>PN 400</b>	DCM-16S-04N	16	30.0	27.0	54.0	35.5	19.1	NPT 1/2
	DCM-20S-06N	20	36.0	32.0	59.0	37.5	19.1	NPT 3/4
	DCM-25S-08N	25	46.0	41.0	69.0	45.0	23.9	NPT 1
<b>PN 315</b>	DCM-30S-10N	30	50.0	46.0	73.0	46.5	23.9	NPT 1 1/4
	DCM-38S-12N	38	60.0	55.0	80.0	49.0	25.4	NPT 1 1/2

# DME-R/MK (BSP Tapered/Metric Tapered)

## Male Elbow



### BSP Tapered Thread Type

Series	Part Number	Tube O.D.	Dimension						
			H	h	L	L1	A	A1	T
<b>LL</b> Very Light PN 100	DME-04LL-01R	4.0	10.0	9.0	21.0	17.0	11.0	10.0	PT 1/8
	DME-06LL-01R	6.0	12.0	9.0	21.0	17.0	9.5	10.0	PT 1/8
	DME-08LL-01R	8.0	14.0	12.0	23.0	20.0	11.5	10.0	PT 1/8
	DME-10LL-02R	10.0	17.0	14.0	24.0	23.0	12.5	14.0	PT 1/4
<b>L</b> Light PN 315	DME-12LL-02R	12.0	19.0	17.0	25.0	23.0	13.0	14.0	PT 1/4
	DME-06L-01R	6.0	14.0	12.0	27.0	20.0	12.0	10.0	PT 1/8
	DME-08L-02R	8.0	17.0	12.0	29.0	26.0	14.0	14.0	PT 1/4
	DME-10L-02R	10.0	19.0	14.0	30.0	27.0	15.0	14.0	PT 1/4
	DME-12L-03R	12.0	22.0	17.0	32.0	28.0	17.0	15.0	PT 3/8
	DME-15L-04R	15.0	27.0	19.0	36.0	34.0	21.0	19.0	PT 1/2
<b>S</b> Heavy PN 400	DME-18L-04R	18.0	32.0	24.0	40.0	36.0	23.5	19.0	PT 1/2
	DME-06S-02R	6.0	17.0	12.0	31.0	26.0	16.0	14.0	PT 1/4
	DME-08S-02R	8.0	19.0	14.0	32.0	27.0	17.0	14.0	PT 1/4
	DME-10S-03R	10.0	22.0	17.0	34.0	28.0	17.5	15.0	PT 3/8
	DME-12S-03R	12.0	24.0	17.0	38.0	28.0	21.5	15.0	PT 3/8
	DME-14S-04R	14.0	27.0	19.0	40.0	34.0	22.0	19.0	PT 1/2
	DME-16S-04R	16.0	30.0	24.0	43.0	36.0	24.5	19.0	PT 1/2

### Metric Tapered Thread Type

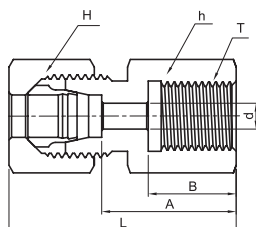
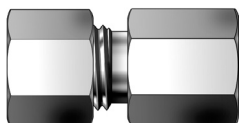
Series	Part Number	Tube O.D.	Dimension						
			H	h	L	L1	A	A1	T
<b>LL</b> Very Light PN 100	DME-04LL-M08K	4	10.0	9.0	21.0	17.0	11.0	8.0	M8 x 1.0Keg
	DME-06LL-M10K	6	12.0	9.0	21.0	17.0	9.5	8.0	M10 x 1.0Keg
	DME-08LL-M10K	8	14.0	12.0	23.0	20.0	11.5	8.0	M10 x 1.0Keg
<b>L</b> Light PN 315	DME-06L-M10K	6	14.0	12.0	27.0	20.0	12.0	8.0	M10 x 1.0Keg
	DME-08L-M12K	8	17.0	12.0	29.0	26.0	14.0	12.0	M12 x 1.5Keg
	DME-10L-M14K	10	19.0	14.0	30.0	27.0	15.0	12.0	M14 x 1.5Keg
	DME-12L-M16K	12	22.0	17.0	32.0	28.0	17.0	14.0	M16 x 1.5Keg
	DME-15L-M18K	15	27.0	19.0	36.0	34.0	21.0	14.0	M18 x 1.5Keg
	DME-18L-M22K	18	32.0	24.0	40.0	36.0	23.5	17.0	M22 x 1.5Keg
<b>S</b> Heavy PN 400	DME-06S-M12K	6	17.0	12.0	31.0	26.0	16.0	12.0	M12 x 1.5Keg
	DME-08S-M14K	8	19.0	14.0	32.0	27.0	17.0	12.0	M14 x 1.5Keg
	DME-10S-M16K	10	22.0	17.0	34.0	28.0	17.5	12.0	M16 x 1.5Keg
	DME-12S-M18K	12	24.0	17.0	38.0	28.0	21.5	12.0	M18 x 1.5Keg
	DME-14S-M20K	14	27.0	19.0	40.0	32.0	22.0	14.0	M20 x 1.5Keg
	DME-16S-M22K	16	30.0	24.0	43.0	32.0	24.5	17.0	M22 x 1.5Keg

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DCF-G/M (BSP Parallel/Metric Parallel)

## Female Connector

### BSP Parallel Thread Type



Series	Part Number	Tube O.D.	Dimension						
			d	H	h	L	A	B	T
<b>L Light PN 315</b>	DCF-06L-01G	6	4.0	14.0	14.0	34.0	19.0	12.0	PF 1/8
	DCF-08L-02G	8	6.0	17.0	19.0	39.0	24.0	17.0	PF 1/4
	DCF-08L-03G	8	6.0	17.0	24.0	40.0	25.0	17.0	PF 3/8
	DCF-08L-04G	8	6.0	17.0	27.0	44.0	29.0	20.0	PF 1/2
	DCF-10L-02G	10	8.0	19.0	19.0	40.0	25.0	17.0	PF 1/4
	DCF-10L-03G	10	8.0	19.0	24.0	41.0	26.0	17.0	PF 3/8
	DCF-10L-04G	10	8.0	19.0	27.0	45.0	30.0	20.0	PF 1/2
	DCF-12L-03G	12	10.0	22.0	24.0	41.0	26.0	17.0	PF 3/8
	DCF-12L-04G	12	10.0	22.0	27.0	45.0	30.0	20.0	PF 1/2
	DCF-15L-04G	15	12.0	27.0	27.0	46.0	31.0	20.0	PF 1/2
	DCF-18L-04G	18	15.0	32.0	27.0	47.0	30.5	20.0	PF 1/2
	<b>PB 160</b>	DCF-22L-06G	22	19.0	36.0	36.0	52.0	35.5	22.0
DCF-28L-08G		28	24.0	41.0	41.0	55.0	38.0	24.5	PF 1
DCF-35L-10G		35	30.0	50.0	55.0	63.0	41.0	26.5	PF 1 1/4
DCF-42L-12G		42	36.0	60.0	60.0	65.0	42.5	28.5	PF 1 1/2
<b>S Heavy PB 630</b>	DCF-06S-02G	6	4.0	17.0	19.0	41.0	26.0	17.0	PF 1/4
	DCF-08S-02G	8	5.0	19.0	19.0	41.0	26.0	17.0	PF 1/4
	DCF-10S-03G	10	7.0	22.0	24.0	43.0	26.5	17.0	PF 3/8
	DCF-12S-03G	12	8.0	24.0	24.0	43.0	26.5	17.0	PF 3/8
	DCF-14S-04G	14	10.0	27.0	30.0	50.0	32.0	20.0	PF 1/2
<b>PB 400</b>	DCF-16S-04G	16	12.0	30.0	30.0	50.0	31.5	20.0	PF 1/2
	DCF-20S-06G	20	16.0	36.0	36.0	56.0	34.5	22.0	PF 3/4
	DCF-25S-08G	25	20.0	46.0	41.0	62.0	37.5	24.5	PF 1
	DCF-30S-10G	30	25.0	50.0	55.0	69.0	42.0	26.5	PF 1 1/4
<b>PB 315</b>	DCF-38S-12G	38	32.0	60.0	60.0	74.0	43.5	28.5	PF 1 1/2

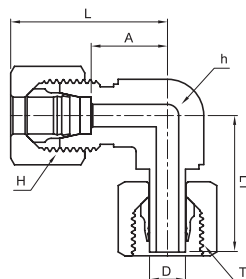
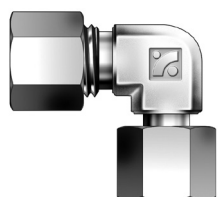
### Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension						
			d	H	h	L	A	B	T
<b>L Light PB 315</b>	DCF-06L-M10	6	4.0	14.0	14.0	34.0	19.5	12.5	M10 x 1.0
	DCF-08L-M12	8	6.0	17.0	17.0	39.0	24.0	17.0	M12 x 1.5
	DCF-10L-M14	10	8.0	19.0	19.0	40.0	25.0	17.0	M14 x 1.5
	DCF-12L-M16	12	10.0	22.0	22.0	41.0	26.0	17.0	M16 x 1.5
	DCF-15L-M18	15	12.0	27.0	24.0	43.0	28.0	17.0	M18 x 1.5
	DCF-18L-M22	18	15.0	32.0	30.0	46.0	29.5	19.0	M22 x 1.5
<b>PB 160</b>	DCF-22L-M26	22	19.0	36.0	32.0	51.0	34.5	21.0	M26 x 1.5
	DCF-28L-M33	28	24.0	41.0	41.0	54.0	37.5	24.0	M33 x 2.0
	DCF-35L-M42	35	30.0	50.0	55.0	62.0	40.5	26.0	M42 x 2.0
	DCF-42L-M48	42	36.0	60.0	60.0	65.0	42.0	28.0	M48 x 2.0
<b>S Heavy PB 630</b>	DCF-06S-M12	6	4.0	17.0	17.0	41.0	26.0	17.0	M12 x 1.5
	DCF-08S-M14	8	5.0	19.0	19.0	41.0	26.0	17.0	M14 x 1.5
	DCF-10S-M16	10	7.0	22.0	22.0	43.0	26.5	17.0	M16 x 1.5
	DCF-12S-M18	12	8.0	24.0	24.0	44.0	27.5	17.0	M18 x 1.5
	DCF-14S-M20	14	10.0	27.0	27.0	49.0	31.0	19.0	M20 x 1.5
<b>PB 400</b>	DCF-16S-M22	16	12.0	30.0	30.0	49.0	30.5	19.0	M22 x 1.5
	DCF-20S-M27	20	16.0	36.0	36.0	56.0	34.5	22.0	M27 x 2.0
	DCF-25S-M33	25	20.0	46.0	41.0	61.0	37.0	24.0	M33 x 2.0
	DCF-30S-M42	30	25.0	50.0	55.0	68.0	41.5	26.0	M42 x 2.0
<b>PB 315</b>	DCF-38S-M48	38	32.0	60.0	60.0	74.0	43.0	28.0	M48 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DAE

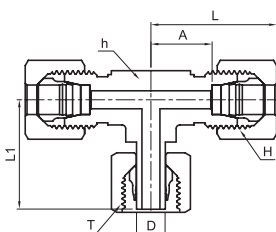
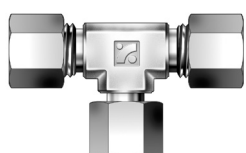
### Adjustable Elbow



Series	Part Number	Tube O.D.	Dimension						
			D	H	h	L	L1	A	T
<b>L Light</b> <b>PN 315</b>	DAE -06L	6	6	14.0	12.0	27.0	26.0	12.0	M12 x 1.5
	DAE -08L	8	8	17.0	12.0	29.0	27.5	14.0	M14 x 1.5
	DAE -10L	10	10	19.0	14.0	30.0	29.0	15.0	M16 x 1.5
	DAE -12L	12	12	22.0	17.0	32.0	29.5	17.0	M18 x 1.5
	DAE -15L	15	15	27.0	19.0	36.0	32.5	21.0	M22 x 1.5
	DAE -18L	18	18	32.0	24.0	40.0	35.5	23.5	M26 x 1.5
<b>PN 160</b>	DAE -22L	22	22	36.0	27.0	44.0	38.5	27.5	M30 x 2.0
	DAE -28L	28	28	41.0	36.0	47.0	41.5	30.5	M36 x 2.0
	DAE -35L	35	35	50.0	41.0	56.0	51.0	34.5	M45 x 2.0
	DAE -42L	42	42	60.0	50.0	63.0	56.0	40.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DAE -06S	6	6	17.0	12.0	31.0	27.0	16.0	M14 x 1.5
	DAE -08S	8	8	19.0	14.0	32.0	27.5	17.0	M16 x 1.5
	DAE -10S	10	10	22.0	17.0	34.0	30.0	17.5	M18 x 1.5
	DAE -12S	12	12	24.0	17.0	38.0	31.0	21.5	M20 x 1.5
	DAE -14S	14	14	27.0	19.0	40.0	35.0	22.0	M22 x 1.5
<b>PN 400</b>	DAE -16S	16	16	30.0	24.0	43.0	40.0	24.5	M24 x 1.5
	DAE -20S	20	20	36.0	27.0	48.0	44.5	26.5	M30 x 2.0
	DAE -25S	25	25	46.0	36.0	54.0	50.0	30.0	M36 x 2.0
	DAE -30S	30	30	50.0	41.0	62.0	55.0	35.5	M42 x 2.0
<b>PN 315</b>	DAE -38S	38	38	60.0	50.0	72.0	63.0	41.0	M52 x 2.0

