

SUPERIOR

HYDROLIQUE PVT LTD



TUBE FITTINGS

CATALOGUE

www.superflowfittings.com

Introduction

The SHPL bite type fitting is a flare less metric fitting that consists of a body, a progressive ring (ferrule) and a nut.

On assembly, two cutting edges of the progressive ring “bite” into the outer surface of the tube ensuring the necessary holding power for high pressure.

Available in three series, the bite fittings and accessories are manufactured in accordance with DIN 2353.

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 SHPL Bite Type Tube Fittings are designed and manufactured to produce a strong, reliable, leak-free joint upon proper assembly.

The Bite Type Body:

SHPL fitting bodies are available in over thirty configurations. The shaped products (i.e. elbows, tees, crosses) are hot forged, and then machined to the stringent SHPL fitting specifications.

The forging process used further improves the strength and metallurgical properties of the fitting material. Straight products are made from cold drawn bar stock. The cold drawing operation ensures consistently tight dimensional tolerances, as well as significantly improved strength.

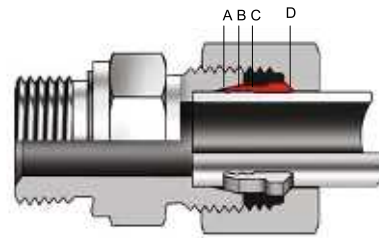
The Bite Type Cutting Ring:

Progressive rings are precision machined with all dimensions and surfaces, particularly the critical edges, monitored on an ongoing basis. The rings are then heat treated in a manner that provides the hardness, strength, and toughness necessary to satisfy the demanding service conditions that exist in industry today.

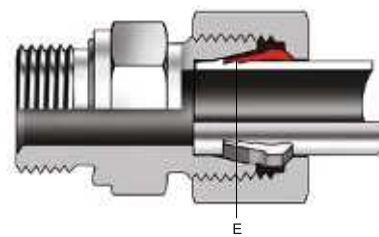
The SHPL Bite Type Nut:

SHPL fitting nuts are either cold formed, hot formed or machined from cold drawn materials. The cold forming and cold drawing operations provide a more tightly packed grain structure, thus improving the material's strength. In addition, cold forming significantly improves the fatigue properties or endurance limits of the nuts.

Function of Progressive Bite Type Tube Fittings



Before tightening the nut



After tightening the nut

The SHPL Cutting Ring fitting produces a low to high pressure seal. Leak free connection of tubes and components in fluid systems. The basic function of the Cutting Ring is the controlled progressive bite of the ring into the tube due to unique internal geometry.

The front cutting edge (A) has already started cutting into the tube before the second cutting edge (B) starts. As soon as both cutting edges have cut the tube to the designed depth further advance is limited by the stop edge (C).

Owing to the design of both cutting edges and stop edge all forces arising are equally designed. This distribution along with the specially designed inner collar (D) of the ring guarantees increased safety, particularly with regard to vibration and flexure stresses, the design and function of the progressive cutting ring ensure that service vibration loading is not present in the areas of the tubing where the bite is made.

The stop edge causes a sharp increase in tightening forces which is clearly perceptible. After assembly, a visible collar (E) of cut tube material must completely fill the space in front of the first cutting edge. When stainless steel tube and non-ferrous made from the cutting steel, the collar is less due to the harder material.

During assembly, it is absolutely essential that the tube is held firmly against the stop in the inner core 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

Steel Fittings: Materials see DIN3859

Stainless Steel Fitting: X6CrNiMoTi 17122 in accordance with DIN17440, material no. 1.14571

Brass Fitting: CuZn35Ni2 in accordance with DIN17660/17672, material no 2.0540.

Elastomeric Seal: NBR (BUNA - N), DIN 17660FPM (VITON)

Pressure and Temperature Load Capability

Working pressure

Series	Pressure Ratings			
	Steel (DIN3859)/Brass		SS316 (DIN	
	Size	Pressure	Size	Pressure
LL (Very Light)	4 - 8	100	4 - 12	100
	6 - 18	315	6 - 15	250
L (Light)	-	-	18 - 22	160
	22 - 42	160	28 - 42	100
	6 - 14	630	6 - 14	630
S (Heavy)	16 - 30	400	16 - 25	400
	38	315	30 - 38	315

* Working pressure - The nominal pressure (PN) as referred to in DIN2401, part 1 draft

Permissible operating temperature (TB) range for fitting materials

Material of Fittings	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 specification in the pressure reductions section are to be observed 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 the 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 (1.4571)	- 60 °C up to + 20	-
	+ 50 °C	4%
	+ 100 °C	11%
	+ 200 °C	20%
	+ 300 °C	29%
Carbon steel	+ 400 °C	33%
	- 40 °C up to + 120 °C	-
Brass	- 60 °C up to + 175 °C	30%

* For different material of tubes and fitting.

The tubes must be tested separately concerning the allowed temperature range and the necessary reduction of pressure.

Tubeing guide

Seamless precision steel tube St 37.4

We recommend the use of seamless precision steel tubes with dimensions to DIN 2391, part 1, material St 37.4 to DIN 1630, TYPE NBK. The following tube wall thick ness are suitable for use:

Tube O.D (mm)	Tolerance (mm)	Wall Thickness (mm)	Tube I.D (mm)	Design Pressure(bar)		Weight (kg/m)
				DIN2413	DIN2413	
				Static	Dynamic	
4	0.1	0.5	3	313	274	0.047
		0.75	2.5	490	391	0.060
		1.0	2	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
15	0.08	3.5	5	651	624	0.734
		0.1	12	201	182	0.321
		1.5	11	302	625	0.462
		2.0	10	403	343	0.592
16	0.08	2.5	9	434	417	0.709
		3.0	8	507	487	0.814
		3.5	7	576	553	0.906
		4	6	576	553	0.986
18	0.08	1.0	13	188	171	0.345
		1.5	12	282	248	0.499
		2.0	11	336	321	0.641
		2.5	10	409	391	0.771
20	0.08	3.0	9	478	458	0.888
		1.0	14	176	160	0.370
		1.5 *	13	264	234	0.536
		2.0	12	353	303	0.691
22	0.08	2.5 *	11	386	370	0.832
		3.0	10	452	433	0.962
		1.0	16	157	143	0.419
25	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	DIN2413	
				Static	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
		15	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
		2.5	30	201	181	2.000
38	0.15	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
		7.0	24	446	427	5.350
42	0.2	2.0 *	28	134	124	1.973
		3.0	26	203	181	2.890
		4.0	34	269	237	3.750

Tube which need a support sleeve for assembly in SHPL Bite Type Tube Fittings.

Tubing guide

Seamless precision stainless steel 1.4571

Stainless steel tube (e.g. 1.4571), code X6CrNiMoTi 17122, must be cold-drawn and seamless, heat - treated without formation of scale, type m to Din 17458, provide tolerances to SFIN2391, Part 1

Tube O.D	Tolerance	Wall Thickn	Tube I.D (mm)	Design Pressure(bar)		Weight
				DIN2413	DIN2413	
				Static	Dynamic	
6	±0.1	1.0	4	426	330	0.125
8	0.1	1.0	6	368	256	0.175
		1.5	5	472	366	
10	±0.08	1.0	8	294	209	0.225
		1.5	7	389	301	
		2.0 *	6	498	386	
12	0.08	1.0	10	245	177	0.275
		1.5	9	368	256	
		2.0	8	426	330	
14	±0.08	1.5	11	315	223	0.469
		2.0	10	420	289	
		2.5	9	452	351	
15	0.08	1.0	13	196	143	0.351
		1.5	12	294	209	
		2.0	11	392	271	
16	0.08	2.0	12	368	256	0.701
		2.5	11	403	312	
		3.0	10	472	366	

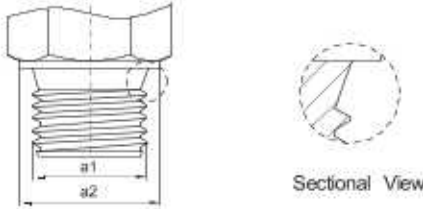
Tube O.D (mm)	Tolerance (mm)	Wall Thickness (mm)	Tube I.D (mm)	Design Pressure(bar)		Weight (kg/m)
				DIN2413	DIN2413	
				Static	Dynamic	
18	0.08	1.5	15	245	177	0.620
			14	327	230	
20	0.08	2.0	16	294	209	0.901
		2.5	15	368	256	
		3.0	14	309	301	
22	±0.08	1.5	19	200	146	0.770
		2.0	18	267	192	
25	0.08	2.5	2	294	209	1.408
		3.0	19	353	247	
28	±0.08	1.5	25	158	177	0.995
		2.0	24	210	153	
30	0.08	3.0	24	294	209	2.028
		4.0	22	392	271	
35	±0.15	2.0	31	168	124	1.653
38	0.15	4.0	3	309	219	3.405
		5.0	28	387	268	
42	0.2	2.0	39	140	104	2.003
		3.0	36	210	153	

* Tube which a support need sleeve for assembly in SUPERFLOW Bite Type Tube Fittings.

Stud Ends & Tapered Hold Forms for Tube Fittings

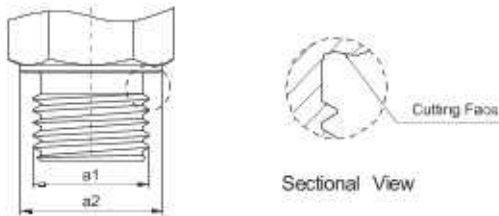
Form of Stud Ends

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



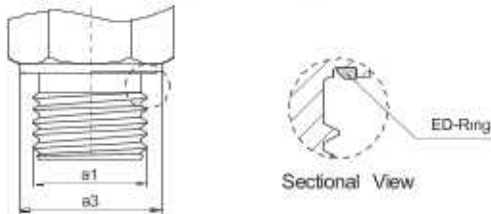
Sectional View

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



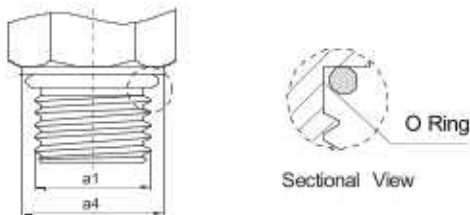
Sectional View

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



Sectional View

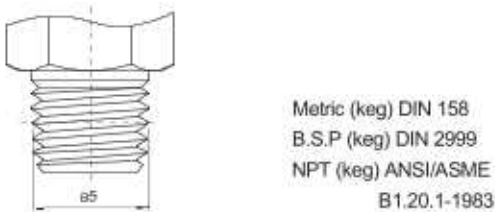
Form F (DIN 3852 Part 3) with sealing by *O-Ring



Sectional View

* ED-Ring & O-Ring Seals made of NBR Standard (-20°C to 100°C)
Available made of viton Upon Request (-20°C to 200°C)

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 ⁰ _{-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 1/16-12UNF	-	-	31.9
1 5/16-12UNF	-	-	38.2
1 5/8-12UNF	-	-	47.4

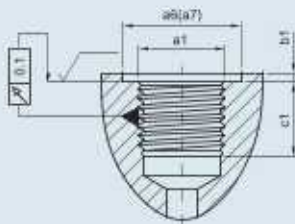
Thread size for Form C Stud Ends

a5		
M8 X1.0 keg	1/8 NPT	R 1/8 keg.
M10 X1.0 keg	1/4 NPT	R 1/4 keg.
M12X 1.5keg	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 X1.5 keg	1 NPT	R 1 keg.
M20 X1.5 keg	1 1/4 NPT	R 1 1/4 keg.
M22 X1.5 keg	1 1/2 NPT	R 1 1/2 keg.

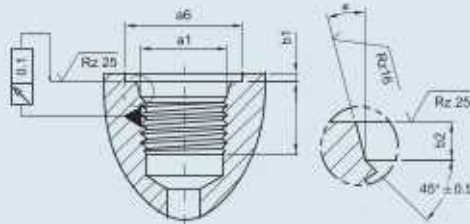
Stud Ends & Tapered Hold Forms for Tube Fitting

From of Tapped Holes

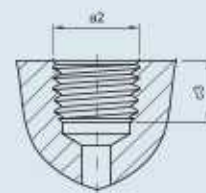
Form X (DIN 3852 Part 1,2)
For parallel Stud Ends. (from A,B)
* a7 is Stud Ends Form E



Form W (DIN 3852 Part 3)
for Stud Ends with O-Ring. (Form F)



Form Z (DIN 3852 Part 1+2)
for tapered thread Stud Ends.



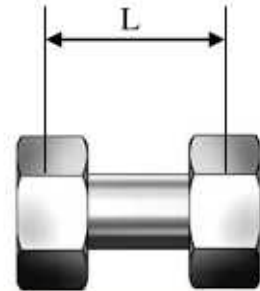
Thread size for		a6 min.	a7	B1 max.	a2 ^{+0.40}	C1 min.	C2 min.	C3 min.	a ⁰ ± 1
Form X,W Tapped Holes a1	Form Z Tapped Holes a2								
M8 X1.0	M8 X 1.0 keg.	13.0	-	1.0	1.6	-	10.0	5.5	12.0
M10 X1.0	M10 X 1.0 keg.	15.0	15.0	1.0	1.6	8.0	10.0	5.5	12.0
M12 X1.5	M12 X 1.5 keg.	18.0	18.0	1.5	2.4	12.0	11.5	8.5	12.0
M14 X1.5	M14 X 1.5 keg.	20.0	20.0	1.5	2.4	12.0	11.5	8.5	15.0
M16 X1.5	M16 X 1.5 keg.	22.0	23.0	1.5	2.4	12.0	13.0	8.5	15.0
M18 X1.5	M18 X 1.5 keg.	24.0	25.0	2.0	2.4	12.0	14.5	8.5	15.0
M20 X1.5	M20 X 1.5 keg.	26.0	27.0	2.0	2.4	14.0	15.0	10.5	15.0
M22 X1.5	M22 X 1.5 keg.	28.0	28.0	2.5	2.4	14.0	15.5	10.5	15.0
M26 X1.5	-	32.0	33.0	2.5	3.1	16.0	16.0	-	15.0
M27 X2.0	-	33.0	33.0	2.5	3.1	16.0	19.0	-	15.0
M33 X2.0	-	40.0	41.0	2.5	3.1	18.0	19.0	-	15.0
M42 X2.0	-	50.0	51.0	2.5	3.1	20.0	19.5	-	15.0
M48 X2.0	-	56.0	56.0	2.5	3.1	22.0	22.0	-	15.0
G 1/8	1/8 NPT	15.0	15.0	1.0	-	8.0	-	6.9	-
G 1/4	1/4 NPT	19.0	20.0	1.5	-	12.0	-	10.0	-
G 3/8	3/8 NPT	23.0	23.0	2.0	-	12.0	-	10.3	-
G 1/2	1/2 NPT	27.0	28.0	2.5	-	14.0	-	13.6	-
G 3/4	3/4 NPT	33.0	33.0	2.5	-	16.0	-	14.1	-
G 1	1 NPT	40.0	41.0	2.5	-	18.0	-	16.8	-
G 1 1/4	1 1/4 NPT	50.0	51.0	2.5	-	20.0	-	17.3	-
G 1 1/2	1 1/2 NPT	56.0	56.0	2.5	-	22.0	-	17.3	-
7/16-20UNF	R 1/8 keg.	21.0	-	1.6	2.4	-	11.5	5.5	12.0
9/16-18UNF	R 1/4 keg.	25.0	-	1.6	2.5	-	12.7	8.5	12.0
3/4-16UNF	R 3/8 keg.	30.0	-	2.4	2.5	-	14.3	8.5	15.0
7/8-14UNF	R 1/2 keg.	34.0	-	2.4	2.5	-	16.7	10.5	15.0
1 1/16-12UNF	R 3/4 keg.	41.0	-	2.4	3.3	-	19.0	13.0	15.0
1 5/16-12UN	R 1keg.	49.0	-	3.2	3.3	-	19.0	16.0	15.0
1 5/8-12UN	R 1 1/4 keg.	58.0	-	3.2	3.3	-	19.0	17.0	15.0
	R 1 1/2 keg.	-	-	-	-	-	-	17.0	-

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 standpipe hose ends must be pre-assembled in a pre-assembly tool.

