

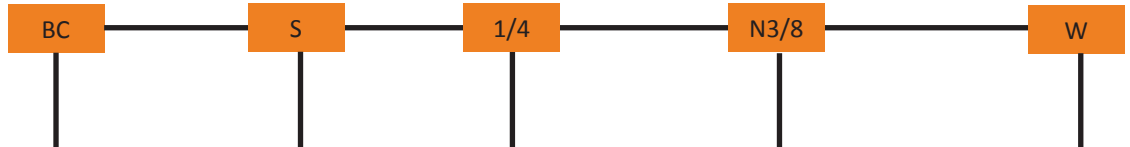
Stainless Steel Push-In Fittings and Compression Fittings



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Ordering Part No. =
(e.g., **BCS 1/4 N3/8 W**)



Fitting Name	
Branch Tee	BT
Bulkhead Connector	BC
Bulkhead Union	BU
Cartridge Fitting	CF
Elbow Union	EU
Female Connector	FC
Female Elbow	FE
Hex Bushing	HB
Male Connector	MC
Male Elbow	ME
Plug In Elbow	PE
Reducing Union	RU
Run Tee	RT
Straight Union	SU
Tee Union	TU
Tube Adaptor	TA
Tube Connector	TC
Tube Reducer	TR

Material / Type	
316 Stainless Steel	S



Tube OD	
Inches	1/8
	5/32
	3/16
	1/4
	5/16
	3/8
mm	1/2
	4
	6
	8
	10
	12
14	
16	

Thread Size / Stem / Tube	
N = NPT	N1/8
	N1/4
	N3/8
	N1/2
R = PT (British Standard Pipe Taper Thread)	R1/8
	R1/4
	R3/8
	R1/2
G = PP (British Standard Parallel Pipe Thread)	G1/8
	G1/4
	G3/8
	G1/2
U = Universal Threads (fits NPT, R, & G)	U1/8
	U1/4
	U3/8
Machine Thread	U1/2
	10-32
	M5
M6	
Stem Size	1/8-1/2"
	4-12mm

Stainless Steel Fitting Options—Tube Gripping/Releasing Mechanism	
Collet style with Stainless Steel Release Button	(leave blank)
Gripper Style with Stainless Steel Release Button	W