## DABT

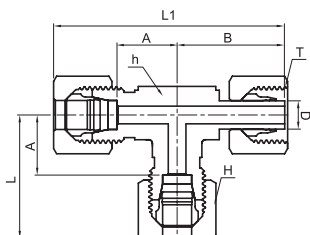
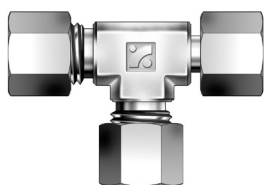
### Adjustable Branch Tee



Series	Part Number	Tube O.D.	Dimension						
			D	H	h	L	L1	A	T
<b>L Light</b> <b>PN 315</b>	DABT -06L	6	6	14.0	12.0	27.0	26.0	12.0	M12 x 1.5
	DABT -08L	8	8	17.0	12.0	29.0	27.5	14.0	M14 x 1.5
	DABT -10L	10	10	19.0	14.0	30.0	29.0	15.0	M16 x 1.5
	DABT -12L	12	12	22.0	17.0	32.0	29.5	17.0	M18 x 1.5
	DABT -15L	15	15	27.0	19.0	36.0	32.5	21.0	M22 x 1.5
	DABT -18L	18	18	32.0	24.0	40.0	35.5	23.5	M26 x 1.5
<b>PN 160</b>	DABT -22L	22	22	36.0	27.0	44.0	38.5	27.5	M30 x 2.0
	DABT -28L	28	28	41.0	36.0	47.0	41.5	30.5	M36 x 2.0
	DABT -35L	35	35	50.0	41.0	56.0	51.0	34.5	M45 x 2.0
	DABT -42L	42	42	60.0	50.0	63.0	56.0	40.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DABT -06S	6	6	17.0	12.0	31.0	27.0	16.0	M14 x 1.5
	DABT -08S	8	8	19.0	14.0	32.0	27.5	17.0	M16 x 1.5
	DABT -10S	10	10	22.0	17.0	34.0	30.0	17.5	M18 x 1.5
	DABT -12S	12	12	24.0	17.0	38.0	31.0	21.5	M20 x 1.5
	DABT -14S	14	14	27.0	19.0	40.0	35.0	22.0	M22 x 1.5
<b>PN 400</b>	DABT -16S	16	16	30.0	24.0	43.0	40.0	24.5	M24 x 1.5
	DABT -20S	20	20	36.0	27.0	48.0	44.5	26.5	M30 x 2.0
	DABT -25S	25	25	46.0	36.0	54.0	50.0	30.0	M36 x 2.0
	DABT -30S	30	30	50.0	41.0	62.0	55.0	35.5	M42 x 2.0
<b>PN 315</b>	DABT -38S	38	38	60.0	50.0	72.0	63.0	41.0	M52 x 2.0

## DART

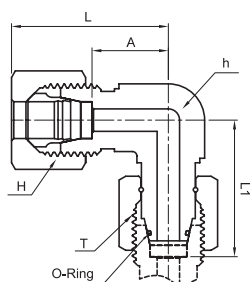
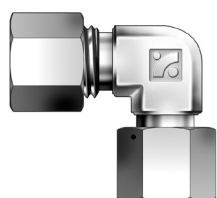
### Adjustable Run Tee



Series	Part Number	Tube O.D.	Dimension							
			D	H	h	L	L1	A	B	T
<b>L Light</b> <b>PN 315</b>	DART -06L	6	6	14.0	12.0	27.0	53.0	12.0	26.0	M12 x 1.5
	DART -08L	8	8	17.0	12.0	29.0	56.0	14.0	27.5	M14 x 1.5
	DART -10L	10	10	19.0	14.0	30.0	59.0	15.0	29.0	M16 x 1.5
	DART -12L	12	12	22.0	17.0	32.0	62.0	17.0	29.5	M18 x 1.5
	DART -15L	15	15	27.0	19.0	36.0	69.0	21.0	32.5	M22 x 1.5
	DART -18L	18	18	32.0	24.0	40.0	75.0	23.5	35.5	M26 x 1.5
<b>PN 160</b>	DART -22L	22	22	36.0	27.0	44.0	83.0	27.5	38.5	M30 x 2.0
	DART -28L	28	28	41.0	36.0	47.0	91.0	30.5	41.5	M36 x 2.0
	DART -35L	35	35	50.0	41.0	56.0	111.0	34.5	51.0	M45 x 2.0
	DART -42L	42	42	60.0	50.0	63.0	123.0	40.0	56.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DART -06S	6	6	17.0	12.0	31.0	58.0	16.0	27.0	M14 x 1.5
	DART -08S	8	8	19.0	14.0	32.0	61.0	17.0	27.5	M16 x 1.5
	DART -10S	10	10	22.0	17.0	34.0	66.0	17.5	30.0	M18 x 1.5
	DART -12S	12	12	24.0	17.0	38.0	71.0	21.5	31.0	M20 x 1.5
	DART -14S	14	14	27.0	19.0	40.0	75.0	22.0	35.0	M22 x 1.5
	DART -16S	16	16	30.0	24.0	43.0	79.0	24.5	40.0	M24 x 1.5
<b>PN 400</b>	DART -20S	20	20	36.0	27.0	48.0	93.0	26.5	44.5	M30 x 2.0
	DART -25S	25	25	46.0	36.0	54.0	105.0	30.0	50.0	M36 x 2.0
	DART -30S	30	30	50.0	41.0	62.0	119.0	35.5	55.0	M42 x 2.0
<b>PN 315</b>	DART -38S	38	38	60.0	50.0	72.0	138.0	41.0	63.0	M52 x 2.0

## DSE

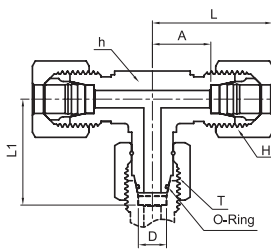
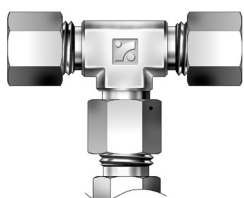
### Swivel Adjustable Elbow



Series	Part Number	Tube O.D.	Dimension					
			H	h	L	L1	A	T
<b>L Light</b> <b>PN 315</b>	DSE -06L	6	14.0	12.0	27.0	26.0	12.0	M12 x 1.5
	DSE -08L	8	17.0	12.0	29.0	27.5	14.0	M14 x 1.5
	DSE -10L	10	19.0	14.0	30.0	29.0	15.0	M16 x 1.5
	DSE -12L	12	22.0	17.0	32.0	29.5	17.0	M18 x 1.5
	DSE -15L	15	27.0	19.0	36.0	32.5	21.0	M22 x 1.5
	DSE -18L	18	32.0	24.0	40.0	35.5	23.5	M26 x 1.5
<b>PN 160</b>	DSE -22L	22	36.0	27.0	44.0	38.5	27.5	M30 x 2.0
	DSE -28L	28	41.0	36.0	47.0	41.5	30.5	M36 x 2.0
	DSE -35L	35	50.0	41.0	56.0	51.0	34.5	M45 x 2.0
	DSE -42L	42	60.0	50.0	63.0	56.0	40.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DSE -06S	6	17.0	12.0	31.0	27.0	16.0	M14 x 1.5
	DSE -08S	8	19.0	14.0	32.0	27.5	17.0	M16 x 1.5
	DSE -10S	10	22.0	17.0	34.0	30.0	17.5	M18 x 1.5
	DSE -12S	12	24.0	17.0	38.0	31.0	21.5	M20 x 1.5
	DSE -14S	14	27.0	19.0	40.0	35.0	22.0	M22 x 1.5
	DSE -16S	16	30.0	24.0	43.0	36.5	24.5	M24 x 1.5
<b>PN 400</b>	DSE -20S	20	36.0	27.0	48.0	44.5	26.5	M30 x 2.0
	DSE -25S	25	46.0	36.0	54.0	50.0	30.0	M36 x 2.0
	DSE -30S	30	50.0	41.0	62.0	55.0	35.5	M42 x 2.0
<b>PN 315</b>	DSE -38S	38	60.0	50.0	72.0	63.0	41.0	M52 x 2.0

## DSBT

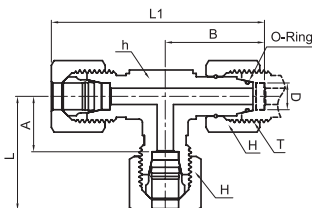
### Swivel Adjustable Branch Tee



Series	Part Number	Tube O.D.	Dimension					
			H	h	L	L1	A	T
<b>L Light</b> <b>PN 315</b>	DSBT-06L	6	14.0	12.0	27.0	26.0	12.0	M12 x 1.5
	DSBT-08L	8	17.0	12.0	29.0	27.5	14.0	M14 x 1.5
	DSBT-10L	10	19.0	14.0	30.0	29.0	15.0	M16 x 1.5
	DSBT-12L	12	22.0	17.0	32.0	29.5	17.0	M18 x 1.5
	DSBT-15L	15	27.0	19.0	36.0	32.5	21.0	M22 x 1.5
	DSBT-18L	18	32.0	24.0	40.0	35.5	23.5	M26 x 1.5
<b>PN 160</b>	DSBT-22L	22	36.0	27.0	44.0	38.5	27.5	M30 x 2.0
	DSBT-28L	28	41.0	36.0	47.0	41.5	30.5	M36 x 2.0
	DSBT-35L	35	50.0	41.0	56.0	51.0	34.5	M45 x 2.0
	DSBT-42L	42	60.0	50.0	63.0	56.0	40.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DSBT-06S	6	17.0	12.0	31.0	27.0	16.0	M14 x 1.5
	DSBT-08S	8	19.0	14.0	32.0	27.5	17.0	M16 x 1.5
	DSBT-10S	10	22.0	17.0	34.0	30.0	17.5	M18 x 1.5
	DSBT-12S	12	24.0	17.0	38.0	31.0	21.5	M20 x 1.5
<b>PN 400</b>	DSBT-14S	14	27.0	19.0	40.0	35.0	22.0	M22 x 1.5
	DSBT-16S	16	30.0	24.0	43.0	36.5	24.5	M24 x 1.5
	DSBT-20S	20	36.0	27.0	48.0	44.5	26.5	M30 x 2.0
	DSBT-25S	25	46.0	36.0	54.0	50.0	30.0	M36 x 2.0
<b>PN 315</b>	DSBT-30S	30	50.0	41.0	62.0	55.0	35.5	M42 x 2.0
	DSBT-38S	38	60.0	50.0	72.0	63.0	41.0	M52 x 2.0

## DSRT

### Swivel Adjustable Run Tee

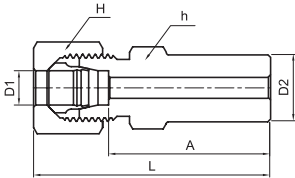
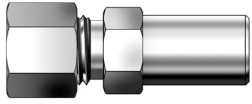


Series	Part Number	Tube O.D.	Dimension						
			H	h	L	L1	A	B	T
<b>L Light</b> <b>PN 315</b>	DSRT-06L	6	14.0	12.0	27.0	53.0	12.0	26.0	M12 x 1.5
	DSRT-08L	8	17.0	12.0	29.0	56.0	14.0	27.5	M14 x 1.5
	DSRT-10L	10	19.0	14.0	30.0	59.0	15.0	29.0	M16 x 1.5
	DSRT-12L	12	22.0	17.0	32.0	61.0	17.0	29.5	M18 x 1.5
	DSRT-15L	15	27.0	19.0	36.0	69.0	21.0	32.5	M22 x 1.5
	DSRT-18L	18	32.0	24.0	40.0	75.0	23.5	35.5	M26 x 1.5
<b>PN 160</b>	DSRT-22L	22	36.0	27.0	44.0	82.0	27.5	38.5	M30 x 2.0
	DSRT-28L	28	41.0	36.0	47.0	89.0	30.5	41.5	M36 x 2.0
	DSRT-35L	35	50.0	41.0	56.0	107.0	34.5	51.0	M45 x 2.0
	DSRT-42L	42	60.0	50.0	63.0	119.0	40.0	56.0	M52 x 2.0
<b>S Heavy</b> <b>PN 630</b>	DSRT-06S	6	17.0	12.0	31.0	58.0	16.0	27.0	M14 x 1.5
	DSRT-08S	8	19.0	14.0	32.0	59.0	17.0	27.5	M16 x 1.5
	DSRT-10S	10	22.0	17.0	34.0	64.0	17.5	30.0	M18 x 1.5
	DSRT-12S	12	24.0	17.0	38.0	69.0	21.5	31.0	M20 x 1.5
<b>PN 400</b>	DSRT-14S	14	27.0	19.0	40.0	75.0	22.0	35.0	M22 x 1.5
	DSRT-16S	16	30.0	24.0	43.0	79.0	24.5	36.5	M24 x 1.5
	DSRT-20S	20	36.0	27.0	48.0	93.0	26.5	44.5	M30 x 2.0
	DSRT-25S	25	46.0	36.0	54.0	104.0	30.0	50.0	M36 x 2.0
<b>PN 315</b>	DSRT-30S	30	50.0	41.0	62.0	117.0	35.5	55.0	M42 x 2.0
	DSRT-38S	38	60.0	50.0	72.0	135.0	41.0	63.0	M52 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DRD

## Reducer

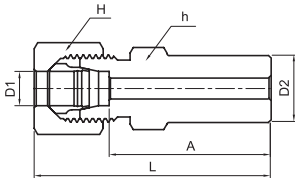
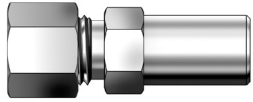