A) Preparing the tube

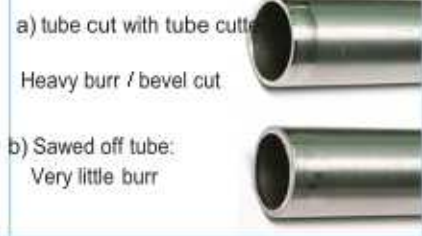
1 Maximum height H for straight tube end Minimum length L for short piece of tube



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



Saw off tube square angle tolerance to the tube axis.



Lightly de - burr inside and outside edge. Bevel up to 0.3mm X 45° (0.012° X 45°) permissible.

B) Preparing fittings parts with lubricants



Lubricate thread and cone of fitting body, also cutting ring and thread of nut.

Assembly in fitting body

C) Components

6



Slip nut and progressive ring over tube end.

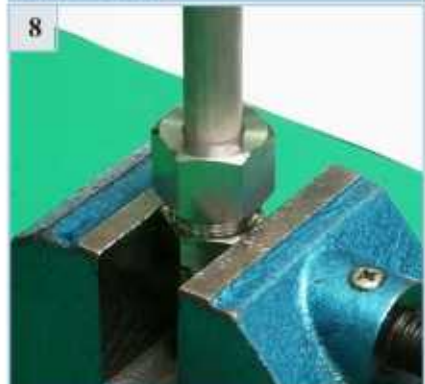
7



Ensure progressive ring and nut are facing the right way.

D) Assembly

8



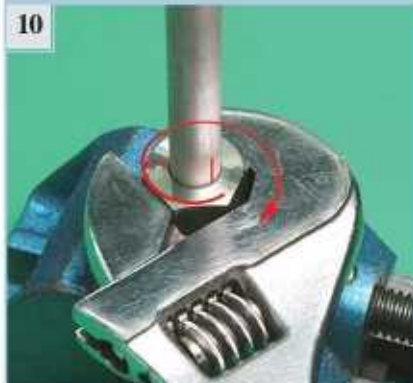
Screw nut manually on to fitting body until finger tight. Hold tube against the shoulder in the cone of fitting body.

9



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

10



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

E) Check

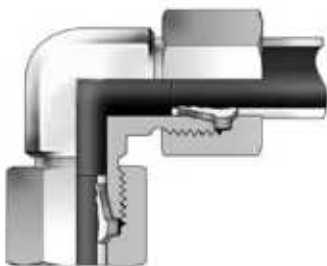
11



Loosen nut. Remove tube from fitting and check if a visible collar fills space in front of 1st cutting edge completely. If not, tighten slightly more. If does not matter if ring can be routed on tube end.

F) Final assembly

12



Final assembly of all pre-assembled fitting (SFSE, SFSBT, SFSRT, SFSRA) is made in the appropriate body (well lubricated) with at least 1/4 turn of the nut beyond the point of a clearly perceptible resistance.

G) Repeated assembly

13



On remaking joints, nut to be tightened without increased effort. Fitting body to 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, form A, DIN 3868.

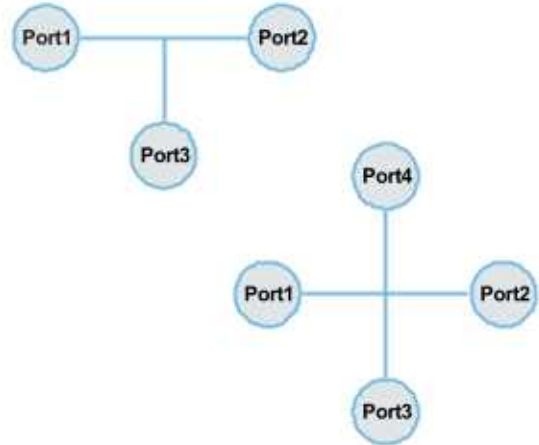
We recommend the use of swivel nuts, from B in conformance with DIN 3865.

Ordering Information

Example 1		Male Connector					
SF MC - 10 L 2G ED - SS							
I	II	III	IV	V	VI	VII	

Example 2		Reducing Union Tee					
SF RUT - 10 L - 10 L - 8 L - B							
I	II	III	IV	III	IV	III	IV
		* Port1		* port2		* port3	

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



- I : SUPERFLOW Bite Type Tube Fitting
- II : Name of Fitting: Refer to Index
- III : 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

IV : Series

Series	Very Light	Light	Heavy
Identify	LL	L	S

V : Thread Size: See Thread Specification

VI : Elastomeric: ED-Ring & O - Ring seal (Refer to Seal Material)

VII: 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"	
NPT	1N	2N	3N	4N	6N	8N	10N	12N	ANSI/ASME B1.20.1
ISO/BSP Parallel	1G	2G	3G	4G	6G	8G	10G	12G	ISO228 (DIN259)
ISO/BPS Tapered	1R	2R	3R	4R	6R	8R	10R	12R	DIN - 2999

Metric Thread

Thread Type	Thread Size								Specification	
	M8 X1.0	M10X1.0	M12 X1.5	M14X1.5	M16 X 1.5	M18X1.1	.....	M42X2.		M48X2.0
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 1/8-12UNF	1 5/16-12UNF	1 5/8-12UNF
ASME B1.1	4U	6U	8U	10U	12U	16U	20U

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	SFUE Union Elbow	13
	SFRU Reducing Union	14
	SFUT Union Tee	15
	SFUC Union Cross	15
	SFRUT Reducing Union Tee	16
	SFBHU Bulkhead Union	17
	SFBUW Weld Bulkhead Union	17
	SFBUE Bulkhead Union Elbow	18
Tube to Female Port		Part No.
	SFOMC-U/M Male Connector with O-Ring	19


	SFMC-G Male Connector	20
	SFMC-R Male Connector	21
	SFMC-M Male Connector	22
	SFMC-MK Male Connector	22
	SFMC-GED Male Connector with ED-Ring	23
	SFMC-MED Male Connector with ED-Ring	24
	SFMC-N Male Connector	25
	SFME-R/M Male Elbow	26

Tube to Male Thread

















		Part No.
	SFFC-G/M Female Connector	27

Tube to Tube Port (Adjustable Fittings)

		Part No.
	SFAE Adjustable Elbow	28

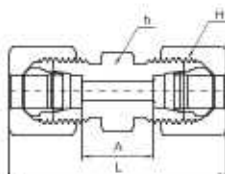
	SFABT Adjustable Branch Tee	28
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<i>Tube Port to Tube Port</i>		<i>Weld Fittings</i>		<i>Plugs & Caps</i>	
<i>Part No.</i>		<i>Part No.</i>		<i>Part No.</i>	
	SFU 39 Swivel Union		SFTC 44 Test Coupling		SFC 49 Tube Cap
<i>Banjo Fittings</i>			SFWC 45 Welding Connector		SFP 49 Plug
	SFBE-G/M 40 Banjo Elbow		SFAWC 45 Welding Connector with DWN		SFBP-GED/MED 50 Blanking Plugs for Port with ED-Ring
	SFHBE-G/M 41 High Pressure Banjo Elbow		SFWN 46 Welding Nipple		SFBP-M 50 Blanking Plugs with ED-Ring
	SFHBT-G/M 42 High Pressure Banjo Tee		SFRWN 46 Reducing Welding	<i>Spare Part</i>	
<i>Gauge Connector & Test Couplings</i>		<i>Male & Female Adaptors</i>		<i>Part No.</i>	
	SFGC-G 43 Pressure Gauge Connector		SFMFC 47 Male Female Connector		SFN 51 Nut
	SFSGA-G 43 Pressure Gauge Swivel Connector		SFMFG 47 Male Female Gauge Connector		SFS 51 Cutting Ring
	SFGA-G 43 Gauge Adaptor		SFMFC-ED 48 Male Female Connector with ED-Ring		SFED 51 ED-Ring
	SFTPC 44 Tee Test Point Connector		SFMFG-ED 48 Male Female Gauge Connector with ED-Ring		SFOR 51 O-Ring

SFU

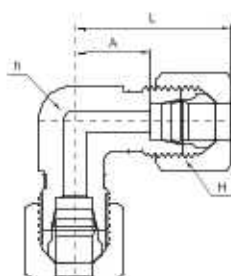
Union



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

SFUE

Union Elbow

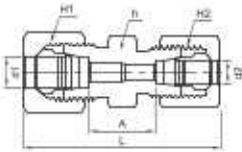


Series	Part Number	Tube O.D.	Dimension (mm)			
			H	h	L	A
LL Very Light PN 100	SFUE-04LL	4	10.0	9.0	21.0	11.0
	SFUE-06LL	6	12.0	9.0	21.0	9.5
	SFUE-08LL	8	14.0	12.0	23.0	11.5
	SFUE-10LL	10	17.0	14.0	24.0	12.5
	SFUE-12LL	12	19.0	17.0	25.0	13.0
L Light PN 315	SFUE-06L	6	14.0	12.0	27.0	12.0
	SFUE-08L	8	17.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

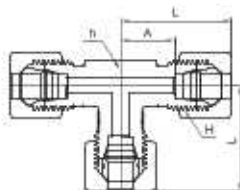
SFRU

Reducing Union

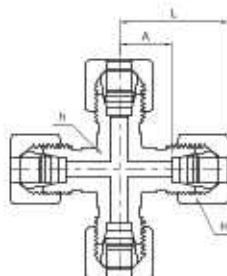


Series	Part Number	Tube O.D.		Dimension (mm)				
		d1	d2	H1	H2	h	L	A
L Light PN 315	SFRU08L-06L	8	6	17.0	14.0	14.0	40.0	11.0
	SFRU10L-06L	10	6	19.0	14.0	17.0	41.0	12.0
	SFRU10L-08L	10	8	19.0	17.0	17.0	41.0	12.0
	SFRU12L-06L	12	6	22.0	14.0	19.0	42.0	13.0
	SFRU12L-08L	12	8	22.0	17.0	19.0	42.0	13.0
	SFRU12L-10L	12	10	22.0	19.0	19.0	43.0	14.0
	SFRU15L-10L	15	10	27.0	19.0	24.0	45.0	15.0
	SFRU15L-12L	15	12	27.0	22.0	24.0	45.0	15.0
	SFRU18L-10L	18	10	32.0	19.0	27.0	46.0	15.5
	SFRU18L-12L	18	12	32.0	22.0	27.0	46.0	15.5
SFRU18L-15L	18	15	32.0	27.0	27.0	48.0	16.5	
PN 160	SFRU22L-12L	22	12	36.0	22.0	32.0	48.0	17.5
	SFRU22L-15L	22	15	36.0	27.0	32.0	50.0	18.5
	SFRU22L-18L	22	18	36.0	32.0	32.0	50.0	18.0
	SFRU28L-18L	28	18	41.0	32.0	41.0	52.0	19.0
	SFRU28L-22L	28	22	41.0	36.0	41.0	54.0	21.0
	SFRU35L-22L	35	22	50.0	36.0	46.0	59.0	21.0
SFRU35L-28L	35	28	50.0	41.0	46.0	59.0	21.0	
S Heavy PN 630	SFRU08S-06S	8	6	19.0	17.0	17.0	47.0	18.0
	SFRU10S-06S	10	6	22.0	17.0	19.0	48.0	17.5
	SFRU10S-08S	10	8	22.0	19.0	19.0	48.0	17.5
	SFRU12S-06S	12	6	24.0	17.0	22.0	50.0	19.5
	SFRU12S-08S	12	8	24.0	19.0	22.0	50.0	19.5
	SFRU12S-10S	12	10	24.0	22.0	22.0	51.0	19.0
	SFRU14S-10S	14	10	27.0	22.0	24.0	54.0	20.5
SFRU14S-12S	14	12	27.0	24.0	24.0	54.0	20.5	
PN 400	SFRU16S-12S	16	12	30.0	24.0	27.0	54.0	20.0
	SFRU16S-14S	16	14	30.0	27.0	27.0	57.0	21.5
	SFRU20S-10S	20	10	36.0	22.0	32.0	60.0	22.0
	SFRU20S-12S	20	12	36.0	24.0	32.0	60.0	22.0
	SFRU20S-16S	20	16	36.0	30.0	32.0	63.0	23.0
	SFRU25S-16S	25	16	46.0	30.0	41.0	68.0	25.0
	SFRU25S-20S	25	20	46.0	36.0	41.0	71.0	25.5
	SFRU30S-20S	30	20	50.0	36.0	46.0	74.0	26.0
SFRU30S-25S	30	25	50.0	46.0	46.0	77.0	26.5	
PN 315	SFRU38S-30S	38	30	60.0	50.0	55.0	87.0	29.5

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFUT
Union Tee


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

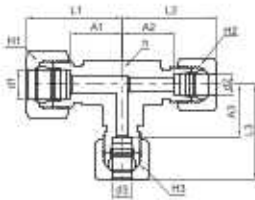
SFUC
Union Cross


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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFRUT

Reducing Union Tee

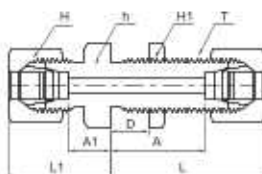


Series	Part Number	Tube O.D.			Dimension (mm)									
		d1	d2	d3	H1	H2	H3	h	L1	L2	L3	A1	A2	A3
L Light	SFRUT 06L-06L-08L	6	6	8	14	14	17	14	29	29	29	14.0	14.0	14.0
	SFRUT 08L-08L-06L	8	8	6	17	17	14	14	29	29	29	14.0	14.0	14.0
PN 315	SFRUT 06L-06L-10L	6	6	10	14	14	19	14	30	30	30	15.0	15.0	15.0
	SFRUT 08L-08L-10L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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFBHU

Bulkhead Union

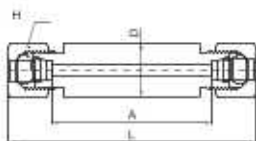


D=16mm Max Bulkhead thickness

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

SFBUW

Weld Bulkhead Union

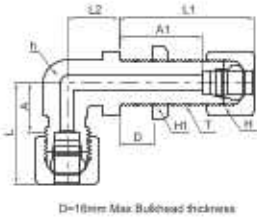


Series	Part Number	Tube O.D.	Dimension (mm)			
			H	D	L	A
L Light PN 315	SFBUW-06L	6	14.0	18.0	85.0	56.0
	SFBUW-08L	8	17.0	20.0	85.0	56.0
	SFBUW-10L	10	19.0	22.0	87.0	58.0
	SFBUW-12L	12	22.0	25.0	87.0	58.0
	SFBUW-15L	15	27.0	28.0	100.0	70.0
	SFBUW-18L	18	32.0	32.0	101.0	69.0
PN 315	SFBUW-22L	22	36.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFBUE

Bulkhead Union Elbow



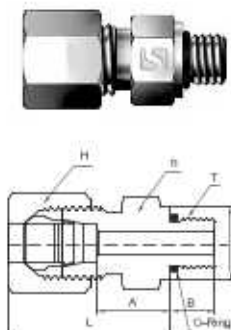
Series	Part Number	Tube O.D.	Dimension (mm)								
			H	H1	h	L	L1	L2	A	A1	T
L Light PN 315	SFBUE-06L	6	14.0	17.0	12.0	27.0	42.0	14.0	12.0	27.0	M12 x 1.5
	SFBUE-08L	8	17.0	19.0	12.0	29.0	42.0	17.0	14.0	27.0	M14 x 1.5
	SFBUE-10L	10	19.0	22.0	14.0	30.0	43.0	18.0	15.0	28.0	M16 x 1.5
	SFBUE-12L	12	22.0	24.0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

SFOMC-U/M (Unified/Metric Parallel)

Male Connector with O-Ring

Unified Thread Type



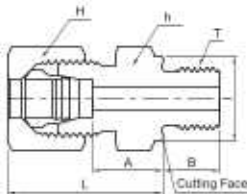
Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	l	L	A	B	T
L Light PN 315	SFOMC 08L-04U	8	17.0	17.0	14.4	25.0	9.0	10.0	7/16-20UNF-2A
	SFOMC 10L-04U	10	19.0	17.0	14.4	26.0	10.0	1.0	7/16-20UNF-2A
	SFOMC 12L-06U	12	22.0	19.0	17.6	26.0	10.0	11.0	9/16-18UNF-2A
	SFOMC 12L-08U	12	22.0	24.0	22.3	28.0	11.0	13.0	3/4-16UNF-2A
	SFOMC 12L-10U	12	22.0	27.0	25.5	29.0	12.7	14.3	7/8-14UNF-2A
	SFOMC 15L-08U	15	27.0	24.0	22.3	29.0	11.0	14.0	3/4-16UNF-2A
	SFOMC 15L-10U	15	27.0	27.0	25.5	30.0	12.7	15.3	7/8-14UNF-2A
	SFOMC 18L-08U	18	32.0	27.0	22.3	31.0	11.0	14.5	3/4-16UNF-2A
	SFOMC 18L-10U	18	32.0	27.0	25.5	31.0	12.7	14.8	7/8-14UNF-2A
PN 160	SFOMC 22L-10U	22	36.0	32.0	25.5	33.0	12.7	16.8	7/8-14UNF-2A
	SFOMC 22L-12U	22	36.0	32.0	31.9	33.0	15.0	16.5	1 1/16-12UN-2A
	SFOMC 22L-16U	22	36.0	41.0	38.2	34.0	15.0	7.5	1 5/16-12UN-2A
	SFOMC 28L-12U	28	41.0	41.0	31.9	34.0	15.0	17.5	1 1/16-12UN-2A
	SFOMC 28L-16U	28	41.0	41.0	38.2	34.0	15.0	17.5	1 5/16-12UN-2A
	SFOMC 35L-16U	35	50.0	46.0	38.2	39.0	15.0	17.5	1 5/16-12UN-2A
S HEAVY PN 630	SFOMC 08S-04U	8	19.0	17.0	16.0	30.0	9.0	15.0	7/16-20UNF-2A
	SFOMC 10S-06U	10	22.0	19.0	17.6	31.0	10.0	14.5	9/16-18UNF-2A
	SFOMC 12S-06U	12	24.0	22.0	17.6	31.0	10.0	14.5	9/16-18UNF-2A
	SFOMC 12S-08U	12	24.0	24.0	22.3	34.0	11.0	17.5	3/4-16UNF-2A
	SFOMC 16S-08U	16	30.0	24.0	22.3	34.0	11.0	15.5	3/4-16UNF-2A
	SFOMC 16S-10U	16	30.0	27.0	25.5	37.0	12.7	18.8	7/8-14UNF-2A
	SFOMC 20S-08U	20	36.0	32.0	22.3	42.0	11.0	20.5	3/4-16UNF-2A
	SFOMC 20S-10U	20	36.0	32.0	25.5	42.0	12.7	20.8	7/8-14UNF-2A
PN 400	SFOMC 20S-12U	20	36.0	32.0	31.9	42.0	15.0	20.5	1 1/16-12UN-2A
	SFOMC 25S-12U	25	46.0	38.0	31.9	47.0	15.0	23.0	1 1/16-12UN-2A
	SFOMC 25S-16U	25	46.0	41.0	38.2	47.0	15.0	23.0	1 5/16-12UN-2A
	SFOMC 30S-16U	30	50.0	46.0	38.2	50.0	15.0	23.5	1 5/16-12UN-2A
	SFOMC 30S-20U	30	50.0	50.0	47.7	50.0	15.0	23.5	1 5/8-12UN-2A
	PN 315	SFOMC 38S-20U	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 (mm)						
			H	h	l	L	A	B	T
L Light PN 315	SFOMC 06L-M10	6	14.0	14.0	-	23.0	10.0	8.5	M10 x 1.0
	SFOMC 08L-M12	8	17.0	17.0	-	25.0	11.5	10.0	M12 x 1.5
	SFOMC 10L-M14	10	19.0	19.0	-	26.0	11.5	11.0	M14 x 1.5
	SFOMC 12L-M16	12	22.0	22.0	-	27.0	13.0	12.0	M16 x 1.5
	SFOMC 15L-M18	15	27.0	24.0	-	29.0	14.5	13.5	M18 x 1.5
	SFOMC 18L-M22	18	32.0	27.0	-	30.0	15.5	14.0	M22 x 1.5
PN 160	SFOMC 22L-M26	22	36.0	32.0	-	32.0	16.0	16.0	M26 x 1.5
	SFOMC 28L-M33	28	41.0	41.0	38.0	34.0	19.0	17.5	M33 x 2.0
	SFOMC 35L-M42	35	50.0	50.0	48.0	39.0	19.5	17.5	M42 x 2.0
S Heavy PN 630	SFOMC 06S-M12	6	17.0	17.0	-	27.0	11.5	12.0	M12 x 1.0
	SFOMC 08S-M14	8	19.0	19.0	-	27.0	11.5	12.0	M14 x 1.5
	SFOMC 10S-M16	10	22.0	22.0	-	29.0	13.0	12.5	M16 x 1.5
	SFOMC 12S-M18	12	24.0	24.0	-	29.0	14.5	13.0	M18 x 1.5
PN 400	SFOMC 16S-M22	16	30.0	27.0	-	33.0	15.5	15.0	M22 x 1.5
	SFOMC 20S-M27	20	36.0	32.0	-	37.0	19.0	15.0	M27 x 2.0
	SFOMC 25S-M33	25	46.0	41.0	38.0	41.0	19.0	17.0	M33 x 2.0
	SFOMC 30S-M42	30	50.0	50.0	48.0	45.0	19.5	18.5	M42 x 2.0

SFMC-G (BSP Parallel)

Male Connector
BSP Parallel Thread Type

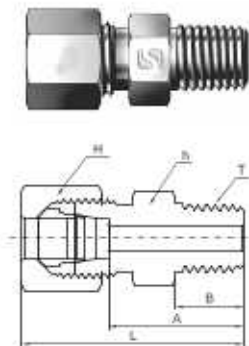


Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	I	L	A	B	T
L Light PN 315	SFMC 06L-01G	6	14.0	14.0	14.0	23.0	8.5	8.0	PF 1/8
	SFMC 06L-02G	6	14.0	19.0	18.0	25.0	10.0	12.0	PF 1/4
	SFMC 06L-03G	6	14.0	22.0	22.0	26.0	11.5	12.0	PF 3/8
	SFMC 06L-04G	6	14.0	27.0	26.0	27.0	12.0	14.0	PF 1/2
	SFMC 08L-01G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

All dimensions in millimeters. Dimensions given approximate length with tightened nut

SFMC-R (BSP Tapered)

Male Connector
 BSP Tapered Thread Type



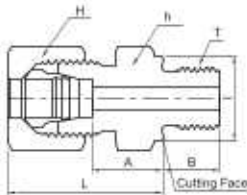
Series	Part Number	Tube O.D.	Dimension (mm)					
			H	h	L	A	B	T
LL Very Light PN 100	SFMC 04LL-01R	4	10.0	11.0	26.0	16.0	8.0	PT 1/8
	SFMC 06LL-01R	6	12.0	11.0	26.0	14.5	8.0	PT 1/8
	SFMC 08LL-01R	8	14.0	12.0	28.0	16.5	8.0	PT 1/8
	SFMC 08LL-02R	8	14.0	14.0	32.0	20.5	12.0	PT 1/4
	SFMC 10LL-02R	10	17.0	14.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFMC-M (Metric Parallel)

Male Connector

Metric Parallel Thread Type

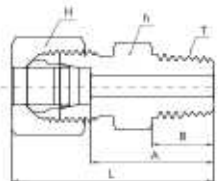


Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	l	L	A	B	T
L Light PN 315	SFMC 06L-M10	6	14.0	14.0	14.0	23.0	8.5	8.0	M10 x 1.0
	SFMC 08L-M12	8	17.0	17.0	17.0	25.0	10.0	12.0	M12 x 1.5
	SFMC 08L-M18	8	17.0	24.0	23.0	26.0	11.5	12.0	M18 x 1.5
	SFMC 10L-M14	10	19.0	19.0	19.0	26.0	11.0	12.0	M14 x 1.5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

SFMC-MK (Metric Tapered)

Male Connector

Metric Tapered Thread Type



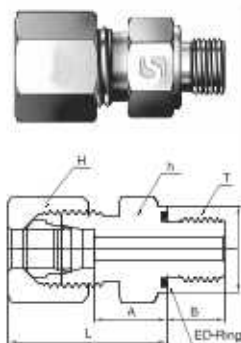
Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	L	A	B	T	
LL Very Light	SFMC 04LL-M06K	4	10	9	26	16	8	M6 x 1keg	
	SFMC 04LL-M08K	4	10	10	26	16	8	M8 x 1keg	
PN 100	SFMC 06LL-M10K	6	12	11	26	14.5	8	M10 x 1keg	
	SFMC 08LL-M10K	8	14	12	28	16.5	8	M10 x 1keg	

All dimensions in millimeters. Dimensions given approximate length with tightened nut

SFMC-GED (BSP Parallel with ED-Ring)

Male Connector with ED-Ring

BSP Parallel Thread Type

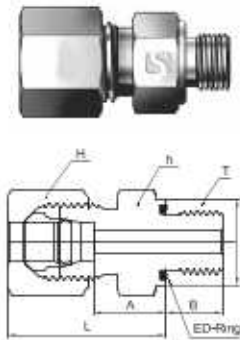


Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	l	L	A	B	T
L Light PN 315	SFMC 06L-01GED	6	14.0	14.0	14.0	23.0	8.5	8.0	PF 1/8
	SFMC 06L-02GED	6	14.0	19.0	19.0	25.0	10.0	12.0	PF 1/4
	SFMC 08L-01GED	8	17.0	14.0	14.0	24.0	9.5	8.0	PF 1/8
	SFMC 08L-02GED	8	17.0	19.0	19.0	25.0	10.0	12.0	PF 1/4
	SFMC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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFMC-MED (Metric Parallel with ED-Ring)

Male Connector with ED-Ring



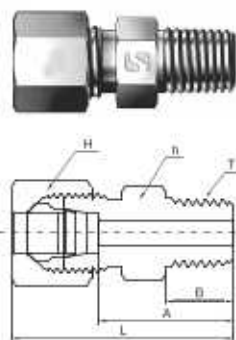
Metric Parallel Thread Type

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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFMC-N (NPT Thread)

Male Connector



NPT Thread Type

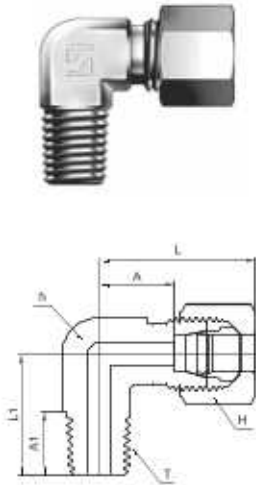
Series	Part Number	Tube O.D.	Dimension (mm)					
			H	h	L	A	B	T
LL Very Light PN 100	SFMC 04LL-01N	4	10.0	11.0	28.0	18.5	9.9	NPT 1/8
	SFMC 06LL-01N	6	12.0	11.0	28.0	16.5	9.9	NPT 1/8
	SFMC 08LL-01N	8	14.0	12.0	30.0	18.5	9.9	NPT 1/8
L Light PN 315	SFMC 06L-01N	6	14.0	12.0	32.0	17.0	9.9	NPT 1/8
	SFMC 06L-02N	6	14.0	17.0	38.0	23.0	14.2	NPT 1/4
	SFMC 08L-02N	8	17.0	17.0	38.0	23.0	14.2	NPT 1/4
	SFMC 10L-02N	10	19.0	17.0	39.0	24.0	14.2	NPT 1/4
	SFMC 10L-03N	10	19.0	19.0	40.0	25.0	14.2	NPT 3/8
	SFMC 12L-02N	12	22.0	19.0	40.0	25.0	14.2	NPT 1/4
	SFMC 12L-03N	12	22.0	19.0	40.0	25.0	14.2	NPT 3/8
	SFMC 12L-04N	12	22.0	22.0	45.0	30.0	19.1	NPT 1/2
	SFMC 15L-04N	15	27.0	24.0	46.0	31.0	19.1	NPT 1/2
SFMC 18L-04N	18	32.0	27.0	48.0	31.5	19.1	NPT 1/2	
PN160	SFMC 22L-06N	22	36.0	32.0	50.0	33.5	19.1	NPT 3/4
	SFMC 28L-08N	28	41.0	41.0	56.0	39.5	23.9	NPT 1
	SFMC 35L-10N	35	50.0	46.0	62.0	40.5	23.9	NPT 1 1/4
	SFMC 42L-12N	42	60.0	55.0	65.0	42.0	25.4	NPT 1 1/2
S Heavy PN 630	SFMC 06S-02N	6	17.0	17.0	43.0	28.0	14.2	NPT 1/4
	SFMC 08S-02N	8	19.0	17.0	43.0	28.0	14.2	NPT 1/4
	SFMC 10S-02N	10	22.0	19.0	44.0	27.5	14.2	NPT 1/4
	SFMC 10S-03N	10	22.0	19.0	44.0	27.5	14.2	NPT 3/8
	SFMC 12S-02N	12	24.0	22.0	46.0	29.5	14.2	NPT 1/4
	SFMC 12S-03N	12	24.0	22.0	46.0	29.5	14.2	NPT 3/8
	SFMC 12S-04N	12	24.0	22.0	51.0	34.5	19.1	NPT 1/2
	SFMC 14S-04N	14	27.0	24.0	54.0	36.0	19.1	NPT 1/2
PN400	SFMC 16S-04N	16	30.0	27.0	54.0	35.5	19.1	NPT 1/2
	SFMC 20S-06N	20	36.0	32.0	59.0	37.5	19.1	NPT 3/4
	SFMC 25S-08N	25	46.0	41.0	69.0	45.0	23.9	NPT 1
	SFMC 30S-10N	30	50.0	46.0	73.0	46.5	23.9	NPT 1 1/4
PN 315	SFMC 38S-12N	38	60.0	55.0	80.0	49.0	25.4	NPT 1 1/2