Stainless Steel Push-In Fittings List Price



Stainless Steel Fittings													
Model	Bulkhead Connector			Branch Tee (Swivel)		Female Connector		Male Connector		Male Elbow (Swivel)		Run Tee (Swivel)	
	BCS			BTS		FCS		MCS		MES		RTS	
Tube OD	Thread	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price
1/8"	10-32	BCS 1/8 10-32 W	\$22.69	BTS 1/8 10-32 W	\$23.51	FCS 1/8 10-32 W	\$9.76	MCS 1/8 10-32 W	\$8.37	MES 1/8 10-32 W	\$16.65	RTS 1/8 10-32 W	\$23.51
1/8"	NPT1/8	BCS 1/8 N1/8 W	\$22.69	BTS 1/8 N1/8 W	\$23.51	FCS 1/8 N1/8 W	\$9.76	MCS 1/8 N1/8 W	\$8.37	MES 1/8 N1/8 W	\$16.65	RTS 1/8 N1/8 W	\$23.51
1/8"	NPT1/4	BCS 1/8 N1/4 W	\$25.10	BTS 1/8 N1/4 W	\$24.70	FCS 1/8 N1/4 W	\$13.70	MCS 1/8 N1/4 W	\$8.78	MES 1/8 N1/4 W	\$20.00	RTS 1/8 N1/4 W	\$24.70
5/32"	10-32	BCS 5/32 10-32 W	\$22.69	BTS 5/32 10-32 W	\$23.51	FCS 5/32 10-32 W	\$9.76	MCS 5/32 10-32 W	\$8.37	MES 5/32 10-32 W	\$16.64	RTS 5/32 10-32 W	\$23.51
5/32"	NPT1/8	BCS 5/32 N1/8 W	\$22.69	BTS 5/32 N1/8 W	\$23.51	FCS 5/32 N1/8 W	\$9.76	MCS 5/32 N1/8 W	\$8.37	MES 5/32 N1/8 W	\$16.64	RTS 5/32 N1/8 W	\$23.51
5/32"	NPT1/4	BCS 5/32 N1/4 W	\$25.10	BTS 5/32 N1/4 W	\$25.92	FCS 5/32 N1/4 W	\$13.04	MCS 5/32 N1/4 W	\$8.37	MES 5/32 N1/4 W	\$16.64	RTS 5/32 N1/4 W	\$25.92
1/4"	10-32	BCS 1/4 10-32 W	\$25.74	BTS 1/4 10-32 W	\$23.51	FCS 1/4 10-32 W	\$9.76	MCS 1/4 10-32 W	\$8.37	MES 1/4 10-32 W	\$17.71	RTS 1/4 10-32 W	\$23.51
1/4"	NPT1/8	BCS 1/4 N1/8 W	\$25.74	BTS 1/4 N1/8 W	\$23.51	FCS 1/4 N1/8 W	\$9.76	MCS 1/4 N1/8 W	\$8.37	MES 1/4 N1/8 W	\$17.72	RTS 1/4 N1/8 W	\$23.51
1/4"	NPT1/4	BCS 1/4 N1/4 W	\$25.74	BTS 1/4 N1/4 W	\$27.03	FCS 1/4 N1/4 W	\$9.76	MCS 1/4 N1/4 W	\$8.37	MES 1/4 N1/4 W	\$19.15	RTS 1/4 N1/4 W	\$27.03
1/4"	NPT3/8	BCS 1/4 N3/8 W	\$26.94	BTS 1/4 N3/8 W	\$30.83	FCS 1/4 N3/8 W	\$10.51	MCS 1/4 N3/8 W	\$9.12	MES 1/4 N3/8 W	\$19.92	RTS 1/4 N3/8 W	\$30.83
5/16"	NPT1/8	BCS 5/16 N1/8 W	\$26.94	BTS 5/16 N1/8 W	\$29.56	FCS 5/16 N1/8 W	\$13.78	MCS 5/16 N1/8 W	\$11.13	MES 5/16 N1/8 W	\$20.27	RTS 5/16 N1/8 W	\$29.56
5/16"	NPT1/4	BCS 5/16 N1/4 W	\$26.94	BTS 5/16 N1/4 W	\$29.56	FCS 5/16 N1/4 W	\$13.78	MCS 5/16 N1/4 W	\$11.13	MES 5/16 N1/4 W	\$20.92	RTS 5/16 N1/4 W	\$29.56
5/16"	NPT3/8	BCS 5/16 N3/8 W	\$26.94	BTS 5/16 N3/8 W	\$33.97	FCS 5/16 N3/8 W	\$13.78	MCS 5/16 N3/8 W	\$11.76	MES 5/16 N3/8 W	\$21.40	RTS 5/16 N3/8 W	\$33.97
5/16"	NPT 1/2	BCS 5/16 N1/2 W	\$28.15	BTS 5/16 N1/2 W	\$35.18	FCS 5/16 N1/2 W	\$16.19	MCS 5/16 N1/2 W	\$12.72	MES 5/16 N1/2 W	\$25.81	RTS 5/16 N1/2 W	\$35.97
3/8"	NPT 1/8	BCS 3/8 N1/8 W	\$30.00	BTS 3/8 N1/8 W	\$33.97	FCS 3/8 N1/8 W	\$16.72	MCS 3/8 N1/8 W	\$11.13	MES 3/8 N1/8 W	\$22.17	RTS 3/8 N1/8 W	\$33.97