Series	Part Number	Tube O.D.		Dimension			
		D1	D2	H	h	L	A
<b>L Light PN 315</b>	DRD-06L-08L	6	8	14.0	12.0	40.0	25.5
	DRD-06L-10L	6	10	14.0	12.0	42.0	27.5
	DRD-08L-10L	8	10	17.0	14.0	43.0	27.5
	DRD-06L-12L	6	12	14.0	14.0	42.0	27.5
	DRD-08L-12L	8	12	17.0	14.0	43.0	27.5
	DRD-10L-12L	10	12	19.0	17.0	44.0	28.5
	DRD-06L-15L	6	15	14.0	19.0	44.0	29.0
	DRD-08L-15L	8	15	17.0	19.0	44.0	29.0
	DRD-10L-15L	10	15	19.0	19.0	45.0	30.0
	DRD-12L-15L	12	15	22.0	19.0	45.0	30.0
	DRD-06L-18L	6	18	14.0	19.0	46.0	31.0
	DRD-08L-18L	8	18	17.0	19.0	46.0	31.0
	DRD-10L-18L	10	18	19.0	19.0	47.0	32.0
	DRD-12L-18L	12	18	22.0	19.0	47.0	32.0
	DRD-15L-18L	15	18	27.0	22.0	49.0	33.0
<b>PN 160</b>	DRD-06L-22L	6	22	14.0	24.0	48.0	33.0
	DRD-08L-22L	8	22	17.0	24.0	48.0	33.0
	DRD-10L-22L	10	22	19.0	24.0	49.0	34.0
	DRD-12L-22L	12	22	22.0	24.0	49.0	34.0
	DRD-15L-22L	15	22	27.0	24.0	50.0	35.0
	DRD-18L-22L	18	22	32.0	27.0	51.0	34.5
	DRD-06L-28L	6	28	14.0	30.0	48.0	33.0
	DRD-08L-28L	8	28	17.0	30.0	48.0	33.0
	DRD-10L-28L	10	28	19.0	30.0	49.0	34.0
	DRD-12L-28L	12	28	22.0	30.0	49.0	34.0
	DRD-15L-28L	15	28	27.0	30.0	50.0	35.0
	DRD-18L-28L	18	28	32.0	30.0	51.0	36.0
	DRD-22L-28L	22	28	36.0	32.0	53.0	36.5
	DRD-06L-35L	6	35	14.0	36.0	53.0	38.5
	DRD-08L-35L	8	35	17.0	36.0	53.0	38.5
	DRD-10L-35L	10	35	19.0	36.0	55.0	39.5
	DRD-12L-35L	12	35	22.0	36.0	55.0	39.5
	DRD-15L-35L	15	35	27.0	36.0	56.0	40.5
	DRD-18L-35L	18	35	32.0	36.0	56.0	40.0
	DRD-22L-35L	22	35	36.0	36.0	58.0	42.0
	DRD-28L-35L	28	35	41.0	36.0	59.0	42.0
	DRD-06L-42L	6	42	14.0	46.0	56.0	41.0
	DRD-08L-42L	8	42	17.0	46.0	56.0	41.0
	DRD-10L-42L	10	42	19.0	46.0	58.0	42.0
	DRD-12L-42L	12	42	22.0	46.0	58.0	42.0
DRD-15L-42L	15	42	27.0	46.0	60.0	43.0	
DRD-18L-42L	18	42	32.0	46.0	60.0	42.5	
DRD-22L-42L	22	42	36.0	46.0	62.0	44.5	
DRD-28L-42L	28	42	41.0	46.0	64.0	44.5	
DRD-35L-42L	35	42	50.0	46.0	67.0	43.5	

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DRD

## Reducer



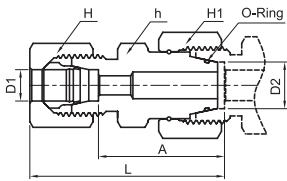
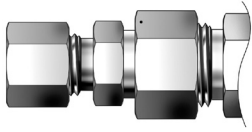
Series	Part Number	Tube O.D.		Dimension			
		D1	D2	H	h	L	A
<b>S Heavy PN 630</b>	DRD-06S-08S	6	8	17.0	14.0	43.0	28.0
	DRD-06S-10S	6	10	17.0	14.0	45.0	30.5
	DRD-08S-10S	8	10	19.0	17.0	45.0	30.5
	DRD-06S-12S	6	12	17.0	14.0	47.0	32.5
	DRD-08S-12S	8	12	19.0	17.0	47.0	32.5
	DRD-10S-12S	10	12	22.0	19.0	48.0	32.0
	DRD-06S-14S	6	14	17.0	17.0	51.0	36.5
	DRD-08S-14S	8	14	19.0	17.0	51.0	36.5
	DRD-10S-14S	10	14	22.0	19.0	52.0	36.0
	DRD-12S-14S	12	14	24.0	22.0	52.0	36.0
	DRD-06S-16S	6	16	17.0	17.0	53.0	38.5
	DRD-08S-16S	8	16	19.0	17.0	53.0	38.5
	DRD-10S-16S	10	16	22.0	19.0	54.0	38.0
	DRD-12S-16S	12	16	24.0	22.0	55.0	38.5
DRD-14S-16S	14	16	27.0	22.0	57.0	39.5	
<b>PN 400</b>	DRD-06S-20S	6	20	17.0	22.0	58.0	43.0
	DRD-08S-20S	8	20	19.0	22.0	58.0	43.0
	DRD-10S-20S	10	20	22.0	22.0	59.0	42.5
	DRD-12S-20S	12	20	24.0	22.0	59.0	42.5
	DRD-14S-20S	14	20	27.0	22.0	62.0	44.0
	DRD-16S-20S	16	20	30.0	24.0	62.0	43.5
	DRD-06S-25S	6	25	17.0	27.0	62.0	47.5
	DRD-08S-25S	8	25	19.0	27.0	62.0	47.5
	DRD-10S-25S	10	25	22.0	27.0	63.0	47.0
	DRD-12S-25S	12	25	24.0	27.0	63.0	47.0
	DRD-14S-25S	14	25	27.0	27.0	66.0	48.5
	DRD-16S-25S	16	25	30.0	27.0	66.0	48.0
	DRD-20S-25S	20	25	36.0	30.0	70.0	48.0
	DRD-06S-30S	6	30	17.0	32.0	67.0	52.0
DRD-08S-30S	8	30	19.0	32.0	67.0	52.0	
DRD-10S-30S	10	30	22.0	32.0	68.0	51.5	
DRD-12S-30S	12	30	24.0	32.0	68.0	51.5	
DRD-14S-30S	14	30	27.0	32.0	71.0	53.0	
DRD-16S-30S	16	30	30.0	32.0	71.0	52.5	
DRD-20S-30S	20	30	36.0	32.0	74.0	52.5	
DRD-25S-30S	25	30	46.0	36.0	77.0	53.0	
<b>PN 315</b>	DRD-06S-38S	6	38	17.0	41.0	72.0	57.0
	DRD-08S-38S	8	38	19.0	41.0	72.0	57.0
	DRD-10S-38S	10	38	22.0	41.0	73.0	56.5
	DRD-12S-38S	12	38	24.0	41.0	73.0	56.5
	DRD-14S-38S	14	38	27.0	41.0	76.0	58.0
	DRD-16S-38S	16	38	30.0	41.0	76.0	57.5
	DRD-20S-38S	20	38	36.0	41.0	79.0	57.5
	DRD-25S-38S	25	38	46.0	41.0	82.0	58.0
DRD-30S-38S	30	38	50.0	46.0	89.0	58.5	

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.



# DSRAP

## Swivel Reducing Adaptor

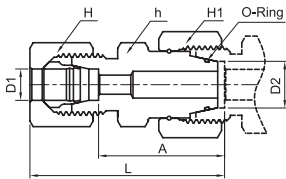
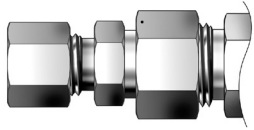


Series	Part Number	Tube O.D.		Dimension					
		D1	D2	H1	H	h	L	A	
<b>L Light PN 315</b>	DSRAP-06L-08L	6	8	17.0	14.0	14.0	39.0	24.5	
	DSRAP-06L-10L	6	10	19.0	14.0	17.0	39.5	24.5	
	DSRAP-08L-10L	8	10	19.0	17.0	17.0	39.5	24.5	
	DSRAP-06L-12L	6	12	22.0	14.0	17.0	40.0	25.0	
	DSRAP-08L-12L	8	12	22.0	17.0	17.0	40.0	25.0	
	DSRAP-10L-12L	10	12	22.0	19.0	17.0	41.0	26.0	
	DSRAP-06L-15L	6	15	27.0	14.0	22.0	42.0	27.5	
	DSRAP-08L-15L	8	15	27.0	17.0	22.0	42.0	27.5	
	DSRAP-10L-15L	10	15	27.0	19.0	22.0	43.0	28.5	
	DSRAP-12L-15L	12	15	27.0	22.0	22.0	43.0	28.5	
	DSRAP-06L-18L	6	18	32.0	14.0	25.0	43.0	28.0	
	DSRAP-08L-18L	8	18	32.0	17.0	25.0	43.0	28.0	
	DSRAP-10L-18L	10	18	32.0	19.0	25.0	44.5	29.5	
	DSRAP-12L-18L	12	18	32.0	22.0	25.0	44.5	29.5	
	DSRAP-15L-18L	15	18	32.0	27.0	25.0	45.5	30.5	
	<b>PN 160</b>	DSRAP-06L-22L	6	22	36.0	14.0	28.5	47.0	32.0
		DSRAP-08L-22L	8	22	36.0	17.0	28.5	47.0	32.0
		DSRAP-10L-22L	10	22	36.0	19.0	28.5	48.0	33.0
DSRAP-12L-22L		12	22	36.0	22.0	28.5	48.0	33.0	
DSRAP-15L-22L		15	22	36.0	27.0	28.5	49.0	34.0	
DSRAP-18L-22L		18	22	36.0	32.0	28.5	50.0	33.5	
DSRAP-06L-28L		6	28	41.0	14.0	36.0	49.0	34.0	
DSRAP-08L-28L		8	28	41.0	17.0	36.0	49.0	34.0	
DSRAP-10L-28L		10	28	41.0	19.0	36.0	50.0	35.0	
DSRAP-12L-28L		12	28	41.0	22.0	36.0	50.0	35.0	
DSRAP-15L-28L		15	28	41.0	27.0	36.0	51.0	36.0	
DSRAP-18L-28L		18	28	41.0	32.0	36.0	52.0	35.5	
DSRAP-22L-28L		22	28	41.0	36.0	36.0	54.0	37.5	
DSRAP-06L-35L		6	35	50.0	14.0	46.0	55.0	40.0	
DSRAP-08L-35L		8	35	50.0	17.0	46.0	55.0	40.0	
DSRAP-10L-35L		10	35	50.0	19.0	46.0	56.0	41.0	
DSRAP-12L-35L		12	35	50.0	22.0	46.0	56.0	41.0	
DSRAP-15L-35L		15	35	50.0	27.0	46.0	57.0	42.0	
DSRAP-18L-35L		18	35	50.0	32.0	46.0	58.0	41.5	
DSRAP-22L-35L		22	35	50.0	36.0	46.0	60.0	43.5	
DSRAP-28L-35L		28	35	50.0	41.0	46.0	60.0	43.5	
DSRAP-06L-42L		6	42	60.0	14.0	50.0	55.0	40.5	
DSRAP-08L-42L	8	42	60.0	17.0	50.0	55.0	40.5		
DSRAP-10L-42L	10	42	60.0	19.0	50.0	56.0	41.5		
DSRAP-12L-42L	12	42	60.0	22.0	50.0	56.0	41.5		
DSRAP-15L-42L	15	42	60.0	27.0	50.0	58.0	42.5		
DSRAP-18L-42L	18	42	60.0	32.0	50.0	58.0	42.0		
DSRAP-22L-42L	22	42	60.0	36.0	50.0	60.0	44.0		
DSRAP-28L-42L	28	42	60.0	41.0	50.0	61.0	44.0		
DSRAP-35L-42L	35	42	60.0	50.0	50.0	65.0	43.0		

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DSRAP

## Swivel Reducing Adaptor

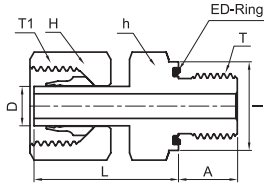
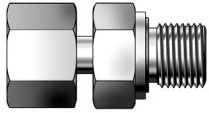