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFME-R/M (BSP Tapered/Metric Tapered)

Male Elbow

BSP Tapered Thread Type



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

Metric Tapered Thread Type

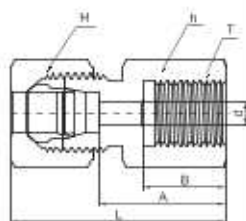
Series	Part Number	Tube O.D.	Dimension (mm)						
			H	h	L	L1	A	A1	T
LL Very Light PN 100	SFME 04LL-M08K	4	10.0	9.0	21.0	17.0	11.0	8.0	M8 x 1.0Keg
	SFME 06LL-M10K	6	12.0	9.0	21.0	17.0	9.5	8.0	M10 x 1.0Keg
	SFME 08LL-M10K	8	14.0	12.0	23.0	20.0	11.5	8.0	M10 x 1.0Keg
Light PN 315	SFME 06L-M10K	6	14.0	12.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFFC-G/M (BSP Parallel/Metric Parallel)

Female Connector

BSP Parallel Thread Type



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

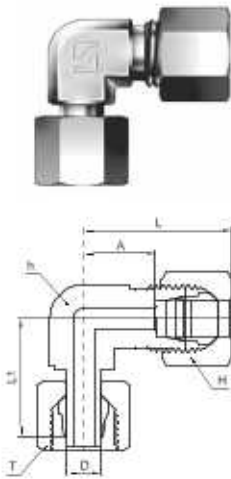
Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)						
			d	H	h	L	A	B	T
L Light PN 315	SFFC06L-M10	6	4.0	14.0	14.0	34.0	19.5	12.5	M10 x 1.0
	SFFC08L-M12	8	6.0	17.0	17.0	39.0	24.0	17.0	M12 x 1.5
	SFFC10L-M14	10	8.0	19.0	19.0	40.0	25.0	17.0	M14 x 1.5
	SFFC12L-M16	12	10.0	22.0	22.0	41.0	26.0	17.0	M16 x 1.5
	SFFC15L-M18	15	12.0	27.0	24.0	43.0	28.0	17.0	M18 x 1.5
	SFFC18L-M22	18	15.0	32.0	30.0	46.0	29.5	19.0	M22 x 1.5
PN 160	SFFC22L-M26	22	19.0	36.0	32.0	51.0	34.5	21.0	M26 x 1.5
	SFFC28L-M33	28	24.0	41.0	41.0	54.0	37.5	24.0	M33 x 2.0
	SFFC35L-M42	35	30.0	50.0	55.0	62.0	40.5	26.0	M42 x 2.0
S Heavy PN 630	SFFC42L-M48	42	36.0	60.0	60.0	65.0	42.0	28.0	M48 x 2.0
	SFFC06S-M12	6	4.0	17.0	17.0	41.0	26.0	17.0	M12 x 1.5
	SFFC08S-M14	8	5.0	19.0	19.0	41.0	26.0	17.0	M14 x 1.5
	SFFC10S-M16	10	7.0	22.0	22.0	43.0	26.5	17.0	M16 x 1.5
	SFFC12S-M18	12	8.0	24.0	24.0	44.0	27.5	17.0	M18 x 1.5
PN 400	SFFC14S-M20	14	10.0	27.0	27.0	49.0	31.0	19.0	M20 x 1.5
	SFFC16S-M22	16	12.0	30.0	30.0	49.0	30.5	19.0	M22 x 1.5
	SFFC20S-M27	20	16.0	36.0	36.0	56.0	34.5	22.0	M27 x 2.0
	SFFC25S-M33	25	20.0	46.0	41.0	61.0	37.0	24.0	M33 x 2.0
PN 315	SFFC30S-M42	30	25.0	50.0	55.0	68.0	41.5	26.0	M42 x 2.0
	SFFC38S-M48	38	32.0	60.0	60.0	74.0	43.0	28.0	M48 x 2.0

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFAE

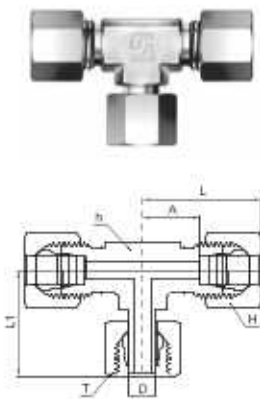
Adjustable Elbow



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

SFABT

Adjustable Branch Tee

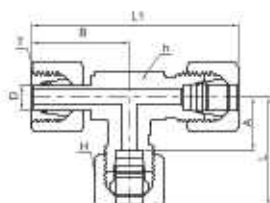


Series	Part Number	Tube O.D.	Dimension (mm)						
			D	H	h	L	L1	A	T
L Light PN 315	SFABT 06L	6	6	14.0	12.0	27.0	26.0	12.0	M12 x 1.5
	SFABT 08L	8	8	17.0	12.0	29.0	27.5	14.0	M14 x 1.5
	SFABT 10L	10	10	19.0	14.0	30.0	29.0	15.0	M16 x 1.5
	SFABT 12L	12	12	22.0	17.0	32.0	29.5	17.0	M18 x 1.5
	SFABT 15L	15	15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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFART

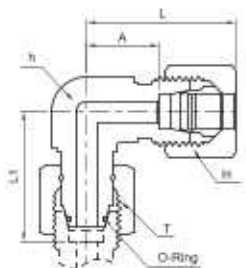
Adjustable Run Tee



Series	Part Number	Tube O.D.	Dimension (mm)							
			D	H	h	L	L1	A	B	T
L Light PN 315	SFART 06L	6	6	14.0	12.0	27.0	53.0	12.0	26.0	M12 x 1.5
	SFART 08L	8	8	17.0	12.0	29.0	56.0	14.0	27.5	M14 x 1.5
	SFART 10L	10	10	19.0	14.0	30.0	59.0	15.0	29.0	M16 x 1.5
	SFART 12L	12	12	22.0	17.0	32.0	62.0	7.0	29.5	M18 x 1.5
	SFART 15L	15	15	27.0	19.0	36.0	69.0	21.0	32.5	M22 x 1.5
	SFART 18L	18	18	32.0	24.0	40.0	75.0	23.5	35.5	M26 x 1.5
PN 160	SFART 22L	22	22	36.0	27.0	44.0	83.0	27.5	38.5	M30 x 2.0
	SFART 28L	28	28	41.0	36.0	47.0	91.0	30.5	41.5	M36 x 2.0
	SFART 35L	35	35	50.0	41.0	56.0	111.0	34.5	51.0	M45 x 2.0
	SFART 42L	42	42	60.0	50.0	63.0	123.0	40.0	56.0	M52 x 2.0
S Heavy PN 630	SFART 06S	6	6	17.0	12.0	31.0	58.0	16.0	27.0	M14 x 1.5
	SFART 08S	8	8	19.0	14.0	32.0	61.0	17.0	27.5	M16 x 1.5
	SFART 10S	10	10	22.0	17.0	34.0	66.0	17.5	30.0	M18 x 1.5
	SFART 12S	12	12	24.0	17.0	38.0	71.0	21.5	31.0	M20 x 1.5
	SFART 14S	14	14	27.0	19.0	40.0	75.0	22.0	35.0	M22 x 1.5
PN 400	SFART 16S	16	16	30.0	24.0	43.0	79.0	24.5	36.5	M24 x 1.5
	SFART 20S	20	20	36.0	27.0	48.0	93.0	26.5	44.5	M30 x 2.0
	SFART 25S	25	25	46.0	36.0	54.0	105.0	30.0	50.0	M36 x 2.0
PN 315	SFART 30S	30	30	50.0	41.0	62.0	119.0	35.5	55.0	M42 x 2.0
	SFART 38S	38	38	60.0	50.0	72.0	138.0	41.0	63.0	M52 x 2.0

SFSE

Swivel Adjustable Elbow

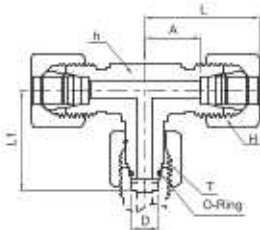


Series	Part Number	Tube O.D.	Dimension (mm)					
			H	h	L	L1	A	T
L Light PN 315	SFSE 06L	6	14.0	12.0	27.0	53.0	12.0	M12 x 1.5
	SFSE 08L	8	17.0	12.0	29.0	56.0	14.0	M14 x 1.5
	SFSE 10L	10	19.0	14.0	30.0	59.0	15.0	M16 x 1.5
	SFSE 12L	12	22.0	17.0	32.0	62.0	7.0	M18 x 1.5
	SFSE 15L	15	27.0	19.0	36.0	69.0	21.0	M22 x 1.5
	SFSE 18L	18	32.0	24.0	40.0	75.0	23.5	M26 x 1.5
PN 160	SFSE 22L	22	36.0	27.0	44.0	83.0	27.5	M30 x 2.0
	SFSE 28L	28	41.0	36.0	47.0	91.0	30.5	M36 x 2.0
	SFSE 35L	35	50.0	41.0	56.0	111.0	34.5	M45 x 2.0
	SFSE 42L	42	60.0	50.0	63.0	123.0	40.0	M52 x 2.0
S Heavy PN 630	SFSE 06S	6	17.0	12.0	31.0	58.0	16.0	M14 x 1.5
	SFSE 08S	8	19.0	14.0	32.0	61.0	17.0	M16 x 1.5
	SFSE 10S	10	22.0	17.0	34.0	66.0	17.5	M18 x 1.5
	SFSE 12S	12	24.0	17.0	38.0	71.0	21.5	M20 x 1.5
	SFSE 14S	14	27.0	19.0	40.0	75.0	22.0	M22 x 1.5
PN 400	SFSE 16S	16	30.0	24.0	43.0	79.0	24.5	M24 x 1.5
	SFSE 20S	20	36.0	27.0	48.0	93.0	26.5	M30 x 2.0
	SFSE 25S	25	46.0	36.0	54.0	105.0	30.0	M36 x 2.0
PN 315	SFSE 30S	30	50.0	41.0	62.0	119.0	35.5	M42 x 2.0
	SFSE 38S	38	60.0	50.0	72.0	138.0	41.0	M52 x 2.0

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFSBT

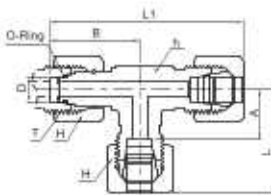
Swivel Adjustable Branch Tee



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

SFSRT

Swivel Adjustable Run Tee

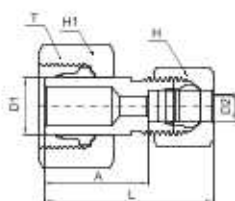


Series	Part Number	Tube O.D. (D)	Dimension (mm)						
			H	h	L	L1	A	B	T
L Light PN 315	SFSRT 06L	6	14.0	12.0	27.0	53.0	12.0	26.0	M12 X1.5
	SFSRT 08L	8	17.0	12.0	29.0	56.0	14.0	27.5	M14 X1.5
	SFSRT 10L	10	19.0	14.0	30.0	59.0	15.0	29.0	M16 X1.5
	SFSRT 12L	12	22.0	17.0	32.0	61.0	17.0	29.5	M18 X1.5
	SFSRT 15L	15	27.0	19.0	36.0	69.0	21.0	32.5	M22 X1.5
	SFSRT 18L	18	32.0	24.0	40.0	75.0	23.5	35.5	M26 X1.5
PN 160	SFSRT 22L	22	36.0	27.0	44.0	82.0	27.5	38.5	M30 X2.0
	SFSRT 28L	28	41.0	36.0	47.0	89.0	30.5	41.5	M36 X2.0
	SFSRT 35L	35	50.0	41.0	56.0	107.0	34.5	51.0	M45 X2.0
	SFSRT 42L	42	60.0	50.0	63.0	119.0	40.0	56.0	M52 X2.0
S Heavy PN 630	SFSRT 06S	6	17.0	12.0	31.0	58.0	16.0	27.0	M14 X1.5
	SFSRT 08S	8	19.0	14.0	32.0	59.0	17.0	27.5	M16 X1.5
	SFSRT 10S	10	22.0	17.0	34.0	64.0	17.5	30.0	M18 X1.5
	SFSRT 12S	12	24.0	17.0	38.0	69.0	21.5	31.0	M20 X1.5
	SFSRT 14S	14	27.0	19.0	40.0	75.0	22.0	35.0	M22 X1.5
	SFSRT 16S	16	30.0	24.0	43.0	79.0	24.5	36.5	M24 X1.5
PN 400	SFSRT 20S	20	36.0	27.0	48.0	93.0	26.5	44.5	M30 X2.0
	SFSRT 25S	25	46.0	36.0	54.0	104.0	30.0	50.0	M36 X2.0
	SFSRT 30S	30	50.0	41.0	62.0	117.0	35.5	55.0	M42 X2.0
PN 315	SFSRT 38S	38	60.0	50.0	72.0	135.0	41.0	63.0	M52 X2.0