3/8"	NPT1/4	BCS 3/8 N1/4 W	\$30.00	BTS 3/8 N1/4 W	\$33.97	FCS 3/8 N1/4 W	\$16.72	MCS 3/8 N1/4 W	\$11.13	MES 3/8 N1/4 W	\$22.17	RTS 3/8 N1/4 W	\$33.97
3/8"	NPT3/8	BCS 3/8 N3/8 W	\$30.00	BTS 3/8 N3/8 W	\$33.97	FCS 3/8 N3/8 W	\$18.13	MCS 3/8 N3/8 W	\$11.30	MES 3/8 N3/8 W	\$23.00	RTS 3/8 N3/8 W	\$33.97
3/8"	NPT1/2	BCS 3/8 N1/2 W	\$30.00	BTS 3/8 N1/2 W	\$37.76	FCS 3/8 N1/2 W	\$18.76	MCS 3/8 N1/2 W	\$12.72	MES 3/8 N1/2 W	\$26.35	RTS 3/8 N1/2 W	\$37.76
1/2"	NPT1/4	BCS 1/2 N1/4 W	\$32.35	BTS 1/2 N1/4 W	\$37.20	FCS 1/2 N1/4 W	\$16.84	MCS 1/2 N1/4 W	\$13.64	MES 1/2 N1/4 W	\$28.28	RTS 1/2 N1/4 W	\$37.20
1/2"	NPT3/8	BCS 1/2 N3/8 W	\$33.55	BTS 1/2 N3/8 W	\$37.20	FCS 1/2 N3/8 W	\$18.76	MCS 1/2 N3/8 W	\$13.64	MES 1/2 N3/8 W	\$28.28	RTS 1/2 N3/8 W	\$37.20
1/2"	NPT1/2	BCS 1/2 N1/2 W	\$35.97	BTS 1/2 N1/2 W	\$39.74	FCS 1/2 N1/2 W	\$19.37	MCS 1/2 N1/2 W	\$17.99	MES 1/2 N1/2 W	\$32.20	RTS 1/2 N1/2 W	\$39.74
4 mm	M5	BCS 4 M5 W	\$22.69	BTS 4 M5 W	\$23.51	FCS 4 M5 W	\$9.76	MCS 4 M5 W	\$8.37	MES 4 M5 W	\$16.64	RTS 4 M5 W	\$23.51
4 mm	R1/8	BCS 4 R1/8 W	\$22.69	BTS 4 R1/8 W	\$23.51	FCS 4 R1/8 W	\$9.76	MCS 4 R1/8 W	\$8.37	MES 4 R1/8 W	\$16.64	RTS 4 R1/8 W	\$23.51
4 mm	R1/4	BCS 4 R1/4 W	\$22.69	BTS 4 R1/4 W	\$23.51	FCS 4 R1/4 W	\$9.76	MCS 4 R1/4 W	\$9.64	MES 4 R1/4 W	\$16.64	RTS 4 R1/4 W	\$23.51
6mm	M5	BCS 6 M5 W	\$25.74	BTS 6 M5 W	\$23.51	FCS 6 M5 W	\$9.76	MCS 6 M5 W	\$9.64	MES 6 M5 W	\$19.15	RTS 6 M5 W	\$23.51
6mm	R1/8	BCS 6 R1/8 W	\$25.74	BTS 6 R1/8 W	\$23.51	FCS 6 R1/8 W	\$9.76	MCS 6 R1/8 W	\$9.64	MES 6 R1/8 W	\$17.72	RTS 6 R1/8 W	\$23.51
6mm	R1/4	BCS 6 R1/4 W	\$25.74	BTS 6 R1/4 W	\$27.03	FCS 6 R1/4 W	\$9.76	MCS 6 R1/4 W	\$9.64	MES 6 R1/4 W	\$19.15	RTS 6 R1/4 W	\$27.03
6mm	R3/8												
8mm	R1/8												
8 mm	R1/4	BCS 8 R1/4 W	\$26.94	BTS 8 R1/4 W	\$29.56	FCS 8 R1/4 W	\$12.52	MCS 8 R1/4 W	\$11.13	MES 8 R1/4 W	\$21.26	RTS 8 R1/4 W	\$29.56
8 mm	R3/8	BCS 8 R3/8 W	\$26.94	BTS 8 R3/8 W	\$32.10	FCS 8 R3/8 W	\$13.78	MCS 8 R3/8 W	\$11.76	MES 8 R3/8 W	\$21.40	RTS 8 R3/8 W	\$32.10
10mm	R1/4	BCS 10 R1/4 W	\$30.00	BTS 10 R1/4 W	\$33.97	FCS 10 R1/4 W	\$15.05	MCS 10 R1/4 W	\$11.13	MES 10 R1/4 W	\$22.17	RTS 10 R1/4 W	\$33.97
10mm	R3/8	BCS 10 R3/8 W	\$30.00	BTS 10 R3/8 W	\$33.97	FCS 10 R3/8 W	\$16.07	MCS 10 R3/8 W	\$11.30	MES 10 R3/8 W	\$23.00	RTS 10 R3/8 W	\$33.97
12mm	R1/4												
12mm	R3/8	BCS 12 R3/8 W	\$33.55	BTS 12 R3/8 W	\$37.20	FCS 12 R3/8 W	\$16.84	MCS 12 R3/8 W	\$13.64	MES 12 R3/8 W	\$28.28	RTS 12 R3/8 W	\$37.20
12mm	R1/2	BCS 12 R1/2 W	\$33.55	BTS 12 R1/2 W	\$39.74	FCS 12 R1/2 W	\$19.37	MCS 12 R1/2 W	\$17.99	MES 12 R1/2 W	\$32.20	RTS 12 R1/2 W	\$39.74