Series	Part Number	Tube O.D.		Dimension					
		D1	D2	H1	H	h	L	A	
<b>S Heavy PN 630</b>	DSRAP-06S-08S	6	8	19.0	17.0	17.0	44.0	28.0	
	DSRAP-06S-10S	6	10	22.0	17.0	17.0	44.0	29.5	
	DSRAP-08S-10S	8	10	22.0	19.0	17.0	44.0	29.5	
	DSRAP-06S-12S	6	12	24.0	17.0	19.0	45.0	30.0	
	DSRAP-08S-12S	8	12	24.0	19.0	19.0	45.0	30.0	
	DSRAP-10S-12S	10	12	24.0	22.0	19.0	46.0	29.5	
	DSRAP-06S-14S	6	14	27.0	17.0	22.0	47.5	33.0	
	DSRAP-08S-14S	8	14	27.0	19.0	22.0	47.5	33.0	
	DSRAP-10S-14S	10	14	27.0	22.0	22.0	48.5	32.5	
	DSRAP-12S-14S	12	14	27.0	24.0	22.0	48.5	32.5	
	DSRAP-06S-16S	6	16	30.0	17.0	24.0	50.0	35.0	
	DSRAP-08S-16S	8	16	30.0	19.0	24.0	50.0	35.0	
	DSRAP-10S-16S	10	16	30.0	22.0	24.0	51.0	34.5	
	DSRAP-12S-16S	12	16	30.0	24.0	24.0	51.0	34.5	
	DSRAP-14S-16S	14	16	30.0	27.0	24.0	54.0	36.0	
	<b>PN 400</b>	DSRAP-06S-20S	6	20	36.0	17.0	28.5	54.0	39.0
		DSRAP-08S-20S	8	20	36.0	19.0	28.5	54.0	39.0
		DSRAP-10S-20S	10	20	36.0	22.0	28.5	55.0	38.5
		DSRAP-12S-20S	12	20	36.0	24.0	28.5	55.0	38.5
		DSRAP-14S-20S	14	20	36.0	27.0	28.5	58.0	40.0
DSRAP-16S-20S		16	20	36.0	30.0	28.5	58.0	39.5	
DSRAP-06S-25S		6	25	46.0	17.0	36.0	58.0	43.5	
DSRAP-08S-25S		8	25	46.0	19.0	36.0	58.0	43.5	
DSRAP-10S-25S		10	25	46.0	22.0	36.0	59.0	43.0	
DSRAP-12S-25S		12	25	46.0	24.0	36.0	59.0	43.0	
DSRAP-14S-25S		14	25	46.0	27.0	36.0	62.0	44.5	
DSRAP-16S-25S		16	25	46.0	30.0	36.0	62.0	44.0	
DSRAP-20S-25S		20	25	46.0	36.0	36.0	66.0	44.0	
DSRAP-06S-30S		6	30	50.0	17.0	41.0	66.0	51.0	
DSRAP-08S-30S		8	30	50.0	19.0	41.0	66.0	51.0	
DSRAP-10S-30S	10	30	50.0	22.0	41.0	67.0	50.5		
DSRAP-12S-30S	12	30	50.0	24.0	41.0	67.0	50.5		
DSRAP-14S-30S	14	30	50.0	27.0	41.0	70.0	52.0		
DSRAP-16S-30S	16	30	50.0	30.0	41.0	70.0	51.5		
DSRAP-20S-30S	20	30	50.0	36.0	41.0	73.0	51.5		
DSRAP-25S-30S	25	30	50.0	46.0	41.0	76.0	52.0		
<b>PN 315</b>	DSRAP-06S-38S	6	38	60.0	17.0	50.0	70.5	56.0	
	DSRAP-08S-38S	8	38	60.0	19.0	50.0	70.5	56.0	
	DSRAP-10S-38S	10	38	60.0	22.0	50.0	71.5	55.5	
	DSRAP-12S-38S	12	38	60.0	24.0	50.0	71.5	55.5	
	DSRAP-14S-38S	14	38	60.0	27.0	50.0	74.5	57.0	
	DSRAP-16S-38S	16	38	60.0	30.0	50.0	74.5	56.5	
	DSRAP-20S-38S	20	38	60.0	36.0	50.0	78.5	56.5	
	DSRAP-25S-38S	25	38	60.0	46.0	50.0	81.5	57.0	
DSRAP-30S-38S	30	38	60.0	50.0	50.0	85.5	58.5		

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DAP-GED/MED (BSP Parallel/Metric Parallel with ED-Ring)

Adaptor



## BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	T	T1
<b>L Light PN315</b>	DAP-06L-01GED	6	14.0	14.0	14.0	24.5	8.0	PF 1/8	M12 x 1.5
	DAP-08L-02GED	8	17.0	19.0	19.0	29.5	12.0	PF 1/4	M14 x 1.5
	DAP-10L-02GED	10	19.0	19.0	19.0	27.5	12.0	PF 1/4	M16 x 1.5
	DAP-12L-03GED	12	22.0	22.0	22.0	34.0	12.0	PF 3/8	M18 x 1.5
	DAP-15L-04GED	15	27.0	27.0	27.0	32.0	14.0	PF 1/2	M22 x 1.5
	DAP-18L-04GED	18	32.0	27.0	27.0	31.5	14.0	PF 1/2	M26 x 1.5
<b>PN 160</b>	DAP-22L-06GED	22	36.0	32.0	32.0	32.5	16.0	PF 3/4	M30 x 2.0
	DAP-28L-08GED	28	41.0	41.0	40.0	35.0	18.0	PF 1	M36 x 2.0
	DAP-35L-10GED	35	50.0	50.0	50.0	42.5	20.0	PF 1 1/4	M45 x 2.0
	DAP-42L-12GED	42	60.0	55.0	55.0	46.5	22.0	PF 1 1/2	M52 x 2.0
<b>S Heavy PB 630</b>	DAP-06S-02GED	6	17.0	19.0	19.0	27.0	12.0	PF 1/4	M14 x 1.5
	DAP-08S-02GED	8	19.0	19.0	19.0	29.5	12.0	PF 1/4	M16 x 1.5
	DAP-10S-03GED	10	22.0	22.0	22.0	32.0	12.0	PF 3/8	M18 x 1.5
	DAP-12S-03GED	12	24.0	22.0	22.0	34.0	12.0	PF 3/8	M20 x 1.5
	DAP-12S-04GED	12	24.0	27.0	27.0	34.5	14.0	PF 1/2	M20 x 1.5
	DAP-14S-04GED	14	27.0	27.0	27.0	36.5	14.0	PF 1/2	M22 x 1.5
<b>PN 400</b>	DAP-16S-04GED	16	30.0	27.0	27.0	37.0	14.0	PF 1/2	M24 x 1.5
	DAP-16S-06GED	16	30.0	32.0	32.0	39.0	16.0	PF 3/4	M24 x 1.5
	DAP-20S-06GED	20	36.0	32.0	32.0	43.0	16.0	PF 3/4	M30 x 2.0
	DAP-25S-08GED	25	46.0	41.0	40.0	48.0	18.0	PF 1	M36 x 2.0
	DAP-30S-10GED	30	50.0	50.0	50.0	51.0	20.0	PF 1 1/4	M42 x 2.0
<b>PN 315</b>	DAP-38S-12GED	38	60.0	55.0	55.0	60.0	22.0	PF 1 1/2	M52 x 2.0

## Metric Parallel Thread Type

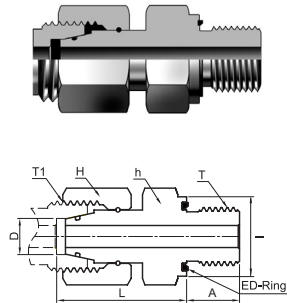
Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	l	L	A	T	T1
<b>L Light PN315</b>	DAP-06L-M10ED	6	14.0	14.0	14.0	24.5	8.0	M10 x 1.0	M12 x 1.5
	DAP-08L-M12ED	8	17.0	17.0	17.0	26.5	12.0	M12 x 1.5	M14 x 1.5
	DAP-10L-M14ED	10	19.0	19.0	19.0	27.5	12.0	M14 x 1.5	M16 x 1.5
	DAP-12L-M16ED	12	22.0	22.0	22.0	30.5	12.0	M16 x 1.5	M18 x 1.5
	DAP-15L-M18ED	15	27.0	24.0	24.0	31.5	14.0	M18 x 1.5	M22 x 1.5
	DAP-18L-M22ED	18	32.0	27.0	27.0	31.5	14.0	M22 x 1.5	M26 x 1.5
<b>PN 160</b>	DAP-22L-M26ED	22	36.0	32.0	32.0	32.5	16.0	M26 x 1.5	M30 x 2.0
	DAP-28L-M33ED	28	41.0	41.0	40.0	35.0	18.0	M33 x 2.0	M36 x 2.0
	DAP-35L-M42ED	35	50.0	50.0	50.0	42.5	20.0	M42 x 2.0	M45 x 2.0
	DAP-42L-M48ED	42	60.0	55.0	55.0	46.5	22.0	M48 x 2.0	M52 x 2.0
<b>S Heavy PB 630</b>	DAP-06S-M12ED	6	17.0	17.0	17.0	27.0	12.0	M12 x 1.5	M14 x 1.5
	DAP-08S-M14ED	8	19.0	19.0	19.0	29.5	12.0	M14 x 1.5	M16 x 1.5
	DAP-10S-M16ED	10	22.0	22.0	22.0	32.0	12.0	M16 x 1.5	M18 x 1.5
	DAP-12S-M18ED	12	24.0	24.0	24.0	34.0	12.0	M18 x 1.5	M20 x 1.5
	DAP-14S-M20ED	14	27.0	27.0	27.0	36.5	14.0	M20 x 1.5	M22 x 1.5
	<b>PN 400</b>	DAP-16S-M22ED	16	30.0	27.0	27.0	37.0	14.0	M22 x 1.5
DAP-20S-M27ED		20	36.0	32.0	32.0	43.0	16.0	M27 x 2.0	M30 x 2.0
DAP-25S-M33ED		25	46.0	41.0	40.0	48.0	18.0	M33 x 2.0	M36 x 2.0
DAP-30S-M42ED		30	50.0	50.0	50.0	51.0	20.0	M42 x 2.0	M42 x 2.0
<b>PN 315</b>	DAP-38S-M48ED	38	60.0	55.0	55.0	60.0	22.0	M48 x 2.0	M52 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DSAP-GED/MED (BSP Parallel/Metric Parallel with ED-Ring)

## Swivel Adaptor

### BSP Parallel Thread Type



Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	T	T1
<b>L Light</b>	DSAP-06L-01GED	6	14.0	14.0	14.0	24.5	8.0	PF 1/8	M12 x 1.5
	DSAP-08L-02GED	8	17.0	19.0	19.0	29.5	12.0	PF 1/4	M14 x 1.5
	DSAP-10L-02GED	10	19.0	19.0	19.0	27.5	12.0	PF 1/4	M16 x 1.5
	DSAP-12L-03GED	12	22.0	22.0	22.0	34.0	12.0	PF 3/8	M18 x 1.5
	DSAP-15L-04GED	15	27.0	27.0	27.0	32.0	14.0	PF 1/2	M22 x 1.5
	DSAP-18L-04GED	18	32.0	27.0	27.0	31.5	14.0	PF 1/2	M26 x 1.5
<b>PN 160</b>	DSAP-22L-06GED	22	36.0	32.0	32.0	32.5	16.0	PF 3/4	M30 x 2.0
	DSAP-28L-08GED	28	41.0	41.0	40.0	35.0	18.0	PF 1	M36 x 2.0
	DSAP-35L-10GED	35	50.0	50.0	50.0	42.5	20.0	PF 1 1/4	M45 x 2.0
	DSAP-42L-12GED	42	60.0	55.0	55.0	46.5	22.0	PF 1 1/2	M52 x 2.0
<b>S Heavy</b>	DSAP-06S-02GED	6	17.0	19.0	19.0	27.0	12.0	PF 1/4	M14 x 1.5
	DSAP-08S-02GED	8	19.0	19.0	19.0	29.5	12.0	PF 1/4	M16 x 1.5
	DSAP-10S-03GED	10	22.0	22.0	22.0	32.0	12.0	PF 3/8	M18 x 1.5
	DSAP-12S-03GED	12	24.0	22.0	22.0	34.0	12.0	PF 3/8	M20 x 1.5
	DSAP-14S-04GED	14	27.0	27.0	27.0	36.5	14.0	PF 1/2	M22 x 1.5
<b>PN 400</b>	DSAP-16S-04GED	16	30.0	27.0	27.0	37.0	14.0	PF 1/2	M24 x 1.5
	DSAP-20S-06GED	20	36.0	32.0	32.0	43.0	16.0	PF 3/4	M30 x 2.0
	DSAP-25S-08GED	25	46.0	41.0	40.0	48.0	18.0	PF 1	M36 x 2.0
	DSAP-30S-10GED	30	50.0	50.0	50.0	51.0	20.0	PF 1 1/4	M42 x 2.0
<b>PN 315</b>	DSAP-38S-12GED	38	60.0	55.0	55.0	60.0	22.0	PF 1 1/2	M52 x 2.0

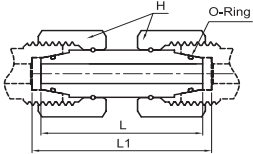
### Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension						
			H	h	l	L	A	T	T1
<b>L Light</b>	DSAP-06L-M10ED	6	14.0	14.0	14.0	24.5	8.0	M10 x 1.0	M12 x 1.5
	DSAP-08L-M12ED	8	17.0	19.0	17.0	26.5	12.0	M12 x 1.5	M14 x 1.5
	DSAP-10L-M14ED	10	19.0	19.0	19.0	27.5	12.0	M14 x 1.5	M16 x 1.5
	DSAP-12L-M16ED	12	22.0	22.0	22.0	30.5	12.0	M16 x 1.5	M18 x 1.5
	DSAP-15L-M18ED	15	27.0	24.0	24.0	31.5	12.0	M18 x 1.5	M22 x 1.5
	DSAP-18L-M22ED	18	32.0	27.0	27.0	31.5	14.0	M22 x 1.5	M26 x 1.5
<b>PN 160</b>	DSAP-22L-M26ED	22	36.0	32.0	32.0	32.5	16.0	M26 x 1.5	M30 x 2.0
	DSAP-28L-M33ED	28	41.0	41.0	40.0	35.0	18.0	M33 x 2.0	M36 x 2.0
	DSAP-35L-M42ED	35	50.0	50.0	50.0	42.5	20.0	M42 x 2.0	M45 x 2.0
	DSAP-42L-M48ED	42	60.0	55.0	55.0	46.5	22.0	M48 x 2.0	M52 x 2.0
<b>S Heavy</b>	DSAP-06S-M12ED	6	17.0	17.0	17.0	27.0	12.0	M12 x 1.5	M14 x 1.5
	DSAP-08S-M14ED	8	19.0	19.0	19.0	29.5	12.0	M14 x 1.5	M16 x 1.5
	DSAP-10S-M16ED	10	22.0	22.0	22.0	32.0	12.0	M16 x 1.5	M18 x 1.5
	DSAP-12S-M18ED	12	24.0	24.0	24.0	34.0	12.0	M18 x 1.5	M20 x 1.5
	DSAP-14S-M20ED	14	27.0	27.0	26.0	36.5	14.0	M20 x 1.5	M22 x 1.5
<b>PN 400</b>	DSAP-16S-M22ED	16	30.0	27.0	27.0	37.0	14.0	M22 x 1.5	M24 x 1.5
	DSAP-20S-M27ED	20	36.0	32.0	32.0	43.0	16.0	M27 x 2.0	M30 x 2.0
	DSAP-25S-M33ED	25	46.0	41.0	40.0	48.0	18.0	M33 x 2.0	M36 x 2.0
	DSAP-30S-M42ED	30	50.0	50.0	50.0	51.0	20.0	M42 x 2.0	M45 x 2.0
<b>PN 315</b>	DSAP-38S-M48ED	38	60.0	55.0	55.0	60.0	22.0	M48 x 2.0	M52 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