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFPR

Standpipe Reducer

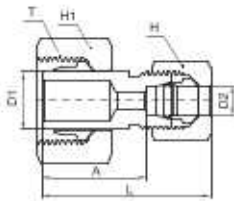


Series	Part Number	Tube O.D.		Dimension (mm)				
		D1	D2	H1	H	L	A	T
L Light PN 315	SFPR 08L-06L	8	6	17.0	14.0	38	23.5	M14 x 1.5
	SFPR 10L-06L	10	6	19.0	14.0	38	23.5	M16 x 1.5
	SFPR 10L-08L	10	8	19.0	17.0	38	23.5	M16 x 1.5
	SFPR 12L-06L	12	6	22.0	14.0	38	23.5	M18 x 1.5
	SFPR 12L-08L	12	8	22.0	17.0	38	23.5	M18 x 1.5
	SFPR 12L-10L	12	10	22.0	19.0	39	24.5	M18 x 1.5
	SFPR 15L-06L	15	6	27.0	14.0	38	23.5	M22 x 1.5
	SFPR 15L-08L	15	8	27.0	17.0	38	23.5	M22 x 1.5
	SFPR 15L-10L	15	10	27.0	19.0	39	24.5	M22 x 1.5
	SFPR 15L-12L	15	12	27.0	22.0	39	24.5	M22 x 1.5
	SFPR 18L-06L	18	6	32.0	14.0	39	24.5	M26 x 1.5
	SFPR 18L-08L	18	8	32.0	17.0	39	24.5	M26 x 1.5
	SFPR 18L-10L	18	10	32.0	19.0	40	25.5	M26 x 1.5
	SFPR 18L-12L	18	12	32.0	22.0	40	25.5	M26 x 1.5
	SFPR 18L-15L	18	15	32.0	27.0	42	26.5	M26 x 1.5
PN 160	SFPR 22L-06L	22	6	36.0	14.0	40	25.5	M30 x 2.0
	SFPR 22L-08L	22	8	36.0	17.0	40	25.5	M30 x 2.0
	SFPR 22L-10L	22	10	36.0	19.0	41	26.5	M30 x 2.0
	SFPR 22L-12L	22	12	36.0	22.0	41	26.5	M30 x 2.0
	SFPR 22L-15L	22	15	36.0	27.0	43	27.5	M30 x 2.0
	SFPR 22L-18L	22	18	36.0	32.0	43	27.0	M30 x 2.0
	SFPR 28L-06L	28	6	41.0	14.0	41	26.5	M36 x 2.0
	SFPR 28L-08L	28	8	41.0	17.0	41	26.5	M36 x 2.0
	SFPR 28L-10L	28	10	41.0	19.0	42	27.5	M36 x 2.0
	SFPR 28L-12L	28	12	41.0	22.0	42	27.5	M36 x 2.0
	SFPR 28L-15L	28	15	41.0	27.0	44	28.5	M36 x 2.0
	SFPR 28L-18L	28	18	41.0	32.0	44	28.0	M36 x 2.0
	SFPR 28L-22L	28	22	41.0	36.0	46	30.0	M36 x 2.0
	SFPR 35L-06L	35	6	50.0	14.0	46	31.5	M45 x 2.0
	SFPR 35L-08L	35	8	50.0	17.0	46	31.5	M45 x 2.0
	SFPR 35L-10L	35	10	50.0	19.0	47	32.5	M45 x 2.0
	SFPR 35L-12L	35	12	50.0	22.0	47	32.5	M45 x 2.0
	SFPR 35L-15L	35	15	50.0	27.0	49	33.5	M45 x 2.0
	SFPR 35L-18L	35	18	50.0	32.0	49	33.0	M45 x 2.0
	SFPR 35L-22L	35	22	50.0	36.0	51	35.0	M45 x 2.0
	SFPR 35L-28L	35	28	50.0	41.0	52	35.0	M45 x 2.0
SFPR 42L-10L	42	10	60.0	19.0	48	33.5	M52 x 2.0	
SFPR 42L-12L	42	12	60.0	22.0	48	33.5	M52 x 2.0	
SFPR 42L-15L	42	15	60.0	27.0	50	34.5	M52 x 2.0	
SFPR 42L-18L	42	18	60.0	32.0	50	34.0	M52 x 2.0	
SFPR 42L-22L	42	22	60.0	36.0	52	36.0	M52 x 2.0	
SFPR 42L-28L	42	28	60.0	41.0	53	36.0	M52 x 2.0	
SFPR 42L-35L	42	35	60.0	50.0	57	35.0	M52 x 2.0	

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFPR

Standpipe Reducer

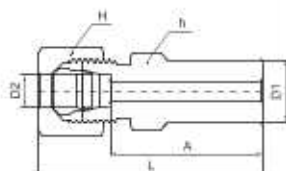


Series	Part Number	Tube O.D.		Dimension (mm)				
		D1	D2	H1	H	L	A	T
S Heavy PN 630	SFPR08S-06S	8	6	19.0	17.0	40.0	25.0	M16 x 1.5
	SFPR10S-06S	10	6	22.0	17.0	41.0	26.0	M18 x 1.5
	SFPR10S-08S	10	8	22.0	19.0	41.0	26.0	M18 x 1.5
	SFPR12S-06S	12	6	24.0	17.0	42.0	27.0	M20 x 1.5
	SFPR12S-08S	12	8	24.0	19.0	42.0	27.0	M20 x 1.5
	SFPR12S-10S	12	10	24.0	22.0	43.0	26.5	M20 x 1.5
	SFPR14S-06S	14	6	27.0	17.0	44.0	29.0	M22 x 1.5
	SFPR14S-08S	14	8	27.0	19.0	44.0	29.0	M22 x 1.5
	SFPR14S-10S	14	10	27.0	22.0	45.0	28.5	M22 x 1.5
	SFPR14S-12S	14	12	27.0	24.0	45.0	28.5	M22 x 1.5
PN 400	SFPR16S-06S	16	6	30.0	17.0	44.0	29.0	M24 x 1.5
	SFPR16S-08S	16	8	30.0	19.0	44.0	29.0	M24 x 1.5
	SFPR16S-10S	16	10	30.0	22.0	45.0	28.5	M24 x 1.5
	SFPR16S-12S	16	12	30.0	24.0	45.0	28.5	M24 x 1.5
	SFPR16S-14S	16	14	30.0	27.0	48.0	30.0	M24 x 1.5
	SFPR20S-06S	20	6	36.0	17.0	49.0	34.0	M30 x 2.0
	SFPR20S-08S	20	8	36.0	19.0	49.0	34.0	M30 x 2.0
	SFPR20S-10S	20	10	36.0	22.0	50.0	33.5	M30 x 2.0
	SFPR20S-12S	20	12	36.0	24.0	50.0	33.5	M30 x 2.0
	SFPR20S-14S	20	14	36.0	27.0	53.0	35.0	M30 x 2.0
	SFPR20S-16S	20	16	36.0	30.0	53.0	34.5	M30 x 2.0
	SFPR25S-06S	25	6	46.0	17.0	52.0	37.0	M36 x 2.0
	SFPR25S-08S	25	8	46.0	19.0	52.0	37.0	M36 x 2.0
	SFPR25S-10S	25	10	46.0	22.0	53.0	36.5	M36 x 2.0
	SFPR25S-12S	25	12	46.0	24.0	53.0	6.5	M36 x 2.0
	SFPR25S-14S	25	14	46.0	27.0	55.0	37.0	M36 x 2.0
	SFPR25S-16S	25	16	46.0	30.0	55.0	36.5	M36 x 2.0
	SFPR25S-20S	25	20	46.0	36.0	59.0	37.5	M36 x 2.0
PN 315	SFPR30S-06S	30	6	50.0	17.0	54.0	39.0	M42 x 2.0
	SFPR30S-08S	30	8	50.0	19.0	54.0	39.0	M42 x 2.0
	SFPR30S-10S	30	10	50.0	22.0	55.0	38.5	M42 x 2.0
	SFPR30S-12S	30	12	50.0	24.0	55.0	38.5	M42 x 2.0
	SFPR30S-14S	30	14	50.0	27.0	58.0	40.0	M42 x 2.0
	SFPR30S-16S	30	16	50.0	30.0	58.0	39.5	M42 x 2.0
	SFPR30S-20S	30	20	50.0	36.0	61.0	39.5	M42 x 2.0
	SFPR30S-25S	30	25	50.0	46.0	64.0	40.0	M42 x 2.0
	SFPR38S-06S	38	6	60.0	17.0	58.0	43.0	M52 x 2.0
	SFPR38S-08S	38	8	60.0	19.0	58.0	43.0	M52 x 2.0
SFPR38S-10S	38	10	60.0	22.0	59.0	42.5	M52 x 2.0	
SFPR38S-12S	38	12	60.0	24.0	59.0	42.5	M52 x 2.0	
SFPR38S-14S	38	14	60.0	27.0	62.0	44.0	M52 x 2.0	
SFPR38S-16S	38	16	60.0	30.0	62.0	43.5	M52 x 2.0	
SFPR38S-20S	38	20	60.0	36.0	65.0	43.5	M52 x 2.0	
SFPR38S-25S	38	25	60.0	46.0	68.0	44.0	M52 x 2.0	
SFPR38S-30S	38	30	60.0	50.0	71.0	44.5	M52 x 2.0	

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFR

Reducer

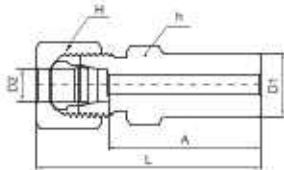


Series	Part Number	Tube O.D.		Dimension (mm)			
		D1	D2	H	h	L	A
L Light PN 315	SFR 08L-06L	8	6	14.0	12.0	40.0	25.5
	SFR 10L-06L	10	6	14.0	12.0	42.0	27.5
	SFR 10L-08L	10	8	17.0	14.0	43.0	27.5
	SFR 12L-06L	12	6	14.0	14.0	42.0	27.5
	SFR 12L-08L	12	8	17.0	14.0	43.0	27.5
	SFR 12L-10L	12	10	19.0	17.0	44.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFR

Reducer

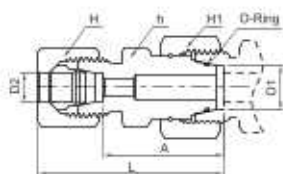


Series	Part Number	Tube O.D.		Dimension (mm)			
		D1	D2	H	h	L	A
S Heavy PN 630	SFR08S-06S	8	6	17.0	14.0	43.0	28.0
	SFR10S-06S	10	6	17.0	14.0	45.0	30.5
	SFR10S-08S	10	8	19.0	17.0	45.0	30.5
	SFR12S-06S	12	6	17.0	14.0	47.0	32.5
	SFR12S-08S	12	8	19.0	17.0	47.0	32.5
	SFR12S-10S	12	10	22.0	19.0	48.0	32.0
	SFR14S-06S	14	6	17.0	17.0	51.0	36.5
	SFR14S-08S	14	8	19.0	17.0	51.0	36.5
	SFR14S-10S	14	10	22.0	19.0	52.0	36.0
	SFR14S-12S	14	12	24.0	22.0	52.0	36.0
	SFR16S-06S	16	6	17.0	17.0	53.0	38.5
	SFR16S-08S	16	8	19.0	17.0	53.0	38.5
	SFR16S-10S	16	10	22.0	19.0	54.0	38.0
	SFR16S-12S	16	12	24.0	22.0	55.0	38.5
SFR16S-14S	16	14	27.0	22.0	57.0	39.5	
PN 400	SFR20S-06S	20	6	17.0	22.0	58.0	43.0
	SFR20S-08S	20	8	19.0	22.0	58.0	43.0
	SFR20S-10S	20	10	22.0	22.0	59.0	42.5
	SFR20S-12S	20	12	24.0	22.0	59.0	42.5
	SFR20S-14S	20	14	27.0	22.0	62.0	44.0
	SFR20S-16S	20	16	30.0	24.0	62.0	43.5
	SFR25S-06S	25	6	17.0	27.0	62.0	47.5
	SFR25S-08S	25	8	19.0	27.0	62.0	47.5
	SFR25S-10S	25	10	22.0	27.0	63.0	47.0
	SFR25S-12S	25	12	24.0	27.0	63.0	47.0
	SFR25S-14S	25	14	27.0	27.0	66.0	48.5
	SFR25S-16S	25	16	30.0	27.0	66.0	48.0
	SFR25S-20S	25	20	36.0	30.0	70.0	48.0
	SFR30S-06S	30	6	17.0	32.0	67.0	52.0
	SFR30S-08S	30	8	19.0	32.0	67.0	52.0
	SFR30S-10S	30	10	22.0	32.0	68.0	51.5
	SFR30S-12S	30	12	24.0	32.0	68.0	51.5
	SFR30S-14S	30	14	27.0	32.0	71.0	53.0
SFR30S-16S	30	16	30.0	32.0	71.0	52.5	
SFR30S-20S	30	20	36.0	32.0	74.0	52.5	
SFR30S-25S	30	25	46.0	36.0	77.0	53.0	
PN315	SFR38S-06S	38	6	17.0	41.0	72.0	57.0
	SFR38S-08S	38	8	19.0	41.0	72.0	57.0
	SFR38S-10S	38	10	22.0	41.0	73.0	56.5
	SFR38S-12S	38	12	24.0	41.0	73.0	56.5
	SFR38S-14S	38	14	27.0	41.0	76.0	58.0
	SFR38S-16S	38	16	30.0	41.0	76.0	57.5
	SFR38S-20S	38	20	36.0	41.0	79.0	57.5
	SFR38S-25S	38	25	46.0	41.0	82.0	58.0
SFR38S-30S	38	30	50.0	46.0	89.0	58.5	

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFSRA

Swivel Reducing Adaptor

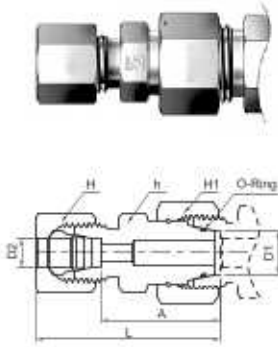


Series	Part Number	Tube O.D.		Dimension (mm)				
		D1	D2	H1	H	h	L	A
L Light PN 315	SFSRA 08L-06L	8	6	17.0	14.0	14.0	39.0	24.5
	SFSRA 10L-06L	10	6	19.0	14.0	17.0	39.5	24.5
	SFSRA 10L-08L	10	8	19.0	17.0	17.0	39.5	24.5
	SFSRA 12L-06L	12	6	22.0	14.0	17.0	40.0	25.0
	SFSRA 12L-08L	12	8	22.0	17.0	17.0	40.0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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

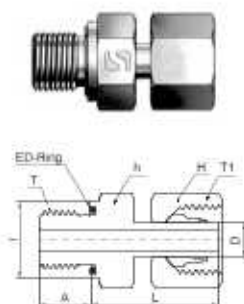
SFSRA

Swivel Reducing Adaptor



Series	Part Number	Tube O.D.		Dimension (mm)				
		D1	D2	H1	H	h	L	A
S Heavy PN 630	SFSRA 08S-06S	8	6	19.0	17.0	17.0	44.0	28.0
	SFSRA 10S-06S	10	6	22.0	17.0	17.0	44.0	29.5
	SFSRA 10S-08S	10	8	22.0	19.0	17.0	44.0	29.5
	SFSRA 12S-06S	12	6	24.0	17.0	19.0	45.0	30.0
	SFSRA 12S-08S	12	8	24.0	19.0	19.0	45.0	30.0
	SFSRA 12S-10S	12	10	24.0	22.0	19.0	46.0	29.5
	SFSRA 14S-06S	14	6	27.0	17.0	22.0	47.5	33.0
	SFSRA 14S-08S	14	8	27.0	19.0	22.0	47.5	33.0
	SFSRA 14S-10S	14	10	27.0	22.0	22.0	48.5	32.5
	SFSRA 14S-12S	14	12	27.0	24.0	22.0	48.5	32.5
	SFSRA 16S-06S	16	6	30.0	17.0	24.0	50.0	35.0
	SFSRA 16S-08S	16	8	30.0	19.0	24.0	50.0	35.0
	SFSRA 16S-10S	16	10	30.0	22.0	24.0	51.0	34.5
	SFSRA 16S-12S	16	12	30.0	24.0	24.0	51.0	34.5
	SFSRA 16S-14S	16	14	30.0	27.0	24.0	54.0	36.0
PN 400	SFSRA 20S-06S	20	6	36.0	17.0	28.5	54.0	39.0
	SFSRA 20S-08S	20	8	36.0	19.0	28.5	54.0	39.0
	SFSRA 20S-10S	20	10	36.0	22.0	28.5	55.0	38.5
	SFSRA 20S-12S	20	12	36.0	24.0	28.5	55.0	38.5
	SFSRA 20S-14S	20	14	36.0	27.0	28.5	58.0	40.0
	SFSRA 20S-16S	20	16	36.0	30.0	28.5	58.0	39.5
	SFSRA 25S-06S	25	6	46.0	17.0	36.0	58.0	43.5
	SFSRA 25S-08S	25	8	46.0	19.0	36.0	58.0	43.5
	SFSRA 25S-10S	25	10	46.0	22.0	36.0	59.0	43.0
	SFSRA 25S-12S	25	12	46.0	24.0	36.0	59.0	43.0
	SFSRA 25S-14S	25	14	46.0	27.0	36.0	62.0	44.5
	SFSRA 25S-16S	25	16	46.0	30.0	36.0	62.0	44.0
	SFSRA 25S-20S	25	20	46.0	36.0	36.0	66.0	44.0
	SFSRA 30S-06S	30	6	50.0	17.0	41.0	66.0	51.0
	SFSRA 30S-08S	30	8	50.0	19.0	41.0	66.0	51.0
	SFSRA 30S-10S	30	10	50.0	22.0	41.0	67.0	50.5
	SFSRA 30S-12S	30	12	50.0	24.0	41.0	67.0	50.5
	SFSRA 30S-14S	30	14	50.0	27.0	41.0	70.0	52.0
SFSRA 30S-16S	30	16	50.0	30.0	41.0	70.0	51.5	
SFSRA 30S-20S	30	20	50.0	36.0	41.0	73.0	51.5	
SFSRA 30S-25S	30	25	50.0	46.0	41.0	76.0	52.0	
PN315	SFSRA 38S-06S	38	6	60.0	17.0	50.0	70.5	56.0
	SFSRA 38S-08S	38	8	60.0	19.0	50.0	70.5	56.0
	SFSRA 38S-10S	38	10	60.0	22.0	50.0	71.5	55.5
	SFSRA 38S-12S	38	12	60.0	24.0	50.0	71.5	55.5
	SFSRA 38S-14S	38	14	60.0	27.0	50.0	74.5	57.0
	SFSRA 38S-16S	38	16	60.0	30.0	50.0	74.5	56.5
	SFSRA 38S-20S	38	20	60.0	36.0	50.0	78.5	56.5
	SFSRA 38S-25S	38	25	60.0	46.0	50.0	81.5	57.0
	SFSRA 38S-30S	38	30	60.0	50.0	50.0	85.5	58.5