Stainless Steel Push-In Fittings List Price

Stainless Steel Fittings												
	Bulkhead Union		Elbow Union		Straight Union		Tube Connector		Tee Union		Cartridge Fitting	
	BUS		EUS		SUS		TCS		TUS		CFS	
Tube OD	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price	Part No.	Unit Price
1/8"	BUS 1/8 W	\$15.98	EUS 1/8 W	\$19.16	SUS 1/8 W	\$12.05	TCS 1/8	\$2.88	TUS 1/8 W	\$23.51	CFS 1/8 W	\$10.63
5/32"	BUS 5/32 W	\$15.98	EUS 5/32 W	\$19.15	SUS 5/32 W	\$12.05	TCS 5/32	\$2.88	TUS 5/32 W	\$23.51	CFS 5/32 W	\$9.54
1/4"	BUS 1/4 W	\$18.82	EUS 1/4 W	\$22.00	SUS 1/4 W	\$12.05	TCS 1/4	\$2.88	TUS 1/4 W	\$27.03	CFS 1/4 W	\$8.21
5/16"	BUS 5/16 W	\$24.09	EUS 5/16 W	\$23.00	SUS 5/16 W	\$13.12	TCS 5/16	\$2.88	TUS 5/16 W	\$30.51	CFS 5/16 W	\$8.93
3/8"	BUS 3/8 W	\$25.60	EUS 3/8 W	\$25.09	SUS 3/8 W	\$14.22	TCS 3/8	\$3.46	TUS 3/8 W	\$33.97	CFS 3/8 W	\$9.42
1/2"	BUS 1/2 W	\$33.03	EUS 1/2 W	\$28.86	SUS 1/2 W	\$17.23	TCS 1/2	\$4.03	TUS 1/2 W	\$39.74	CFS 1/2 W	\$10.02
4 mm	BUS 4 W	\$15.98	EUS 4 W	\$19.15	SUS 4 W	\$12.05			TUS 4 W	\$23.51		
6 mm	BUS 6 W	\$22.58	EUS 6 W	\$22.00	SUS 6 W	\$12.05			TUS 6 W	\$27.03		
8 mm	BUS 8 W	\$24.09	EUS 8 W	\$23.00	SUS 8 W	\$13.12			TUS 8 W	\$30.51		
10 mm	BUS 10 W	\$25.60	EUS 10 W	\$25.09	SUS 10 W	\$14.22	TCS 10	\$3.46	TUS 10 W	\$33.97		
12 mm	BUS 12 W	\$33.03	EUS 12 W	\$28.86	SUS 12 W	\$17.23			TUS 12 W	\$39.74		