# DSLU

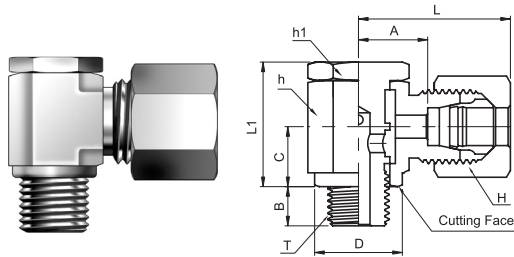
## Swivel Union



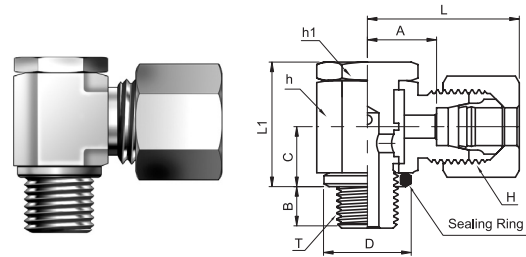
Series	Part Number	Tube O.D.	Dimension		
			H	L	L1
<b>L</b>	DSLU-06L	6	17.0	34.0	36.0
<b>Light</b>	DSLU-08L	8	17.0	34.0	36.0
<b>PN500</b>	DSLU-10L	10	19.0	36.0	37.0
<b>PB 400</b>	DSLU-12L	12	22.0	36.0	37.0
	DSLU-15L	15	27.0	39.0	40.0
	DSLU-18L	18	32.0	40.5	42.5
<b>PB 250</b>	DSLU-22L	22	36.0	45.0	47.0
	DSLU-28L	28	46.0	47.0	49.0
	DSLU-35L	35	50.0	53.0	58.0
	DSLU-42L	42	60.0	53.0	59.0
<b>S</b>	DSLU-06S	6	17.0	37.0	39.0
<b>Heavy</b>	DSLU-08S	8	19.0	37.0	39.0
<b>PB 800</b>	DSLU-10S	10	22.0	41.0	43.0
<b>PN 630</b>	DSLU-12S	12	24.0	43.0	44.0
	DSLU-14S	14	27.0	45.0	48.0
	DSLU-16S	16	30.0	46.0	50.0
<b>PN 400</b>	DSLU-20S	20	36.0	55.0	60.0
	DSLU-25S	25	46.0	58.0	66.0
	DSLU-30S	30	50.0	62.0	73.0
	DSLU-38S	38	60.0	67.0	83.0

## DBE-G/M (BSP Parallel/Metric Parallel)

### Banjo Elbow



For Tube O.D. up to 15mm



For Tube O.D. 16mm and larger

### BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension									
			D	H	h	h1	L	L1	A	B	C	T
<b>L Light PB 250</b>	DBE-06L-01G	6	14.0	14.0	14.0	14.0	25.0	21.0	10.5	6.0	10.0	PF 1/8
	DBE-08L-02G	8	18.0	17.0	19.0	19.0	28.0	27.0	13.0	9.0	13.0	PF 1/4
	DBE-10L-02G	10	18.0	19.0	19.0	19.0	29.0	27.0	14.0	9.0	13.0	PF 1/4
	DBE-12L-03G	12	22.0	22.0	22.0	22.0	30.0	32.0	15.5	9.0	15.0	PF 3/8
	DBE-15L-04G	15	26.0	27.0	27.0	27.0	34.0	37.5	19.0	11.0	18.0	PF 1/2
<b>PB 160</b>	DBE-18L-04G	18	26.0	32.0	30.0	27.0	37.0	44.0	20.5	11.0	21.5	PF 1/2
	DBE-22L-06G	22	32.0	36.0	36.0	32.0	42.0	49.0	25.5	13.0	24.0	PF 3/4
<b>S Heavy PB 250</b>	DBE-06S-02G	6	18.0	17.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	PF 1/4
	DBE-08S-02G	8	18.0	19.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	PF 1/4
	DBE-10S-03G	10	22.0	22.0	22.0	22.0	32.0	32.0	16.0	9.0	15.0	PF 3/8
	DBE-12S-03G	12	22.0	24.0	24.0	24.0	33.0	37.0	17.0	9.0	18.0	PF 3/8
	DBE-14S-04G	14	26.0	27.0	27.0	27.0	38.0	37.0	20.0	11.0	18.0	PF 1/2
<b>PB 160</b>	DBE-16S-04G	16	26.0	30.0	30.0	27.0	40.0	44.0	21.5	11.0	21.5	PF 1/2
	DBE-20S-06G	20	32.0	36.0	36.0	32.0	46.0	49.0	24.5	13.0	24.0	PF 3/4

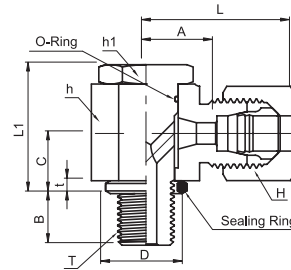
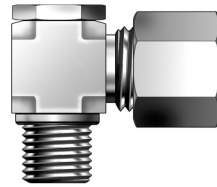
### Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension									
			D	H	h	h1	L	L1	A	B	C	T
<b>L Light PB 250</b>	DBE-06L-M10	6	14.0	14.0	14.0	14.0	25.0	21.5	10.5	6.0	10.0	M10 x 1.0
	DBE-08L-M12	8	17.0	17.0	17.0	17.0	27.0	25.0	12.0	9.0	12.0	M12 x 1.5
	DBE-10L-M14	10	19.0	19.0	19.0	19.0	29.0	27.0	14.0	9.0	13.0	M14 x 1.5
	DBE-12L-M16	12	21.0	22.0	22.0	22.0	30.0	32.0	15.5	9.0	15.0	M16 x 1.5
	DBE-15L-M18	15	23.0	27.0	24.0	24.0	33.0	37.5	17.5	9.0	18.0	M18 x 1.5
<b>PB 160</b>	DBE-18L-M22	18	27.0	32.0	30.0	27.0	37.0	44.0	20.5	11.0	21.5	M22 x 1.5
	DBE-22L-M26	22	31.0	36.0	36.0	32.0	42.0	49.0	25.5	13.0	24.0	M26 x 1.5
<b>S Heavy PB 250</b>	DBE-06S-M12	6	17.0	17.0	17.0	17.0	29.0	25.0	14.0	9.0	12.0	M12 x 1.5
	DBE-08S-M14	8	19.0	19.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	M14 x 1.5
	DBE-10S-M16	10	21.0	22.0	22.0	22.0	32.0	32.0	16.0	9.0	15.0	M16 x 1.5
	DBE-12S-M18	12	23.0	24.0	24.0	24.0	33.0	37.0	17.0	9.0	18.0	M18 x 1.5
	DBE-14S-M20	14	25.0	27.0	27.0	27.0	38.0	37.0	20.0	11.0	18.0	M20 x 1.5
<b>PB 160</b>	DBE-16S-M22	16	27.0	30.0	30.0	27.0	40.0	44.0	21.5	11.0	21.5	M22 x 1.5
	DBE-20S-M27	20	32.0	36.0	36.0	32.0	46.0	49.0	24.5	13.0	24.0	M27 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DHBE-G/M (BSP Parallel/Metric Parallel)

### High Pressure Banjo Elbow



#### BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension										
			D	H	h	h1	L	L1	A	B	C	t	T
<b>L Light PB 315</b>	DHBE-06L-01G	6	14.0	14.0	17.0	17.0	27.0	24.0	12.0	8.0	10.5	2.5	PF 1/8
	DHBE-08L-02G	8	18.0	17.0	22.0	19.0	29.0	30.0	14.5	12.0	14.0	3.0	PF 1/4
	DHBE-10L-02G	10	18.0	19.0	22.0	19.0	30.0	30.0	15.5	12.0	14.0	3.0	PF 1/4
	DHBE-12L-03G	12	22.0	22.0	27.0	24.0	33.0	36.0	18.0	12.0	16.5	3.0	PF 3/8
	DHBE-15L-04G	15	26.0	27.0	32.0	30.0	37.0	45.0	21.5	14.0	21.5	4.5	PF 1/2
	DHBE-18L-04G	18	26.0	32.0	32.0	30.0	37.0	45.0	21.0	14.0	21.5	4.5	PF 1/2
<b>PB 160</b>	DHBE-22L-06G	22	32.0	36.0	41.0	36.0	44.0	53.0	27.5	16.0	24.0	3.5	PF 3/4
	DHBE-28L-08G	28	39.0	41.0	50.0	46.0	49.0	66.0	32.0	18.0	30.5	3.5	PF 1
	DHBE-35L-10G	35	49.0	50.0	60.0	55.0	58.0	76.0	36.0	20.0	35.5	3.5	PF 1 1/4
	DHBE-42L-12G	42	55.0	60.0	70.0	60.0	63.0	87.0	40.5	22.0	40.5	3.5	PF 1 1/2
<b>S Heavy PB 400</b>	DHBE-06S-02G	6	18.0	17.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	PF 1/4
	DHBE-08S-02G	8	18.0	19.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	PF 1/4
	DHBE-10S-03G	10	22.0	22.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	PF 3/8
	DHBE-12S-03G	12	22.0	24.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	PF 3/8
	DHBE-16S-04G	16	26.0	30.0	32.0	30.0	40.0	45.0	22.0	14.0	21.5	4.5	PF 1/2
<b>PB 250</b>	DHBE-20S-06G	20	32.0	36.0	41.0	36.0	48.0	53.0	26.5	16.0	24.0	3.5	PF 3/4
	DHBE-25S-08G	25	39.0	46.0	50.0	46.0	56.0	66.0	31.5	18.0	30.5	3.5	PF 1
	DHBE-30S-10G	30	49.0	50.0	60.0	55.0	64.0	76.0	37.0	20.0	34.5	3.5	PF 1 1/4
	DHBE-38S-12G	38	55.0	60.0	70.0	60.0	72.0	87.0	41.5	22.0	40.5	3.5	PF 1 1/2

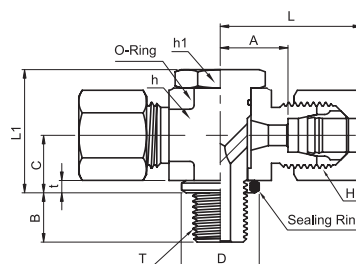
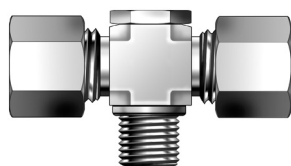
#### Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension										
			D	H	h	h1	L	L1	A	B	C	t	T
<b>L Light PB 315</b>	DHBE-06L-M10	6	14.0	14.0	17.0	17.0	27.0	24.0	12.0	8.0	10.5	2.5	M10 x 1.0
	DHBE-08L-M12	8	17.0	17.0	22.0	19.0	29.0	30.0	14.5	12.0	14.0	3.0	M12 x 1.5
	DHBE-10L-M14	10	19.0	19.0	22.0	19.0	30.0	30.0	15.5	12.0	14.0	3.0	M14 x 1.5
	DHBE-12L-M16	12	21.0	22.0	27.0	24.0	33.0	36.0	18.0	12.0	16.5	3.0	M16 x 1.5
	DHBE-15L-M18	15	23.0	27.0	30.0	27.0	36.0	39.5	20.5	12.0	18.5	3.0	M18 x 1.5
	DHBE-18L-M22	18	27.0	32.0	32.0	30.0	37.0	45.0	21.0	14.0	21.5	4.5	M22 x 1.5
<b>PB 160</b>	DHBE-22L-M26	22	31.0	36.0	41.0	36.0	44.0	53.0	27.5	16.0	24.0	3.5	M26 x 1.5
	DHBE-28L-M33	28	39.0	41.0	50.0	46.0	49.0	66.0	32.0	18.0	30.5	3.5	M33 x 2.0
	DHBE-35L-M42	35	49.0	50.0	60.0	55.0	58.0	76.0	36.0	20.0	35.5	3.5	M42 x 2.0
	DHBE-42L-M48	42	55.0	60.0	70.0	60.0	63.0	87.0	40.5	22.0	40.5	3.5	M48 x 2.0
<b>S Heavy PB 400</b>	DHBE-06S-M12	6	17.0	17.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	M12 x 1.5
	DHBE-08S-M14	8	19.0	19.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	M14 x 1.5
	DHBE-10S-M16	10	21.0	22.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	M16 x 1.5
	DHBE-12S-M18	12	23.0	24.0	30.0	27.0	36.0	39.5	20.0	12.0	18.5	3.0	M18 x 1.5
	DHBE-16S-M22	16	27.0	30.0	32.0	30.0	40.0	45.0	22.0	14.0	21.5	4.5	M22 x 1.5
<b>PB 160</b>	DHBE-20S-M27	20	32.0	36.0	41.0	36.0	48.0	53.0	26.5	16.0	24.0	3.5	M27 x 2.0
	DHBE-25S-M33	25	39.0	46.0	50.0	46.0	56.0	66.0	31.5	18.0	30.5	3.5	M33 x 2.0
	DHBE-30S-M42	30	49.0	50.0	60.0	55.0	64.0	76.0	37.0	20.0	35.5	3.5	M42 x 2.0
	DHBE-38S-M48	38	55.0	60.0	70.0	60.0	72.0	87.0	41.5	22.0	40.5	3.5	M48 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DHBT-G/M (BSP Parallel/Metric Parallel)