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFA-GED/MED (BSP Parallel/Metric Parallel with ED-Ring)
Adaptor

BSP Parallel Thread Type

Series	Part Number	Tube O.D. (D)	Dimension (mm)						
			H	h	l	L	A	T	T1
L Light PN315	SFA06L-01GED	6	14.0	14.0	14.0	24.5	8.0	PF 1/8	M12 X 1.5
	SFA08L-02GED	8	17.0	19.0	19.0	29.5	12.0	PF 1/4	M14 X 1.5
	SFA10L-02GED	10	19.0	19.0	19.0	27.5	12.0	PF 1/4	M16 X 1.5
	SFA12L-03GED	12	22.0	22.0	22.0	34.0	12.0	PF 3/8	M18 X 1.5
	SFA15L-04GED	15	27.0	27.0	27.0	32.0	14.0	PF 1/2	M22 X 1.5
	SFA18L-04GED	18	32.0	27.0	27.0	31.5	14.0	PF 1/2	M26 X 1.5
PN 160	SFA22L-06GED	22	36.0	32.0	32.0	32.5	16.0	PF 3/4	M30 X 2.0
	SFA28L-08GED	28	41.0	41.0	40.0	35.0	18.0	PF 1	M36 X 2.0
	SFA35L-10GED	35	50.0	50.0	50.0	42.5	20.0	PF 1 1/4	M45 X 2.0
	SFA42L-12GED	42	60.0	55.0	55.0	46.5	22.0	PF 1 1/2	M52 X 2.0
S Heavy PN 630	SFA06S-02GED	6	17.0	19.0	19.0	27.0	12.0	PF 1/4	M14 X 1.5
	SFA08S-02GED	8	19.0	19.0	19.0	29.5	12.0	PF 1/4	M16 X 1.5
	SFA10S-03GED	10	22.0	22.0	22.0	32.0	12.0	PF 3/8	M18 X 1.5
	SFA12S-03GED	12	24.0	22.0	22.0	34.0	12.0	PF 3/8	M20 X 1.5
	SFA12S-04GED	12	24.0	27.0	27.0	34.5	14.0	PF 1/2	M20 X 1.5
	SFA14S-04GED	14	27.0	27.0	27.0	36.5	14.0	PF 1/2	M22 X 1.5
PN 400	SFA16S-04GED	16	30.0	27.0	27.0	37.0	14.0	PF 1/2	M24 X 1.5
	SFA16S-06GED	16	30.0	32.0	32.0	39.0	16.0	PF 3/4	M24 X 1.5
	SFA20S-06GED	20	36.0	32.0	32.0	43.0	16.0	PF 3/4	M30 X 2.0
	SFA25S-08GED	25	46.0	41.0	40.0	48.0	18.0	PF 1	M36 X 2.0
	SFA30S-10GED	30	50.0	50.0	50.0	51.0	20.0	PF 1 1/4	M42 X 2.0
PN 315	SFA38S-12GED	38	60.0	55.0	55.0	60.0	22.0	PF 1 1/2	M52 X 2.0

Metric Parallel Thread Type

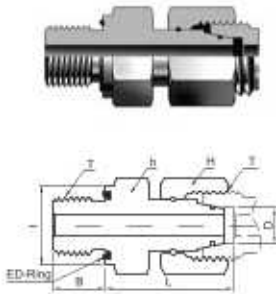
Series	Part Number	Tube O.D. (D)	Dimension (mm)						
			H	h	l	L	A	T	T1
L Light PN315	SFA 06L-M10ED	6	14.0	14.0	14.0	24.5	8.0	M10 X 1.0	M12 X 1.5
	SFA 08L-M12ED	8	17.0	17.0	17.0	26.5	12.0	M12 X 1.5	M14 X 1.5
	SFA 10L-M14ED	10	19.0	19.0	19.0	27.5	12.0	M14 X 1.5	M16 X 1.5
	SFA 12L-M16ED	12	22.0	22.0	22.0	30.5	12.0	M16 X 1.5	M18 X 1.5
	SFA 15L-M18ED	15	27.0	24.0	24.0	31.5	14.0	M18 X 1.5	M22 X 1.5
	SFA 18L-M22ED	18	32.0	27.0	27.0	31.5	14.0	M22 X 1.5	M26 X 1.5
PN 160	SFA 22L-M26ED	22	36.0	32.0	32.0	32.5	16.0	M26 X 1.5	M30 X 2.0
	SFA 28L-M33ED	28	41.0	41.0	40.0	35.0	18.0	M33 X 2.0	M36 X 2.0
	SFA 35L-M42ED	35	50.0	50.0	50.0	42.5	20.0	M42 X 2.0	M45 X 2.0
	SFA 42L-M48ED	42	60.0	55.0	55.0	46.5	22.0	M48 X 2.0	M52 X 2.0
S Heavy PN 630	SFA 06S-M12ED	6	17.0	17.0	17.0	27.0	12.0	M12 X 1.5	M14 X 1.5
	SFA 08S-M14ED	8	19.0	19.0	19.0	29.5	12.0	M14 X 1.5	M16 X 1.5
	SFA 10S-M16ED	10	22.0	22.0	22.0	32.0	12.0	M16 X 1.5	M18 X 1.5
	SFA 12S-M18ED	12	24.0	24.0	24.0	34.0	12.0	M18 X 1.5	M20 X 1.5
	SFA 14S-M20ED	14	27.0	27.0	27.0	36.5	14.0	M20 X 1.5	M22 X 1.5
PN 400	SFA 16S-M22ED	16	30.0	27.0	27.0	37.0	14.0	M22 X 1.5	M24 X 1.5
	SFA 20S-M27ED	20	36.0	32.0	32.0	43.0	16.0	M27 X 2.0	M30 X 2.0
	SFA 25S-M33ED	25	46.0	41.0	40.0	48.0	18.0	M33 X 2.0	M36 X 2.0
	SFA 30S-M42ED	30	50.0	50.0	50.0	51.0	20.0	M42 X 2.0	M42 X 2.0
PN 315	SFA 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. Dimensions given approximate length with tightened nut.

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

Swive | Adaptor

BSP Parallel Thread Type



Series	Part Number	Tube O.D. (D)	Dimension (mm)						
			H	h	I	L	A	T	T1
L Light PN315	SFSA06L-01GED	6	14.0	14.0	14.0	24.5	8.0	PF 1/8	M12 x 1.5
	SFSA08L-02GED	8	17.0	19.0	19.0	29.5	12.0	PF 1/4	M14 x 1.5
	SFSA10L-02GED	10	19.0	19.0	19.0	27.5	12.0	PF 1/4	M16 x 1.5
	SFSA12L-03GED	12	22.0	22.0	22.0	34.0	12.0	PF 3/8	M18 x 1.5
	SFSA15L-04GED	15	27.0	27.0	27.0	32.0	14.0	PF 1/2	M22 x 1.5
	SFSA18L-04GED	18	32.0	27.0	27.0	31.5	14.0	PF 1/2	M26 x 1.5
PN 160	SFSA22L-06GED	22	36.0	32.0	32.0	32.5	16.0	PF 3/4	M30 x 2.0
	SFSA28L-08GED	28	41.0	41.0	40.0	35.0	18.0	PF 1	M36 x 2.0
	SFSA35L-10GED	35	50.0	50.0	50.0	42.5	20.0	PF 1 1/4	M45 x 2.0
	SFSA42L-12GED	42	60.0	55.0	55.0	46.5	22.0	PF 1 1/2	M52 x 2.0
S Heavy PN 630	SFSA06S-02GED	6	17.0	19.0	19.0	27.0	12.0	PF 1/4	M14 x 1.5
	SFSA08S-02GED	8	19.0	19.0	19.0	29.5	12.0	PF 1/4	M16 x 1.5
	SFSA10S-03GED	10	22.0	22.0	22.0	32.0	12.0	PF 3/8	M18 x 1.5
	SFSA12S-03GED	12	24.0	22.0	22.0	34.0	12.0	PF 3/8	M20 x 1.5
	SFSA14S-04GED	14	27.0	27.0	27.0	36.5	14.0	PF 1/2	M22 x 1.5
PN 400	SFSA16S-04GED	16	30.0	27.0	27.0	37.0	14.0	PF 1/2	M24 x 1.5
	SFSA20S-06GED	20	36.0	32.0	32.0	43.0	16.0	PF 3/4	M30 x 2.0
	SFSA25S-08GED	25	46.0	41.0	40.0	48.0	18.0	PF 1	M36 x 2.0
PN 315	SFSA30S-10GED	30	50.0	50.0	50.0	51.0	20.0	PF 1 1/4	M42 x 2.0
	SFSA38S-12GED	38	60.0	55.0	55.0	60.0	22.0	PF 1 1/2	M52 x 2.0

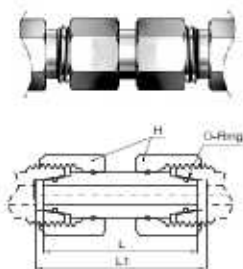
Metric Parallel Thread Type

Series	Part Number	Tube O.D. (D)	Dimension (mm)						
			H	h	I	L	A	T	T1
L Light PN315	SFSA 06L-M10ED	6	14.0	14.0	14.0	24.5	8.0	M10 x 1.0	M12 x 1.5
	SFSA 08L-M12ED	8	17.0	19.0	17.0	26.5	12.0	M12 x 1.5	M14 x 1.5
	SFSA 10L-M14ED	10	19.0	19.0	19.0	27.5	12.0	M14 x 1.5	M16 x 1.5
	SFSA 12L-M16ED	12	22.0	22.0	22.0	30.5	12.0	M16 x 1.5	M18 x 1.5
	SFSA 15L-M18ED	15	27.0	24.0	24.0	31.5	12.0	M18 x 1.5	M22 x 1.5
	SFSA 18L-M22ED	18	32.0	27.0	27.0	31.5	14.0	M22 x 1.5	M26 x 1.5
PN 160	SFSA 22L-M26ED	22	36.0	32.0	32.0	32.5	16.0	M26 x 1.5	M30 x 2.0
	SFSA 28L-M33ED	28	41.0	41.0	40.0	35.0	18.0	M33 x 2.0	M36 x 2.0
	SFSA 35L-M42ED	35	50.0	50.0	50.0	42.5	20.0	M42 x 2.0	M45 x 2.0
	SFSA 42L-M48ED	42	60.0	55.0	55.0	46.5	22.0	M48 x 2.0	M52 x 2.0
S Heavy PN 630	SFSA 06S-M12ED	6	17.0	17.0	17.0	27.0	12.0	M12 x 1.5	M14 x 1.5
	SFSA 08S-M14ED	8	19.0	19.0	19.0	29.5	12.0	M14 x 1.5	M16 x 1.5
	SFSA 10S-M16ED	10	22.0	22.0	22.0	32.0	12.0	M16 x 1.5	M18 x 1.5
	SFSA 12S-M18ED	12	24.0	24.0	24.0	34.0	12.0	M18 x 1.5	M20 x 1.5
	SFSA 14S-M20ED	14	27.0	27.0	26.0	36.5	14.0	M20 x 1.5	M22 x 1.5
PN 400	SFSA 16S-M22ED	16	30.0	27.0	27.0	37.0	14.0	M22 x 1.5	M24 x 1.5
	SFSA 20S-M27ED	20	36.0	32.0	32.0	43.0	16.0	M27 x 2.0	M30 x 2.0
	SFSA 25S-M33ED	25	46.0	41.0	40.0	48.0	18.0	M33 x 2.0	M36 x 2.0
PN 315	SFSA 30S-M42ED	30	50.0	50.0	50.0	51.0	20.0	M42 x 2.0	M45 x 2.0
	SFSA 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. Dimensions given approximate length with tightened nut.