Stainless Steel Fittings						Model					
		Reduced Union		Tube Reducer				Tube Adaptor		Hex Bushing	
		RUS		TRS				TAS		HBS	
ØD1	ØD2	Part No.	Unit Price	Part No.	Unit Price	Tube OD	Thread	Part No.	Unit Price	Part No.	Unit Price
1/8"	5/32"	RUS 5/32-1/8 W	\$15.98			1/8"	10-32	TAS 1/8 10-32	\$5.30		
5/32"	1/8"			TRS 1/8-5/32 W	\$12.05	1/8"	NPT1/8	TAS 1/8 N1/8	\$5.30	HBS MN1/4-FN1/8	\$2.92
5/32"	1/4"	RUS 1/4-5/32 W	\$18.82			5/32"	10-32	TAS 5/32 10-32	\$5.30		
1/4"	5/32"			TRS 5/32-1/4 W	\$12.05	1/4"	NPT1/8	TAS 1/4 N1/8	\$5.30		
3/8"	1/4"	RUS 3/8-5/16 W	\$25.60			1/4"	NPT1/4	TAS 1/4 N1/4	\$5.30		
3/8"	5/16"			TRS 1/4-3/8 W	\$12.05	1/4"	NPT3/8	TAS 1/4 N3/8	\$5.30		
3/8"	1/2"	RUS 1/2-3/8 W	\$33.03	TRS 5/16-3/8 W	\$13.12	5/16"	NPT1/4	TAS 5/16 N1/4	\$7.82		
1/2"	3/8"					5/16"	NPT3/8	TAS 5/16 N3/8	\$7.82		
						3/8"	NPT1/8	TAS 3/8 N1/8	\$7.44	HBS MN3/8-FN1/8	\$3.66
6mm	4mm	RUS 6-4 W	\$22.58	TRS 4-6 W	\$10.79	3/8"	NPT1/4	TAS 3/8 N1/4	\$7.82	HBS MN3/8-FFN1/4	\$4.38
8mm	6mm	RUS 8-6 W	\$24.06	TRS 6-8 W	\$12.05	3/8"	NPT3/8	TAS 3/8 N3/8	\$11.06		
10mm	8mm	RUS 10-8 W	\$25.60	TRS 8-10 W	\$13.12	3/8"	NPT1/2	TAS 3/8 N1/2	\$11.06		
12mm	10mm	RUS 12-10 W	\$33.03	TRS 10-12 W	\$14.22	1/2"	NPT1/4	TAS 1/2 N1/4	\$13.25	HBS MN1/2-FN1/4	\$4.38
						1/2"	NPT3/8	TAS 1/2 N3/8	\$13.25	HBS MN1/2-FN3/8	\$4.38
						1/2"	NPT1/2	TAS 1/2 N1/2	\$13.25		
						6mm	M6				
						6mm	N1/4	TAS 6 N1/4	\$5.30		

Stainless Steel Push-In Fittings Specifications



A. Installation of Pipe Fittings:

Tighten fitting by hand, then turn it 2-3 turns with a wrench until it reaches the desired torque listed. If the fittings is not pre-coated with sealant, or is used and the sealant is not in good condition, apply Teflon sealant tape to the threads.

Recommendation of Torque for Tightening Fittings		
Fitting Thread Size	Torque, lb-ft	Torque, kgf/cm
10-32, M5 – M6	1.0 – 1.5	14 – 21
NPT1/8, R1/8	5 – 6.5	70 – 90
NPT1/4, R1/4	8.5 – 10	120 – 140
NPT3/8, R3/8	16 – 17.5	220 – 240
NPT1/2, R1/2	20 – 21.5	280 – 300

B. Installation of Tubing into Fitting:

1. Slowly push a clean and perpendicularly cut tube into the fitting until it comes to a dead stop.
2. Gently pull the tubing back until the Grip Ring or Collet of the fitting grips onto the tubing and has a good seal.
3. Use Polyethylene, Polypropylene, Polyurethane, or Nylon tubing designed for instant fittings.
4. Hard metal tubing can be used for all metal Stainless Steel if the tubing is pre-grooved.

C. Removal of Tubing from Fitting:

1. Push in evenly on the Release Button.
2. Pull out the tube while depressing the Release Button.
3. To reuse the tubing, cut off the lodged portion of the previously used tubing in an even and perpendicular fashion.

D. Recommended Tubing Material, Size, and Hardness Requirements:

Tubing Material	Specified Size	Hardness (Durometer)
Polyurethane	+/- 0.006" (+/-0.15 mm)	Shore A 85 or higher
Polyethylene	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Polypropylene	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Nylon	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Pre-grooved Metal Tubing	+/- 0.004" (+/-0.1 mm)	