### High Pressure Banjo Tee



#### BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension										
			D	H	h	h1	L	L1	A	B	C	t	T
<b>L Light PB 315</b>	DHBT-06L-01G	6	14.0	14.0	17.0	17.0	27.0	24.0	12.0	8.0	10.5	2.5	PF 1/8
	DHBT-08L-02G	8	18.0	17.0	22.0	19.0	29.0	30.0	14.5	12.0	14.0	3.0	PF 1/4
	DHBT-10L-02G	10	18.0	19.0	22.0	19.0	30.0	30.0	15.5	12.0	14.0	3.0	PF 1/4
	DHBT-12L-03G	12	22.0	22.0	27.0	24.0	33.0	36.0	18.0	12.0	16.5	3.0	PF 3/8
	DHBT-15L-04G	15	26.0	27.0	32.0	30.0	37.0	45.0	21.5	14.0	21.5	4.5	PF 1/2
	DHBT-18L-04G	18	26.0	32.0	32.0	30.0	37.0	45.0	21.0	14.0	21.5	4.5	PF 1/2
<b>PB 160</b>	DHBT-22L-06G	22	32.0	36.0	41.0	36.0	44.0	53.0	27.5	16.0	24.0	3.5	PF 3/4
	DHBT-28L-08G	28	39.0	41.0	50.0	46.0	49.0	66.0	32.0	18.0	30.5	3.5	PF 1
	DHBT-35L-10G	35	49.0	50.0	60.0	55.0	58.0	76.0	36.0	20.0	35.5	3.5	PF 1 1/4
	DHBT-42L-12G	42	55.0	60.0	70.0	60.0	63.0	87.0	40.5	22.0	40.5	3.5	PF 1 1/2
<b>S Heavy PB 400</b>	DHBT-06S-02G	6	18.0	17.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	PF 1/4
	DHBT-08S-02G	8	18.0	19.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	PF 1/4
	DHBT-10S-03G	10	22.0	22.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	PF 3/8
	DHBT-12S-03G	12	22.0	24.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	PF 3/8
	DHBT-16S-04G	16	26.0	30.0	32.0	30.0	40.0	45.0	22.0	14.0	21.5	4.5	PF 1/2
<b>PB 250</b>	DHBT-20S-06G	20	32.0	36.0	41.0	36.0	48.0	53.0	26.5	16.0	24.0	3.5	PF 3/4
	DHBT-25S-08G	25	39.0	46.0	50.0	46.0	56.0	66.0	31.5	18.0	30.5	3.5	PF 1
	DHBT-30S-10G	30	49.0	50.0	60.0	55.0	64.0	76.0	37.0	20.0	35.5	3.5	PF 1 1/4
	DHBT-38S-12G	38	55.0	60.0	70.0	60.0	72.0	87.0	41.5	22.0	40.5	3.5	PF 1 1/2

#### Metric Parallel Thread Type

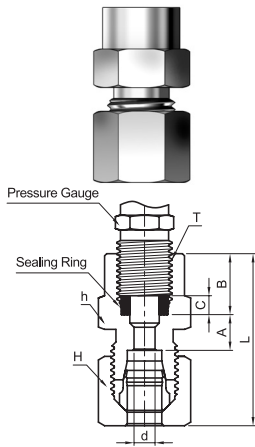
Series	Part Number	Tube O.D.	Dimension										
			D	H	h	h1	L	L1	A	B	C	t	T
<b>L Light PB 315</b>	DHBT-06L-M10	6	14.0	14.0	17.0	17.0	27.0	24.0	12.0	8.0	10.5	2.5	M10 x 1.0
	DHBT-08L-M12	8	17.0	17.0	22.0	19.0	29.0	30.0	14.5	12.0	14.0	3.0	M12 x 1.5
	DHBT-10L-M14	10	19.0	19.0	22.0	19.0	30.0	30.0	15.5	12.0	14.0	3.0	M14 x 1.5
	DHBT-12L-M16	12	21.0	22.0	27.0	24.0	33.0	36.0	18.0	12.0	16.5	3.0	M16 x 1.5
	DHBT-15L-M18	15	23.0	27.0	30.0	27.0	36.0	39.5	20.5	12.0	18.5	3.0	M18 x 1.5
	DHBT-18L-M22	18	27.0	32.0	32.0	30.0	37.0	45.0	21.0	14.0	21.5	4.5	M22 x 1.5
<b>PB 160</b>	DHBT-22L-M26	22	31.0	36.0	41.0	36.0	44.0	53.0	27.5	16.0	24.0	3.5	M26 x 1.5
	DHBT-28L-M33	28	39.0	41.0	50.0	46.0	49.0	66.0	32.0	18.0	30.5	3.5	M33 x 2.0
	DHBT-35L-M42	35	49.0	50.0	60.0	55.0	58.0	76.0	36.0	20.0	35.5	3.5	M42 x 2.0
	DHBT-42L-M48	42	55.0	60.0	70.0	60.0	63.0	87.0	40.5	22.0	40.5	3.5	M48 x 2.0
<b>S Heavy PB 400</b>	DHBT-06S-M12	6	17.0	17.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	M12 x 1.5
	DHBT-08S-M14	8	19.0	19.0	22.0	19.0	31.0	30.0	16.5	12.0	14.0	3.0	M14 x 1.5
	DHBT-10S-M16	10	21.0	22.0	27.0	24.0	35.0	36.0	18.5	12.0	16.5	3.0	M16 x 1.5
	DHBT-12S-M18	12	23.0	24.0	30.0	27.0	36.0	39.5	20.0	12.0	18.5	3.0	M18 x 1.5
	DHBT-16S-M22	16	27.0	30.0	32.0	30.0	40.0	45.0	22.0	14.0	21.5	4.5	M22 x 1.5
<b>PB 250</b>	DHBT-20S-M27	20	32.0	36.0	41.0	36.0	48.0	53.0	26.5	16.0	24.0	3.5	M27 x 2.0
	DHBT-25S-M33	25	39.0	46.0	50.0	46.0	56.0	66.0	31.5	18.0	30.5	3.5	M33 x 2.0
	DHBT-30S-M42	30	49.0	50.0	60.0	55.0	64.0	76.0	37.0	20.0	35.5	3.5	M42 x 2.0
	DHBT-38S-M48	38	55.0	60.0	70.0	60.0	72.0	87.0	41.5	22.0	40.5	3.5	M48 x 2.0

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.



## DFGC-G (BSP Parallel)

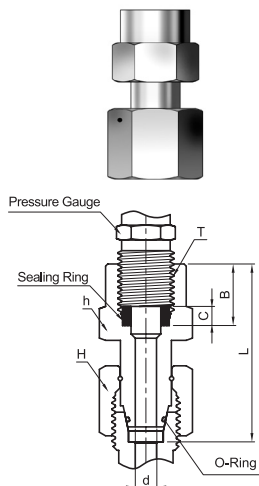
### Pressure Gauge Connector



Series	Part Number	Tube O.D.	Dimension							
			d	H	h	L	A	B	C	T
<b>L Light</b> <b>PN 315</b>	DFGC-06L-02G	6	2.5	14.0	19.0	37.0	7.5	14.5	4.5	PF 1/4
	DFGC-08L-02G	8	5.5	17.0	19.0	37.0	7.5	14.5	4.5	PF 1/4
	DFGC-10L-02G	10	5.5	19.0	19.0	38.0	8.5	14.5	4.5	PF 1/4
	DFGC-12L-02G	12	5.5	22.0	19.0	38.0	8.5	14.5	4.5	PF 1/4
<b>S Heavy</b> <b>PN 630</b>	DFGC-06S-04G	6	3.5	17.0	27.0	46.0	11.0	20.0	5.0	PF 1/2
	DFGC-08S-04G	8	3.5	19.0	27.0	46.0	11.0	20.0	5.0	PF 1/2
	DFGC-10S-04G	10	7.0	22.0	27.0	47.0	10.5	20.0	5.0	PF 1/2
	DFGC-12S-04G	12	7.0	24.0	27.0	47.0	10.5	20.0	5.0	PF 1/2

## DSGC-G (BSP Parallel)

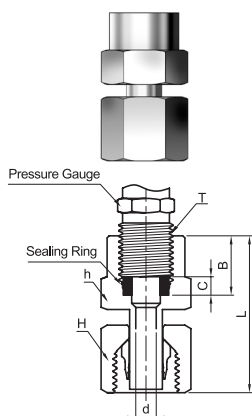
### Pressure Gauge Swivel Connector



Series	Part Number	Tube O.D.	Dimension						
			d	H	h	L	B	C	T
<b>L Light</b> <b>PN 315</b>	DSGC-06L-02G	6	2.5	14.0	19.0	35.5	14.5	4.5	PF 1/4
	DSGC-08L-02G	8	4.0	17.0	19.0	35.5	14.5	4.5	PF 1/4
	DSGC-10L-02G	10	5.5	19.0	19.0	36.0	14.5	4.5	PF 1/4
	DSGC-12L-02G	12	5.5	22.0	19.0	36.0	14.5	4.5	PF 1/4
<b>S Heavy</b> <b>PN 630</b>	DSGC-06S-02G	6	2.5	17.0	19.0	35.5	14.5	4.5	PF 1/4
	DSGC-08S-02G	8	4.0	19.0	19.0	35.5	14.5	4.5	PF 1/4
	DSGC-10S-02G	10	6.0	22.0	19.0	36.0	14.5	4.5	PF 1/4
	DSGC-12S-02G	12	7.0	24.0	19.0	39.0	14.5	4.5	PF 1/4
	DSGC-06S-04G	6	2.5	17.0	27.0	42.5	20.0	5.0	PF 1/2
	DSGC-08S-04G	8	4.0	19.0	27.0	43.0	20.0	5.0	PF 1/2
	DSGC-10S-04G	10	6.0	22.0	27.0	43.5	20.0	5.0	PF 1/2
	DSGC-12S-04G	12	7.0	24.0	27.0	45.0	20.0	5.0	PF 1/2

## DGAP-G (BSP Parallel)

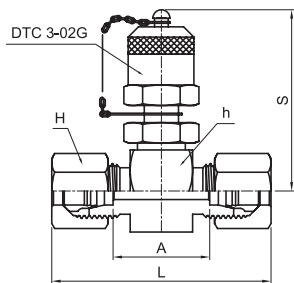
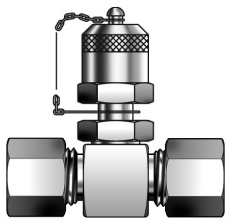
### Gauge Adaptor



Series	Part Number	Tube O.D.	Dimension						
			d	H	h	L	B	C	T
<b>L Light</b> <b>PN 315</b>	DGAP-06L-02G	6	3.5	14.0	19.0	38.0	14.5	4.5	PF 1/4
	DGAP-08L-02G	8	5.5	17.0	19.0	38.0	14.5	4.5	PF 1/4
	DGAP-10L-02G	10	7.5	19.0	19.0	39.5	14.5	4.5	PF 1/4
	DGAP-12L-02G	12	9.0	22.0	19.0	40.5	14.5	4.5	PF 1/4
<b>S Heavy</b> <b>PN 630</b>	DGAP-06S-04G	6	3.5	17.0	27.0	45.0	20.0	5.0	PF 1/2
	DGAP-08S-04G	8	4.5	19.0	27.0	45.0	20.0	5.0	PF 1/2
	DGAP-10S-04G	10	6.5	22.0	27.0	47.0	20.0	5.0	PF 1/2
	DGAP-12S-04G	12	7.5	24.0	27.0	47.5	20.0	5.0	PF 1/2

## DTPC

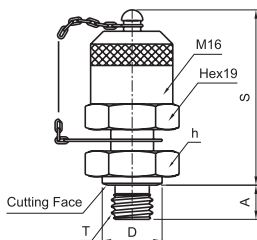
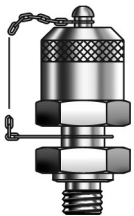
### Tee Test Point Connector



Series	Part Number	Tube O.D.	Dimension				
			H	h	L	A	S
<b>L Light PN 315</b>	DTPC 3-06L	6	14	24	50	20.5	50
	DTPC 3-08L	8	17	24	50	20.5	50
	DTPC 3-10L	10	19	24	52	22.5	50
	DTPC 3-12L	12	22	24	52	22.5	50
	DTPC 3-15L	15	27	30	55	24.5	53
	DTPC 3-18L	18	32	32	56	23.5	54
<b>PB 160</b>	DTPC 3-22L	22	36	36	60	27.5	56
	DTPC 3-28L	28	41	41	61	27.5	58
	DTPC 3-35L	35	50	46	69	25.5	61
	DTPC 3-42L	42	60	55	70	24.5	65
<b>S Heavy PN 630</b>	DTPC 3-06S	6	17	24	54	24.5	50
	DTPC 3-08S	8	19	24	54	24.5	50
	DTPC 3-10S	10	22	24	56	23.5	50
	DTPC 3-12S	12	24	24	56	23.5	50
	DTPC 3-14S	14	27	27	62	26.5	51
<b>PN 400</b>	DTPC 3-16S	16	30	30	62	25.5	53
	DTPC 3-20S	20	36	36	69	25.5	56
	DTPC 3-25S	25	46	41	75	26.5	58
	DTPC 3-30S	30	50	46	81	27.5	61
<b>PN 315</b>	DTPC 3-38S	38	60	55	90	29	65

## DTC

### Test Coupling

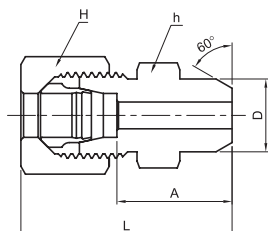
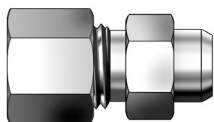