SFSU

Swivel Union

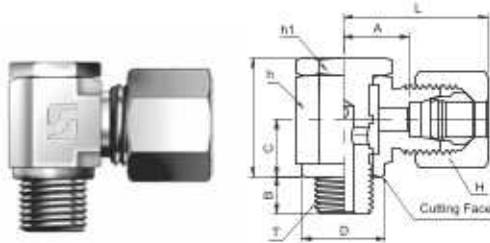
**BSP Parallel
Thread Type**

Series	Part Number	Tube O.D.	Dimension (mm)		
			H	L	L1
L	SFSU-06L	6	17.0	34.0	36.0
Light	SFSU-08L	8	17.0	34.0	36.0
PN500	SFSU-10L	10	19.0	36.0	37.0
PN 400	SFSU-12L	12	22.0	36.0	37.0
	SFSU-15L	15	27.0	39.0	40.0
	SFSU-18L	18	32.0	40.5	42.5
PN 250	SFSU-22L	22	36.0	45.0	47.0
	SFSU-28L	28	46.0	47.0	49.0
	SFSU-35L	35	50.0	53.0	58.0
	SFSU-42L	42	60.0	53.0	59.0
S	SFSU-06S	6	17.0	37.0	39.0
Heavy	SFSU-08S	8	19.0	37.0	39.0
PN 800	SFSU-10S	10	22.0	41.0	43.0
PN 630	SFSU-12S	12	24.0	43.0	44.0
	SFSU-14S	14	27.0	45.0	48.0
	SFSU-16S	16	30.0	46.0	50.0
PN 400	SFSU-20S	20	36.0	55.0	60.0
	SFSU-25S	25	46.0	58.0	66.0
	SFSU-30S	30	50.0	62.0	73.0
PN 315	SFSU-38S	38	60.0	67.0	83.0

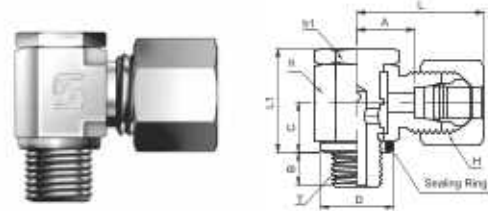
All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFBE-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 (mm)									
			D	H	h	h1	L	L1	A	B	C	T
L Light PN 250	SFBE 06L-01G	6	14.5	14.0	14.0	14.0	25.0	21.0	10.5	6.0	10.0	PF 1/8
	SFBE 08L-02G	8	18.5	17.0	19.0	19.0	28.0	27.0	13.0	9.0	13.0	PF 1/4
	SFBE 10L-02G	10	18.5	19.0	19.0	19.0	29.0	27.0	14.0	9.0	13.0	PF 1/4
	SFBE 12L-03G	12	22.5	22.0	22.0	22.0	30.0	32.0	15.5	9.0	15.0	PF 3/8
	SFBE 15L-04G	15	26.5	27.0	27.0	27.0	34.0	37.5	19.0	11.0	18.0	PF 1/2
PN 160	SFBE 18L-04G	18	26.0	32.0	30.0	27.0	37.0	44.0	20.5	11.0	21.5	PF 1/2
	SFBE 22L-06G	22	32.0	36.0	36.0	32.0	42.0	49.0	25.5	13.0	24.0	PF 3/4
S Heavy PN 250	SFBE 06S-02G	6	18.5	17.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	PF 1/4
	SFBE 08S-02G	8	18.5	19.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	PF 1/4
	SFBE 10S-03G	10	22.5	22.0	22.0	22.0	32.0	32.0	16.0	9.0	15.0	PF 3/8
	SFBE 12S-03G	12	22.5	24.0	24.0	24.0	33.0	37.0	17.0	9.0	18.0	PF 3/8
	SFBE 14S-04G	14	26.5	27.0	27.0	27.0	38.0	37.0	20.0	11.0	18.0	PF 1/2
PN 160	SFBE 16S-04G	16	26.0	30.0	30.0	27.0	40.0	44.0	21.5	11.0	21.5	PF 1/2
	SFBE 20S-06G	20	32.0	36.0	36.0	32.0	46.0	49.0	24.5	13.0	24.0	PF 3/4

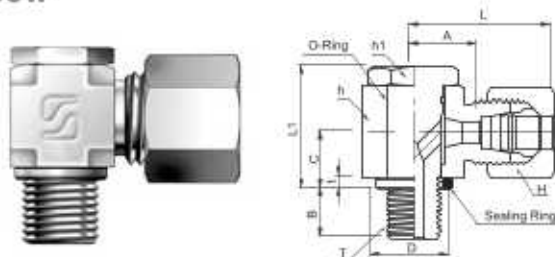
Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)									
			D	H	h	h1	L	L1	A	B	C	T
L Light PN 250	SFBE 06L-M10	6	14.5	14.0	14.0	14.0	25.0	21.5	10.5	6.0	10.0	M10 X1.0
	SFBE 08L-M12	8	17.5	17.0	17.0	17.0	27.0	25.0	12.0	9.0	12.0	M12 X1.5
	SFBE 10L-M14	10	19.5	19.0	19.0	19.0	29.0	27.0	14.0	9.0	13.0	M14 X1.5
	SFBE 12L-M16	12	21.5	22.0	22.0	22.0	30.0	32.0	15.5	9.0	15.0	M16 X1.5
	SFBE 15L-M18	15	23.5	27.0	24.0	24.0	33.0	37.5	17.5	9.0	18.0	M18 X1.5
PN 160	SFBE 18L-M22	18	27.0	32.0	30.0	27.0	37.0	44.0	20.5	11.0	21.5	M22 X1.5
	SFBE 22L-M26	22	31.0	36.0	36.0	32.0	42.0	49.0	25.5	13.0	24.0	M26 X1.5
S Heavy PN 250	SFBE 06S-M12	6	17.5	17.0	17.0	17.0	29.0	25.0	14.0	9.0	12.0	M12 X1.5
	SFBE 08S-M14	8	19.5	19.0	19.0	19.0	30.0	27.0	15.0	9.0	13.0	M14 X1.5
	SFBE 10S-M16	10	21.5	22.0	22.0	22.0	32.0	32.0	16.0	9.0	15.0	M16 X1.5
	SFBE 12S-M18	12	23.5	24.0	24.0	24.0	33.0	37.0	17.0	9.0	18.0	M18 X1.5
	SFBE 14S-M20	14	25.5	27.0	27.0	27.0	38.0	37.0	20.0	11.0	18.0	M20 X1.5
PN 160	SFBE 16S-M22	16	27.0	30.0	30.0	27.0	40.0	44.0	21.5	11.0	21.5	M22 X1.5
	SFBE 20S-M27	20	32.0	36.0	36.0	32.0	46.0	49.0	24.5	13.0	24.0	M27 X2.0

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFHBE - G/M (BSP Parallel/Metric Parallel)

High Pressure Banjo Elbow



BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)										
			D	H	h	h1	L	L1	A	B	C	t	T
L Light PN 315	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
PN 160	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
S Heavy PN 400	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
PN 250	SFHBE 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
	SFHBE 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
	SFHBE 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
SFHBE 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	

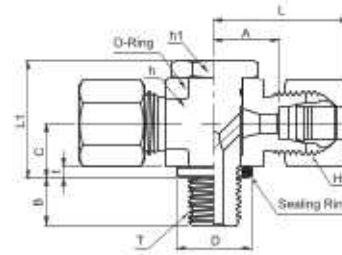
Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)										
			D	H	h	h1	L	L1	A	B	C	t	T
L Light PN 315	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
PN 160	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
S Heavy PN 400	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
	SFHBE 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
PN 160	SFHBE 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
	SFHBE 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
	SFHBE 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. Dimensions given approximate length with tightened nut.

SFHBT-G/M (BSP Parallel/Metric Parallel)

High Pressure Banjo Tee



BSP Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)										
			D	H	h	h1	L	L1	A	B	C	t	T
L Light PN315	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
PN160	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
S Heavy PN400	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
PN250	SFHBT 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
	SFHBT 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
	SFHBT 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
PN250	SFHBT 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
	SFHBT 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

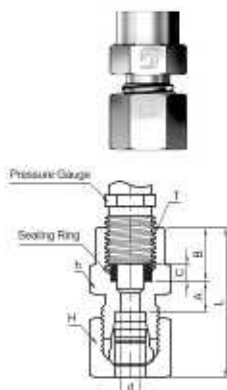
Metric Parallel Thread Type

Series	Part Number	Tube O.D.	Dimension (mm)										
			D	H	h	h1	L	L1	A	B	C	t	T
L Light PN315	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
PN160	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
S Heavy PN400	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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
PN250	SFHBT 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
	SFHBT 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
	SFHBT 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
	SFHBT 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. Dimensions given approximate length with tightened nut.

SFGC-G (BSP Parallel)

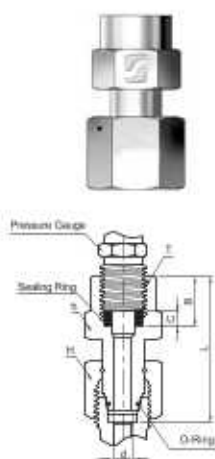
Pressure Gauge Connector



Series	Part Number	Tube O.D.	Dimension (mm)							
			d	H	h	L	A	B	C	T
L Light PN 315	SFGC06L-02G	6	2.5	14.0	19.0	37.0	7.5	14.5	4.5	PF 1/4
	SFGC08L-02G	8	5.5	17.0	19.0	37.0	7.5	14.5	4.5	PF 1/4
	SFGC10L-02G	10	5.5	19.0	19.0	38.0	8.5	14.5	4.5	PF 1/4
	SFGC12L-02G	12	5.5	22.0	19.0	38.0	8.5	14.5	4.5	PF 1/4
S Heavy PN 630	SFGC06S-04G	6	3.5	17.0	27.0	46.0	11.0	20.0	5.0	PF 1/2
	SFGC08S-04G	8	3.5	19.0	27.0	46.0	11.0	20.0	5.0	PF 1/2
	SFGC10S-04G	10	7.0	22.0	27.0	47.0	10.5	20.0	5.0	PF 1/2
	SFGC12S-04G	12	7.0	24.0	27.0	47.0	10.5	20.0	5.0	PF 1/2

SFSGA-G (BSP Parallel)

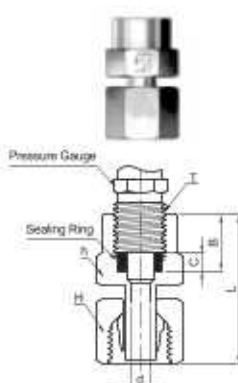
Pressure Gauge Swivel Connector



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

SFSGA-G (BSP Parallel)

Gauge Adaptor

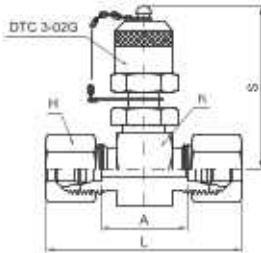


Series	Part Number	Tube O.D.	Dimension (mm)						
			d	H	h	L	B	C	T
L Light PN 315	SFSGA06L-02G	6	3.5	14.0	19.0	38.0	14.5	4.5	PF 1/4
	SFSGA08L-02G	8	5.5	17.0	19.0	38.0	14.5	4.5	PF 1/4
	SFSGA10L-02G	10	7.5	19.0	19.0	39.5	14.5	4.5	PF 1/4
	SFSGA12L-02G	12	9.0	22.0	19.0	40.5	14.5	4.5	PF 1/4
S Heavy PN 630	SFSGA06S-04G	6	3.5	17.0	27.0	45.0	20.0	5.0	PF 1/2
	SFSGA08S-04G	8	4.5	19.0	27.0	45.0	20.0	5.0	PF 1/2
	SFSGA10S-04G	10	6.5	22.0	27.0	47.0	20.0	5.0	PF 1/2
	SFSGA12S-04G	12	7.5	24.0	27.0	47.5	20.0	5.0	PF 1/2

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFTPC

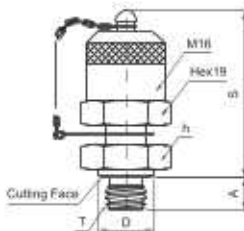
Tee Test Point Connector



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

SFTC

Test Coupling

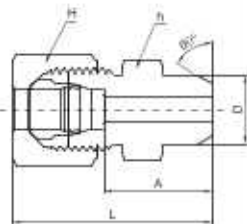


Series	Part Number	Dimension (mm)				
		h	D	S	A	T
PN 630	SFTC3-01G	17	14	41	8	PF 1/8
	SFTC3-02G	19	18	41	10	PF 1/4
	SFTC3-03G	22	22	41	12	PF 3/8
	SFTC3-04G	27	26	41	14	PF 1/2
	SFTC3-M10	17	14	41	8	M10 x 1.0
	SFTC3-M12	17	17	41	12	M12 x 1.5
	SFTC3-M14	19	19	41	12	M14 x 1.5
	SFTC3-M16	22	21	41	12	M16 x 1.5

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFWC

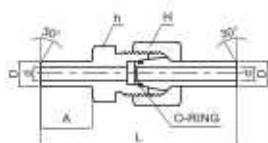
Welding Connector



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

SFAWC

Welding Connector with SFWN

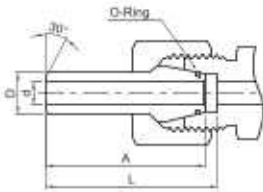


Series S MAX. Pressure	Part Number	Tube O.D. D	Dimension (mm)				
			d	H	h	L	A
PB248	SFAWC10 x 1.0		8				
PB357	SFAWC10 x 1.5	10	7	22	19	58	10
PB458	SFAWC10 x 2.0		6				
PB303	SFAWC12 x 1.5		9				
PB391	SFAWC12 x 2.0	12	8	24	22	65	15
PB474	SFAWC12 x 2.5		7				
PB234	SFAWC16 x 1.5		13				
PB303	SFAWC16 x 2.0	16	12	30	27	74.5	16.5
PB370	SFAWC16 x 2.5		11				
PB433	SFAWC16 x 3.0		10				
PB249	SFAWC20 x 2.0		16				
PB305	SFAWC20 x 2.5	20	15	36	32	84	19
PB357	SFAWC20 x 3.0		14				
PB458	SFAWC20 x 4.0		12				
PB292	SFAWC25 x 3.0		19				
PB378	SFAWC25 x 4.0	25	17	46	41	94.5	19.5
PB458	SFAWC25 x 5.0		15				
PB248	SFAWC30 x 3.0		24				
PB321	SFAWC30 x 4.0	30	22	50	46	102	23
PB391	SFAWC30 x 5.0		20				
PB460	SFAWC30 x 6.0		18				
PB260	SFAWC38 x 4.0		30				
PB318	SFAWC38 x 5.0	38	28	60	55	111	23
PB373	SFAWC38 x 6.0		26				
PB427	SFAWC38 x 7.0		24				

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFWN

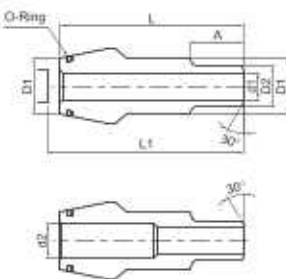
Welding Nipple



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

SFRWN

Reducing Welding



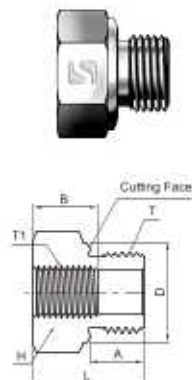
Pressure Rating		Part Number	Tube O.D.		Dimension (mm)				
Fitting	DRWN and Tube		D1	D2	d1	d2	L1	L	A
PN630	PB 526	SFRWN10-6 x 1.5	10	6	3	5	37.5	35	12
	PB 526	SFRWN10-8 x 2.0	10	8	4	-	37.5	35	12
	PB 526	SFRWN12-8 x 2.0	12	8	4	6	37.5	35	14
	PB 357	SFRWN12-10 x 1.5	12	10	7	-	37.5	35	14
PN400	PB 474	SFRWN16-12 x 2.5	16	12	7	-	46.5	43	15
	PB 474	SFRWN20-12 x 2.5	20	12	7	-	51.5	47.5	15
	PB 433	SFRWN20-16 x 3.0	20	16	10	-	53.5	49.5	17
	PB 433	SFRWN25-16 x 3.0	25	16	10	-	56.5	51	17
	PB 458	SFRWN25-20 x 4.0	25	20	12	-	59.5	54	20
	PB 303	SFRWN30-16 x 2.0	30	16	12	-	67	60	17
	PB 303	SFRWN30-20 x 2.5	30	20	15	-	70	63	20
	PB 292	SFRWN30-25 x 3.0	30	25	19	-	70	63	20
PN315	PB 303	SFRWN38-16 x 2.0	38	16	12	-	79	69.5	17
	PB 303	SFRWN38-20 x 2.5	38	20	15	-	82	72.5	20
	PB 292	SFRWN38-25 x 3.0	38	25	19	-	82	72.5	20
	PB 321	SFRWN38-30 x 4.0	38	30	22	-	82	72.5	20