Series	Part Number	Dimension				
		h	D	S	A	T
<b>PB 630</b>	DTC 3-01G	17	14	41	8	PF 1/8
	DTC 3-02G	19	18	41	10	PF 1/4
	DTC 3-03G	22	22	41	12	PF 3/8
	DTC 3-04G	27	26	41	14	PF 1/2
	DTC 3-M10	17	14	41	8	M10 x 1.0
	DTC 3-M12	17	17	41	12	M12 x 1.5
	DTC 3-M14	19	19	41	12	M14 x 1.5
	DTC 3-M16	22	21	41	12	M16 x 1.5

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DWC

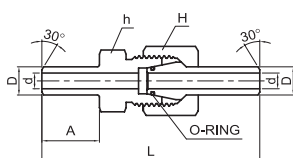
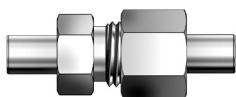
### Welding Connector



Series	Part Number	Tube O.D.	Dimension				
			D	H	h	L	A
<b>L Light PN 315</b>	DWC - 06L	6	10	14	12	29	14
	DWC - 08L	8	12	17	14	31	16
	DWC - 10L	10	14	19	17	33	18
	DWC - 12L	12	16	22	19	33	18
	DWC - 15L	15	19	27	22	37	22
	DWC - 18L	18	22	32	27	40	23.5
<b>PB 160</b>	DWC - 22L	22	27	36	32	45	28.5
	DWC - 28L	28	32	41	41	47	30.5
	DWC - 35L	35	40	50	46	54	32.5
	DWC - 42L	42	46	60	55	58	35
<b>S Heavy PN 630</b>	DWC - 06S	6	11	17	14	34	19
	DWC - 08S	8	13	19	17	36	21
	DWC - 10S	10	15	22	19	39	22.5
	DWC - 12S	12	17	24	22	41	24.5
	DWC - 14S	14	19	27	24	45	27
<b>PN 400</b>	DWC - 16S	16	21	30	27	45	26.5
	DWC - 20S	20	26	36	32	51	29.5
	DWC - 25S	25	31	46	41	56	32
	DWC - 30S	30	36	50	46	62	35.5
<b>PN 315</b>	DWC - 38S	38	44	60	55	69	38

## DAWC

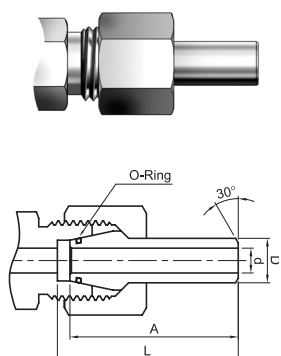
### Welding Connector with DWN



Series S MAX. Pressure	Part Number	Tube O.D.	Dimension				
			d	H	h	L	A
<b>PB248</b>	DAWC-10 x 1.0		8				
<b>PB357</b>	DAWC-10 x 1.5	10	7	22	19	58	10
<b>PB458</b>	DAWC-10 x 2.0		6				
<b>PB303</b>	DAWC-12 x 1.5		9				
<b>PB391</b>	DAWC-12 x 2.0	12	8	24	22	65	15
<b>PB474</b>	DAWC-12 x 2.5		7				
<b>PB234</b>	DAWC-16 x 1.5		13				
<b>PB303</b>	DAWC-16 x 2.0		12				
<b>PB370</b>	DAWC-16 x 2.5	16	11	30	27	74.5	16.5
<b>PB433</b>	DAWC-16 x 3.0		10				
<b>PB249</b>	DAWC-20 x 2.0		16				
<b>PB305</b>	DAWC-20 x 2.5		15				
<b>PB357</b>	DAWC-20 x 3.0	20	14	36	32	84	19
<b>PB458</b>	DAWC-20 x 4.0		12				
<b>PB292</b>	DAWC-25 x 3.0		19				
<b>PB378</b>	DAWC-25 x 4.0	25	17	46	41	94.5	19.5
<b>PB458</b>	DAWC-25 x 5.0		15				
<b>PB248</b>	DAWC-30 x 3.0		24				
<b>PB321</b>	DAWC-30 x 4.0		22				
<b>PB391</b>	DAWC-30 x 5.0	30	20	50	46	102	23
<b>PB460</b>	DAWC-30 x 6.0		18				
<b>PB260</b>	DAWC-38 x 4.0		30				
<b>PB318</b>	DAWC-38 x 5.0		28				
<b>PB373</b>	DAWC-38 x 6.0	38	26	60	55	111	23
<b>PB427</b>	DAWC-38 x 7.0		24				

## DWN

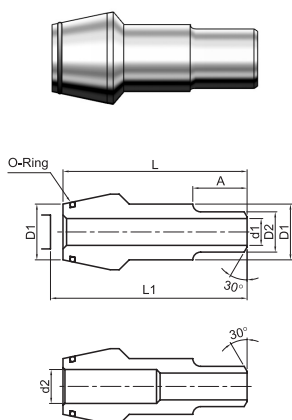
### Welding Nipple



Pressure Rating		Part Number	Tube O.D.		Dimension		
Fittings	DWN and Tube		D	d	L	A	
<b>PN630</b>	PB 248	DWN-10 x 1.0		8			
	PB 357	DWN-10 x 1.5	10	7	35.5	33	
	PB 458	DWN-10 x 2.0		6			
<b>PN630</b>	PB 303	DWN-12 x 1.5		9			
	PB 391	DWN-12 x 2.0	12	8	35.5	33	
	PB 474	DWN-12 x 2.5		7			
<b>PN400</b>	PB 234	DWN-16 x 1.5		13			
	PB 303	DWN-16 x 2.0	16	12	42.5	39	
	PB 370	DWN-16 x 2.5		11			
	PB 433	DWN-16 x 3.0		10			
<b>PN400</b>	PB 249	DWN-20 x 2.0		16			
	PB 303	DWN-20 x 2.5	20	15	47.5	43.5	
	PB 357	DWN-20 x 3.0		14			
	PB 458	DWN-20 x 4.0		12			
<b>PN400</b>	PB 292	DWN-25 x 3.0		19			
	PB 378	DWN-25 x 4.0	25	17	55	49.5	
	PB 458	DWN-25 x 5.0		15			
<b>PN400</b>	PB 248	DWN-30 x 3.0		24			
	PB 321	DWN-30 x 4.0	30	22	58.5	51.5	
	PB 391	DWN-30 x 5.0		20			
	PB 460	DWN-30 x 6.0		18			
<b>PN315</b>	PB 260	DWN-38 x 4.0		30			
	PB 318	DWN-38 x 5.0	38	28	66	56.5	
	PB 373	DWN-38 x 6.0		26			
	PB 427	DWN-38 x 7.0		24			

## DRWN

### Reducing Welding

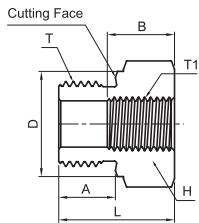
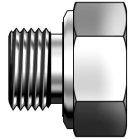


Pressure Rating		Part Number	Tube O.D.		Dimension				
Fittings	DWN and Tube		D1	D2	d1	d2	L1	L	A
<b>PN630</b>	PB 526	DRWN-10- 6 x 1.5	10	6	3	5	37.5	35	12
	PB 526	DRWN-10- 8 x 2.0	10	8	4	-	37.5	35	12
	PB 526	DRWN-12- 8 x 2.0	12	8	4	6	37.5	35	14
	PB 357	DRWN-12-10 x 1.5	12	10	7	-	37.5	35	14
<b>PN400</b>	PB 474	DRWN-16-12 x 2.5	16	12	7	-	46.5	43	15
	PB 474	DRWN-20-12 x 2.5	20	12	7	-	51.5	47.5	15
	PB 433	DRWN-20-16 x 3.0	20	16	10	-	53.5	49.5	17
	PB 433	DRWN-25-16 x 3.0	25	16	10	-	56.5	51	17
	PB 458	DRWN-25-20 x 4.0	25	20	12	-	59.5	54	20
	PB 303	DRWN-30-16 x 2.0	30	16	12	-	67	60	17
	PB 303	DRWN-30-20 x 2.5	30	20	15	-	70	63	20
	PB 292	DRWN-30-25 x 3.0	30	25	19	-	70	63	20
<b>PN315</b>	PB 303	DRWN-38-16 x 2.0	38	16	12	-	79	69.5	17
	PB 303	DRWN-38-20 x 2.5	38	20	15	-	82	72.5	20
	PB 292	DRWN-38-25 x 3.0	38	25	19	-	82	72.5	20
	PB 321	DRWN-38-30 x 4.0	38	30	22	-	82	72.5	20

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DMFC

### Male Female Connector

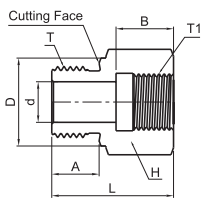
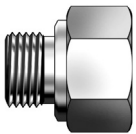


#### BSP Parallel Thread Type

Series	Part Number	Dimension						
		H	D	L	A	B	T	T1
<b>PB 630</b>	DMFC-03G-01G	22	22	22.5	12	8	PF 3/8	PF 1/8
<b>PB 630</b>	DMFC-04G-01G	27	26	24	14	8	PF 1/2	PF 1/8
<b>PB 400</b>	DMFC-04G-02G	27	26	24	14	12	PF 1/2	PF 1/4
<b>PB 400</b>	DMFC-06G-02G	32	32	26	16	12	PF 3/4	PF 1/4
	DMFC-06G-03G	32	32	26	16	12	PF 3/4	PF 3/8
<b>PB 400</b>	DMFC-08G-02G	41	39	29	18	12	PF1	PF 1/4
	DMFC-08G-03G	41	39	29	18	12	PF1	PF 3/8
	DMFC-08G-04G	41	39	29	18	14	PF1	PF 1/2
<b>PB 250</b>	DMFC-10G-04G	50	49	32	20	14	PF 1 1/4	PF 1/2
	DMFC-10G-06G	50	49	32	20	16	PF 1 1/4	PF 3/4
<b>PB 250</b>	DMFC-12G-04G	55	55	36	22	14	PF 1 1/2	PF 1/2
	DMFC-12G-06G	55	55	36	22	16	PF 1 1/2	PF 3/4
	DMFC-12G-08G	55	55	36	22	18	PF 1 1/2	PF1

## DMFG

### Male Female Gauge Connector



#### BSP Parallel Thread Type

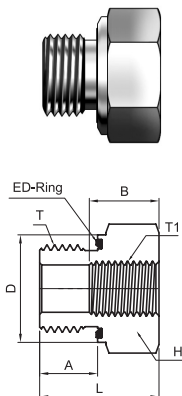
Series	Part Number	Dimension							
		H	d	D	L	A	B	T	T1
<b>PB 630</b>	DMFG-01G-02G	19	4	14	31	8	17	PF 1/8	PF 1/4
	DMFG-01G-03G	24	4	14	32	8	17	PF 1/8	PF 3/8
	DMFG-02G-01G	19	5	18	28	12	12	PF 1/4	PF 1/8
	DMFG-02G-03G	24	5	18	36	12	17	PF 1/4	PF 3/8
	DMFG-02G-04G	30	5	18	40	12	20	PF 1/4	PF 1/2
<b>PB 400</b>	DMFG-02G-06G	36	5	18	43	12	22	PF 1/4	PF 3/4
<b>PB 630</b>	DMFG-03G-02G	22	8	22	36	12	17	PF 3/8	PF 1/4
	DMFG-03G-04G	30	8	22	41	12	20	PF 3/8	PF 1/2
<b>PB 250</b>	DMFG-03G-06G	36	8	22	44	12	22	PF 3/8	PF 3/4
<b>PB 400</b>	DMFG-04G-03G	27	12	26	36	14	17	PF 1/2	PF 3/8
	DMFG-04G-06G	36	12	26	46	14	22	PF 1/2	PF 3/4
	DMFG-04G-08G	41	12	26	49	14	24.5	PF 1/2	PF 1
<b>PB 250</b>	DMFG-04G-10G	55	10	26	53	14	26.5	PF 1/2	PF 1 1/4
<b>PB 400</b>	DMFG-06G-04G	32	16	32	41	16	20	PF 3/4	PF 1/2
	DMFG-06G-08G	41	16	32	51	16	24.5	PF 3/4	PF 1
	DMFG-06G-10G	55	16	32	55	16	26.5	PF 3/4	PF 1 1/4
<b>PB 250</b>	DMFG-06G-12G	60	16	32	57	16	28.5	PF 3/4	PF 1 1/2
<b>PB 400</b>	DMFG-08G-06G	41	20	39	47	18	22	PF 1	PF 3/4
<b>PB 250</b>	DMFG-08G-10G	55	20	39	57	18	26.5	PF 1	PF 1 1/4
	DMFG-08G-12G	60	20	39	59	18	28.5	PF 1	PF 1 1/2
	DMFG-10G-08G	50	25	49	52	20	24.5	PF 1 1/4	PF 1
	DMFG-10G-12G	60	25	49	60	20	28.5	PF 1 1/4	PF 1 1/2
	DMFG-12G-10G	55	32	55	58	22	26.5	PF 1 1/2	PF 1 1/4
	DMFG-16G-12G	70	40	68	62	24	28.5	PF 2	PF 1 1/2