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFMFC

Male Female Connector

BSP Parallel Thread Type

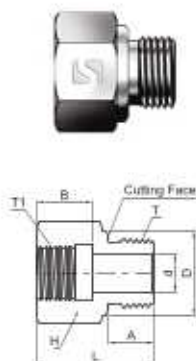


Series	Part Number	Dimension (mm)						
		H	D	L	A	B	T	T1
PN 630	SFMFC 03-01G	22	22	22.5	12	8	PF 3/8	PF 1/8
PN 630	SFMFC 04-01G	27	26	24	14	8	PF 1/2	PF 1/8
PN 400	SFMFC 04-02G	27	26	24	14	12	PF 1/2	PF 1/4
PN 400	SFMFC 06-02G	32	32	26	16	12	PF 3/4	PF 1/4
	SFMFC 06-03G	32	32	26	16	12	PF 3/4	PF 3/8
PN 400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

SFMFG

Male Female Guage Connector

BSP Parallel Thread Type



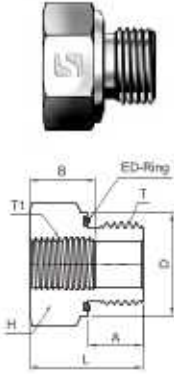
Series	Part Number	Dimension (mm)							
		H	d	D	L	A	B	T	T1
PN 630	SFMFG01-02G	19	4	14	31	8	17	PF1/8	PF 1/4
	SFMFG01-03G	24	4	14	32	8	17	PF1/8	PF 3/8
	SFMFG02-01G	19	5	18	28	12	12	PF 1/4	PF 1/8
	SFMFG02-03G	24	5	18	36	12	17	PF 1/4	PF 3/8
	SFMFG02-04G	30	5	18	40	12	20	PF 1/4	PF 1/2
PN 400	SFMFG02-06G	36	5	18	43	12	22	PF 1/4	PF 3/4
PN 630	SFMFG03-02G	22	8	22	36	12	17	PF 3/8	PF 1/4
PN 250	SFMFG03-04G	30	8	22	41	12	20	PF 3/8	PF 1/2
PN 250	SFMFG03-06G	36	8	22	44	12	22	PF 3/8	PF 3/4
PN 400	SFMFG04-03G	27	12	26	36	14	17	PF 1/2	PF 3/8
	SFMFG04-06G	36	12	26	46	14	22	PF 1/2	PF 3/4
	SFMFG04-08G	41	12	26	49	14	24.5	PF 1/2	PF 1
PN 250	SFMFG04-10G	55	10	26	53	14	26.5	PF 1/2	PF 1
PN 400	SFMFG06-04G	32	16	32	41	16	20	PF 3/4	PF 1/2
	SFMFG06-08G	41	16	32	51	16	24.5	PF 3/4	PF 1
	SFMFG06-10G	55	16	32	55	16	26.5	PF 3/4	PF 1 1/4
PN 250	SFMFG06-12G	60	16	32	57	16	28.5	PF 3/4	PF 1 1/2
PN 400	SFMFG08-06G	41	20	39	47	18	22	PF 1	PF 3/4
PN 250	SFMFG08-10G	55	20	39	57	18	26.5	PF 1	PF 1 1/4
	SFMFG08-12G	60	20	39	59	18	28.5	PF 1	PF 1 1/2
	SFMFG10-08G	50	25	49	52	20	24.5	PF 1 1/4	PF 1
	SFMFG10-12G	60	25	49	60	20	28.5	PF 1 1/4	PF 1 1/2
	SFMFG12-10G	55	32	55	58	22	26.5	PF 1 1/2	PF 1 1/4
PN 250	SFMFG16-12G	70	40	68	62	24	28.5	PF 2	PF 1 1/2

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFMFC-ED

Male Female Connector with ED-Ring

BSP Parallel Thread Type

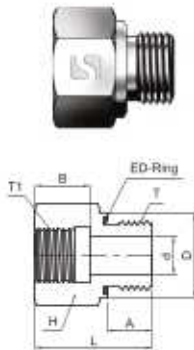


Series	Part Number	Dimension (mm)							
		H	D	L	A	B	T	T1	
PN 630	SFMFC 03ED-01G	22	22	22.5	12	8	PF 3/8	PF 1/8	
PN 630	SFMFC 04ED-01G	27	26	24	14	8	PF 1/2	PF 1/8	
PN 400	SFMFC 04ED-02G	27	26	24	14	12	PF 1/2	PF 1/4	
PN 400	SFMFC 06ED-02G	32	32	26	16	12	PF 3/4	PF 1/4	
	SFMFC 06ED-03G	32	32	26	16	12	PF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

SFMFG-ED

Male Female Gauge Connector with ED-Ring

BSP Parallel Thread Type

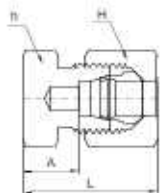


Series	Part Number	Dimension (mm)								
		H	d	D	L	A	B	T	T1	
PN 630	SFMFG01ED -02G	19	4	14	31	8	17	PF 1/8	PF 1/4	
	SFMFG01ED -03G	24	4	14	32	8	17	PF 1/8	PF 3/8	
	SFMFG02ED -01G	19	5	18	28	12	12	PF 1/4	PF 1/8	
	SFMFG02ED -03G	24	5	18	36	12	17	PF 1/4	PF 3/8	
	SFMFG02ED -04G	30	5	18	40	12	20	PF 1/4	PF 1/2	
PN 450	SFMFG02ED -06G	36	5	18	43	12	22	PF 1/4	PF 3/4	
PN 630	SFMFG03ED -02G	22	8	22	36	12	17	PF 3/8	PF 1/4	
	SFMFG03ED -04G	30	8	22	41	12	20	PF 3/8	PF 1/2	
PN 400	SFMFG03ED -06G	36	8	22	44	12	22	PF 3/8	PF 3/4	
PN 400	SFMFG04ED -03G	27	12	26	36	14	17	PF 1/2	PF 3/8	
	SFMFG04ED -06G	36	12	26	46	14	22	PF 1/2	PF 3/4	
	SFMFG04ED -08G	41	12	26	49	14	24.5	PF 1/2	PF 1	
PN 250	SFMFG04ED -10G	55	10	26	53	14	26.5	PF 1/2	PF 1 1/4	
PN 400	SFMFG06ED -04G	32	16	32	41	16	20	PF 3/4	PF 1/2	
	SFMFG06ED -08G	41	16	32	51	16	24.5	PF 3/4	PF 1	
	SFMFG06ED -10G	55	16	32	55	16	26.5	PF 3/4	PF 1 1/4	
PN 250	SFMFG06ED -12G	60	16	32	57	16	28.5	PF 3/4	PF 1 1/2	
PN 400	SFMFG08ED -06G	41	20	39	47	18	22	PF 1	PF 3/4	
PN 250	SFMFG08ED -10G	55	20	39	57	18	26.5	PF 1	PF 1 1/4	
	SFMFG08ED -12G	60	20	39	59	18	28.5	PF 1	PF 1 1/2	
	SFMFG10ED -08G	50	25	49	52	20	24.5	PF 1 1/4	PF 1	
	SFMFG10ED -12G	60	25	49	60	20	28.5	PF 1 1/4	PF 1 1/2	
	SFMFG12ED -10G	55	32	55	58	22	26.5	PF 1 1/2	PF 1 1/4	
	SFMFG16ED -12G	70	40	68	62	24	28.5	PF 2	PF 1 1/2	

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFC

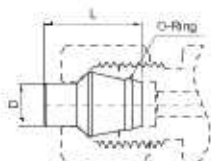
Tube Cap



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

SFP

Plug

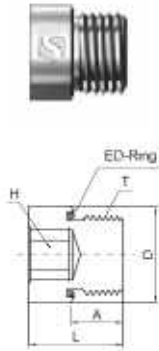


Series	Part Number	Tube O.D.	Dimension (mm)	
			D	L
L Light PN 315	SFP-06L	6	6	18.5
	SFP-08L	8	8	18.5
	SFP-10L	10	10	20
	SFP-12L	12	12	20.5
	SFP-15L	15	15	20.5
	SFP-18L	18	18	22.5
PN 160	SFP-22L	22	22	25
	SFP-28L	28	28	25.5
	SFP-35L	35	35	30
	SFP-42L	42	42	30
S Heavy PN 630	SFP-06S	6	6	18.5
	SFP-08S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

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFBP-GED/MED(BSP Parallel/Metric Parallel)

Blanking Plugs for PortwithED-Ring

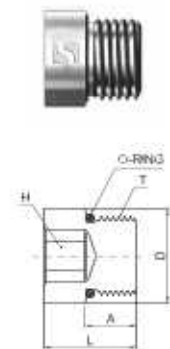


Series	Part Number(M)	Part Number(G)	T		Dimension (mm)				
			M(Metric)	G(PF)	D	H	L	A	
PB 400	SFBP-M10ED	SFBP-01GED	M10	1.0	1/8	14.0	5	12.0	8
	SFBP-M12ED	-	M12	1.5	-	17.0	6	17.0	12
	SFBP-M14ED	SFBP-02GED	M14	1.5	1/4	19.0	6	17.0	12
	SFBP-M16ED	SFBP-03GED	M16	1.5	3/8	22.0	8	17.0	12
	SFBP-M18ED	-	M18	1.5	-	23.9	8	17.0	12
	SFBP-M20ED	-	M20	1.5	-	25.9	10	19.0	14
	SFBP-M22ED	SFBP-04GED	M22	1.5	1/2	27.0	10	19.0	14
	SFBP-M26ED	-	M26	1.5	-	31.9	12	21.0	16
	SFBP-M27ED	SFBP-06GED	M27	2.0	3/4	32.0	12	21.0	16
	SFBP-M33ED	SFBP-08GED	M33	2.0	1	39.9	17	22.5	16
PB 250	SFBP-M42ED	SFBP-10GED	M42	2.0	1 1/4	49.9	22	22.5	16
	SFBP-M48ED	SFBP-12GED	M48	2.0	1 1/2	55.0	24	22.5	16

SFBP-M (Metric Parallel)

Blanking Plugs withO-Ring

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

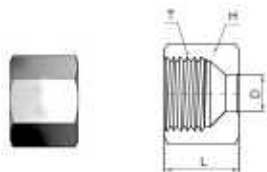


Series	Part Number	T M(Metric)	Dimension (mm)			
			D	H	L	A
PB 630	SFBP-M10	M10X1	13	5	14	10
	SFBP-M12	M12X1.5	17	6	16.5	11.5
	SFBP-M14	M14X1.5	19	6	16.5	11.5
	SFBP-M16	M16X1.5	21	6	18	13
PB 400	SFBP-M22	M22X1.5	27	10	20.5	15.5
	SFBP-M26	M26X1.5	31	12	21	16
	SFBP-M27	M27X2	32	12	24	19
	SFBP-M33	M33X2	38	17	25.5	19
	SFBP-M42	M42X2	48	22	26	19.5

All dimensions in millimeters. Dimensions given approximate length with tightened nut.

SFN

NUT



SFS

Cutting Ring

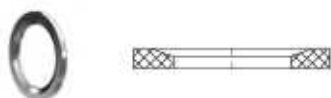


BSP Parallel

Series	Nut Part Number	Cutting Ring Part Number	Tube O.D	Dimension (mm)			
				D	H	L	T
LL Very Light	SFN -04LL	SFS-04LL	4	4	10	11.5	M8 1.0
	SFN -06LL	SFS-06LL	6	6	12	12	M10 1.0
	SFN -08LL	SFS-08LL	8	8	14	12.5	M12 1.0
	SFN -10LL	SFS-10LL	10	10	17	12.5	M14 1.0
	SFN -12LL	SFS-12LL	12	12	19	13	M16 1.0
L Light	SFN -06L	SFS-06L	6	6	14	15	M12 1.5
	SFN -08L	SFS-08L	8	8	17	15	M14 1.5
	SFN -10L	SFS-10L	10	10	19	16	M16 1.5
	SFN -12L	SFS-12L	12	12	22	16	M18 1.5
	SFN -15L	SFS-15L	15	15	27	17.5	M22 1.5
	SFN -18L	SFS-18L	18	18	32	18	M26 1.5
	SFN -22L	SFS-22L	22	22	36	20.5	M30 2.0
	SFN -28L	SFS-28L	28	28	41	21	M36 2.0
	SFN -35L	SFS-35L	35	35	50	24	M45 2.0
SFN -42L	SFS-42L	42	42	60	24	M52 2.0	
S Heavy	SFN -06S	SFS-06S	6	6	17	16.5	M14 1.5
	SFN -08S	SFS-08S	8	8	19	16.5	M16 1.5
	SFN -10S	SFS-10S	10	10	22	17.5	M18 1.5
	SFN -12S	SFS-12S	12	12	24	18	M20 1.5
	SFN -14S	SFS-14S	14	14	27	20.5	M22 1.5
	SFN -16S	SFS-16S	16	16	30	21	M24 1.5
	SFN -20S	SFS-20S	20	20	36	24	M30 2.0
	SFN -25S	SFS-25S	25	25	46	27	M36 2.0
	SFN -30S	SFS-30S	30	30	50	29.5	M42 2.0
SFN -38S	SFS-38S	38	38	60	32.5	M52 2.0	

SFED

ED-Ring



Part Number	For Male Thread	
SFED - M8	M8X1.0	-
SFED - M10	M10X1.0	PF 1/8
SFED - M12	M12X1.5	-
SFED - M14	M14X1.5	PF 1/4
SFED - M16	M16X1.5	-
SFED - 03G	-	PF 3/8
SFED - M18	M18X1.5	-
SFED - M20	M20X1.5	-
SFED - 04G	-	PF 1/2
SFED - M22	M22X1.5	-
SFED - M26	M26X1.5	PF 3/4
SFED - M27	M27X2.0	
SFED - M33	M33X2.0	PF 1
SFED - M42	M42X2.0	PF 1 1/4
SFED - M48	M48X2.0	PF 1 1/2

SFOR

O-Ring



Part Number	d	t
SFOR - 4	4	1.5
SFOR - 6	6	1.5
SFOR - 7.5	7.5	1.5
SFOR - 9	9	1.5
SFOR - 10	10	2.0
SFOR - 12	12	2.0
SFOR - 15	15	2.0
SFOR - 16.3	16.3	2.4
SFOR - 20	20	2
SFOR - 20.3	20.3	2.4
SFOR - 25.3	25.3	2.4
SFOR - 26	26	2
SFOR - 32	32	2.5
SFOR - 33.3	33.3	2.4
SFOR - 38	38	2.5

All dimensions in millimeters. Dimensions given approximate length with tightened nut



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