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DMFC-ED

### Male Female Connector with ED-Ring

#### BSP Parallel Thread Type

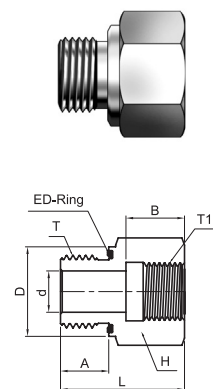


Series	Part Number	Dimension						
		H	D	L	A	B	T	T1
<b>PB 630</b>	DMFC-03ED-01G	22	22	22.5	12	8	PF 3/8	PF 1/8
<b>PB 630</b>	DMFC-04ED-01G	27	26	24	14	8	PF 1/2	PF 1/8
<b>PB 400</b>	DMFC-04ED-02G	27	26	24	14	12	PF 1/2	PF 1/4
<b>PB 400</b>	DMFC-06ED-02G	32	32	26	16	12	PF 3/4	PF 1/4
	DMFC-06ED-03G	32	32	26	16	12	PF 3/4	PF 3/8
<b>PB 400</b>	DMFC-08ED-02G	41	39	29	18	12	PF1	PF 1/4
	DMFC-08ED-03G	41	39	29	18	12	PF1	PF 3/8
	DMFC-08ED-04G	41	39	29	18	14	PF1	PF 1/2
<b>PB 250</b>	DMFC-10ED-04G	50	49	32	20	14	PF 1 1/4	PF 1/2
	DMFC-10ED-06G	50	49	32	20	16	PF 1 1/4	PF 3/4
<b>PB 250</b>	DMFC-12ED-04G	55	55	36	22	14	PF 1 1/2	PF 1/2
	DMFC-12ED-06G	55	55	36	22	16	PF 1 1/2	PF 3/4
	DMFC-12ED-08G	55	55	36	22	18	PF 1 1/2	PF1

## DMFG-ED

### Male Female Gauge Connector with ED-Ring

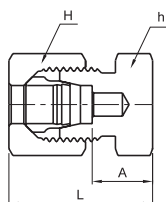
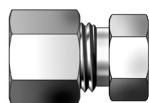
#### BSP Parallel Thread Type



Series	Part Number	Dimension							
		H	d	D	L	A	B	T	T1
<b>PB 630</b>	DMFG-01ED-02G	19	4	14	31	8	17	PF 1/8	PF 1/4
	DMFG-01ED-03G	24	4	14	32	8	17	PF 1/8	PF 3/8
	DMFG-02ED-01G	19	5	18	28	12	12	PF 1/4	PF 1/8
	DMFG-02ED-03G	24	5	18	36	12	17	PF 1/4	PF 3/8
	DMFG-02ED-04G	30	5	18	40	12	20	PF 1/4	PF 1/2
<b>PB450</b>	DMFG-02ED-06G	36	5	18	43	12	22	PF 1/4	PF 3/4
<b>PB 630</b>	DMFG-03ED-02G	22	8	22	36	12	17	PF 3/8	PF 1/4
	DMFG-03ED-04G	30	8	22	41	12	20	PF 3/8	PF 1/2
<b>PB400</b>	DMFG-03ED-06G	36	8	22	44	12	22	PF 3/8	PF 3/4
<b>PB400</b>	DMFG-04ED-03G	27	12	26	36	14	17	PF 1/2	PF 3/8
	DMFG-04ED-06G	36	12	26	46	14	22	PF 1/2	PF 3/4
	DMFG-04ED-08G	41	12	26	49	14	24.5	PF 1/2	PF 1
<b>PB250</b>	DMFG-04ED-10G	55	10	26	53	14	26.5	PF 1/2	PF 1 1/4
<b>PB400</b>	DMFG-06ED-04G	32	16	32	41	16	20	PF 3/4	PF 1/2
	DMFG-06ED-08G	41	16	32	51	16	24.5	PF 3/4	PF 1
	DMFG-06ED-10G	55	16	32	55	16	26.5	PF 3/4	PF 1 1/4
<b>PB250</b>	DMFG-06ED-12G	60	16	32	57	16	28.5	PF 3/4	PF 1 1/2
<b>PB400</b>	DMFG-08ED-06G	41	20	39	47	18	22	PF 1	PF 3/4
<b>PB250</b>	DMFG-08ED-10G	55	20	39	57	18	26.5	PF 1	PF 1 1/4
	DMFG-08ED-12G	60	20	39	59	18	28.5	PF 1	PF 1 1/2
	DMFG-10ED-08G	50	25	49	52	20	24.5	PF 1 1/4	PF 1
	DMFG-10ED-12G	60	25	49	60	20	28.5	PF 1 1/4	PF 1 1/2
	DMFG-12ED-10G	55	32	55	58	22	26.5	PF 1 1/2	PF 1 1/4
	DMFG-16ED-12G	70	40	68	62	24	28.5	PF 2	PF 1 1/2

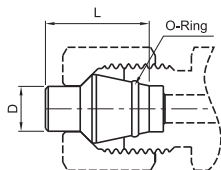
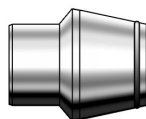
• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.

## DC Tube Cap



Series	Part Number	Tube O.D.	Dimension			
			H	h	L	A
<b>L Light PN 315</b>	DC-06L	6	14	12	22	7.0
	DC-08L	8	17	14	23	8.0
	DC-10L	10	19	17	24	9.0
	DC-12L	12	22	19	25	10.0
	DC-15L	15	27	24	26	11.0
<b>PN 160</b>	DC-18L	18	32	27	28	11.5
	DC-22L	22	36	32	30	13.5
	DC-28L	28	41	41	31	14.5
	DC-35L	35	50	46	36	14.5
<b>S Heavy PN 630</b>	DC-42L	42	60	55	39	16.0
	DC-06S	6	17	14	26	11.0
	DC-08S	8	19	17	28	13.0
	DC-10S	10	22	19	29	12.5
	DC-12S	12	24	22	31	14.5
<b>PN 400</b>	DC-14S	14	27	24	34	16.0
	DC-16S	16	30	27	34	15.5
	DC-20S	20	36	32	39	17.5
	DC-25S	25	46	41	44	20.0
<b>PN 315</b>	DC-30S	30	50	46	47	20.5
	DC-38S	38	60	55	54	23.0

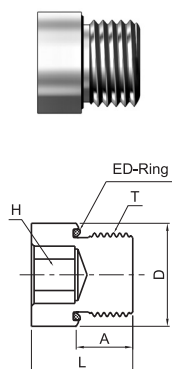
## DP Plug



Series	Part Number	Tube O.D.	Dimension	
			D	L
<b>L Light PN 315</b>	DP-06LS	6	6	18.5
	DP-08LS	8	8	18.5
	DP-10LS	10	10	20
	DP-12LS	12	12	20.5
	DP-15L	15	15	20.5
<b>PN 160</b>	DP-18L	18	18	22.5
	DP-22L	22	22	25
	DP-28L	28	28	25.5
	DP-35L	35	35	30
<b>S Heavy PN 630</b>	DP-42L	42	42	30
	DP-14S	14	14	22.5
<b>PN 400</b>	DP-16S	16	16	23.5
	DP-20S	20	20	28.5
	DP-25S	25	25	29
<b>PN 315</b>	DP-30S	30	30	30.5
	DP-38S	38	38	33

## DBP-GED/MED(BSP Parallel/Metric Parallel)

### Blanking Plugs for Port with ED-Ring

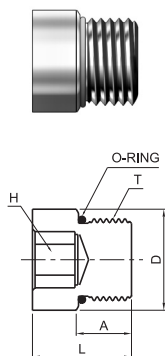


Series	Part Number	T		Dimension			
		M(Metric)	G(PF)	D	H	L	A
PB 400	DBP-01GED	M10 x 1.0	1/8	14.0	5	12.0	8
	-	M12 x 1.5	-	17.0	6	17.0	12
	DBP-02GED	M14 x 1.5	1/4	19.0	6	17.0	12
	DBP-03GED	M16 x 1.5	3/8	22.0	8	17.0	12
	-	M18 x 1.5	-	23.9	8	17.0	12
	-	M20 x 1.5	-	25.9	10	19.0	14
	DBP-04GED	M22 x 1.5	1/2	27.0	10	19.0	14
	-	M26 x 1.5	-	31.9	12	21.0	16
	DBP-06GED	M27 x 2.0	3/4	32.0	12	21.0	16
	DBP-08GED	M33 x 2.0	1	39.9	17	22.5	16
PB 250	DBP-10GED	M42 x 2.0	1 1/4	49.9	22	22.5	16
	DBP-12GED	M48 x 2.0	1 1/2	55.0	24	22.5	16

## DBP-M (Metric Parallel)

### Blanking Plugs with O-Ring

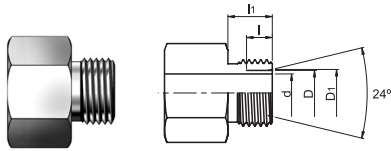
(accord.to ISO 6149-3/DIN 3582)



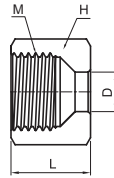
Series	Part Number	T	Dimension			
		M(Metric)	D	H	L	A
PB 630	DBP-M10	M10 x 1	13	5	14	10
	DBP-M12	M12 x 1.5	17	6	16.5	11.5
	DBP-M14	M14 x 1.5	19	6	16.5	11.5
	DBP-M16	M16 x 1.5	21	6	18	13
	DBP-M18	M18 x 1.5	23	8	19.5	14.5
	DBP-M22	M22 x 1.5	27	10	20.5	15.5
	DBP-M26	M26 x 1.5	31	12	21	16
	DBP-M27	M27 x 2	32	12	24	19
	DBP-M33	M33 x 2	38	17	25.5	19
	DBP-M42	M42 x 2	48	22	26	19.5



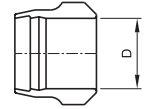
## Tube end Dimension



## DNT NUT

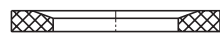


## DCR Cutting Ring



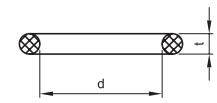
Series	Nut Part Number	Cutting Ring Part Number	Tube O.D.	DN Size	Dimension							
					D	D1	d	H	L	M	I	I1
<b>LL Very Light</b>	DNT-04LL	DCR-04LL	4	3	4	5	3	10	11.5	M8 x 1.0	4	8
	DNT-06LL	DCR-06LL	6	4	6	7.5	4.5	12	12	M10 x 1.0	5.5	8
	DNT-08LL	DCR-08LL	8	6	8	9.5	6	14	12.5	M12 x 1.0	5.5	9
	DNT-10LL	DCR-10LL	10	8	10	11.5	8	17	12.5	M14 x 1.0	6	9
	DNT-12LL	DCR-12LL	12	10	12	13.5	10	19	13	M16 x 1.0	6	9
<b>L Light</b>	DNT-06L	DCR-06	6	4	6	8.1	4	14	15	M12 x 1.5	7	10
	DNT-08L	DCR-08	8	6	8	10.1	6	17	15	M14 x 1.5	7	10
	DNT-10L	DCR-10	10	8	10	12.3	8	19	16	M16 x 1.5	7	11
	DNT-12L	DCR-12	12	10	12	14.3	10	22	16	M18 x 1.5	7	11
	DNT-15L	DCR-15	15	12	15	17.3	12	27	17.5	M22 x 1.5	7	12
	DNT-18L	DCR-18	18	16	18	20.3	15	32	18	M26 x 1.5	7.5	12
	DNT-22L	DCR-22	22	20	22	24.3	19	36	20.5	M30 x 2.0	7.5	14
	DNT-28L	DCR-28	28	25	28	30.3	24	41	21	M36 x 2.0	7.5	14
	DNT-35L	DCR-35	35	32	35	38	30	50	24	M45 x 2.0	10.5	16
DNT-42L	DCR-42	42	40	42	45	36	60	24	M52 x 2.0	11	16	
<b>S Heavy</b>	DNT-06S	DCR-06	6	3	6	8.1	4	17	16.5	M14 x 1.5	7	12
	DNT-08S	DCR-08	8	4	8	10.1	5	19	16.5	M16 x 1.6	7	12
	DNT-10S	DCR-10	10	6	10	12.3	7	22	17.5	M18 x 1.5	7.5	12
	DNT-12S	DCR-12	12	8	12	14.3	8	24	18	M2 x 1.5	7.5	12
	DNT-14S	DCR-14	14	10	14	16.3	10	27	20.5	M22 x 1.5	8	14
	DNT-16S	DCR-16	16	12	16	18.3	12	30	21	M24 x 1.5	8.5	14
	DNT-20S	DCR-20	20	16	20	22.9	16	36	24	M30 x 2.0	10.5	16
	DNT-25S	DCR-25	25	20	25	27.9	20	46	27	M36 x 2.0	12	18
	DNT-30S	DCR-30	30	25	30	33	25	50	29.5	M42 x 2.0	13.5	20
	DNT-38S	DCR-38	38	32	38	41	32	60	32.5	M52 x 2.0	16	22

## DED ED-Ring



Part Number	For Male Thread	
DED- M8	M8 x 1.0	-
DED-M10	M10 x 1.0	PF 1/8
DED-M12	M12 x 1.5	-
DED-M14	M14 x 1.5	PF 1/4
DED-M16	M16 x 1.5	-
DED-03G	-	PF 3/8
DED-M18	M18 x 1.5	-
DED-M20	M20 x 1.5	-
DED-04G	-	PF 1/2
DED-M22	M22 x 1.5	--
DED-M26	M26 x 1.5	
DED-M27	M27 x 2.0	PF 3/4
DED-M33	M33 x 2.0	PF 1
DED-M42	M42 x 2.0	PF 1 1/4
DED-M48	M48 x 2.0	PF 1 1/2

## DOR O-Ring



Part Number	For Male Thread	
DOR-4	4	1.5
DOR-6	6	1.5
DOR-7.5	7.5	1.5
DOR-9	9	1.5
DOR-10	10	2.0
DOR-12	12	2.0
DOR-15	15	2.0
DOR-16.3	16.3	2.4
DOR-20	20	2
DOR-20.3	20.3	2.4
DOR-25.3	25.3	2.4
DOR-26	26	2
DOR-32	32	2.5
DOR-33.3	33.3	2.4
DOR-38	38	2.5

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change  
 • Dimensions given approximate length with tightened nut.