E. Specifications, Materials of Construction, and Schematics of Typical Construction:

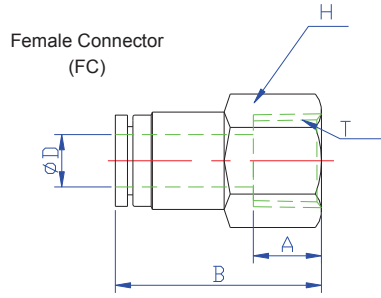
	Stainless Steel Fittings
Operating Pressure Range	0 - 250 PSI (0 - 1650 kpa)
Vacuum	0 - 30" Hg (0 - 760 mm Hg)
Operating Temperature	5 - 230°F (-15 to 110°C)
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene, and Hard metal tubing (tubing must be pre-grooved)
Metal Body	T316 Stainless Steel
Plastic Body	None
Release Button	300 series Stainless Steel
Grip Ring or Collet	300 series Stainless Steel
O-ring	VITON
Thread Sealant	None
Service	Air, Liquid
Sterilization Temperature	Up to 280°F (138°C)

Stainless Steel (SS) Gripper-Style (W) Fitting
Materials of Construction



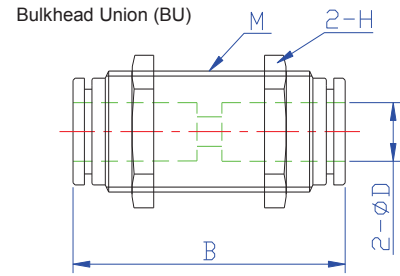
Stainless Steel (SS) Collet-Style Fitting
Materials of Construction





Model			Bulkhead Connector				Female Connector	
ΦD	T, Thread	B	BCS				FCS	
			Part No.	H1	H2	M	Part No.	H
1/8	10-32	24.2	BCS 1/8 10-32W	S14	S14	M12X1	FCS 1/8 10-32W	S11
1/8	1/8 NPT	27.2	BCS 1/8 N1/8W	S14	S14	M12X1	FCS 1/8 N1/8W	S14
1/8	1/4 NPT	30.2	BCS 1/8 N1/4W	S17	S17	M14X1	FCS 1/8 N1/4W	S17
5/32	10-32	24.2	BCS 5/32 10-32W	S14	S14	M12X1	FCS 5/32 10-32W	S11
5/32	1/8 NPT	27.2	BCS 5/32 N1/8W	S14	S14	M12X1	FCS 5/32 N1/8W	S14
5/32	1/4 NPT	30.2	BCS 5/32 N1/4W	S17	S17	M12X1	FCS 5/32 N1/4W	S17
3/16	1/8 NPT	29.2	BCS 3/16 N1/8W	S17	S17	M14X1	FCS 3/16 N1/8W	S14
3/16	1/4 NPT	32.2	BCS 3/16 N1/4W	S17	S17	M14X1	FCS 3/16 N1/4W	S17
1/4	10-32	26.2	BCS 1/4 10-32W	S17	S17	M14X1	FCS 1/4 10-32W	S14
1/4	1/8 NPT	29.2	BCS 1/4 N1/8W	S17	S17	M14X1	FCS 1/4 N1/8W	S14
1/4	1/4 NPT	32.2	BCS 1/4 N1/4W	S17	S17	M14X1	FCS 1/4 N1/4W	S17
1/4	3/8 NPT	33.2	BCS 1/4 N3/8W	S19	S19	M14X1	FCS 1/4 N3/8W	S19
5/16	1/8 NPT	31.1	BCS 5/16 N1/8W	S19	S19	M17X1	FCS 5/16 N1/8W	S17
5/16	1/4 NPT	34.1	BCS 5/16 N1/4W	S19	S19	M17X1	FCS 5/16 N1/4W	S17
5/16	3/8 NPT	37.1	BCS 5/16 N3/8W	S19	S19	M17X1	FCS 5/16 N3/8W	S19
3/8	1/8 NPT	34	BCS 3/8 N1/8W	S21	S21	M19X1	FCS 3/8 N1/8W	S19
3/8	1/4 NPT	37	BCS 3/8 N1/4W	S21	S21	M19X1	FCS 3/8 N1/4W	S19
3/8	3/8 NPT	38	BCS 3/8 N3/8W	S21	S21	M19X1	FCS 3/8 N3/8W	S19
3/8	1/2 NPT	40	BCS 3/8 N1/2W	S24	S24	M22X1	FCS 3/8 N1/2W	S24
1/2	1/4 NPT	39.5	BCS 1/2 N1/4W	S24	S24	M22X1	FCS 1/2 N1/4W	S22
1/2	3/8 NPT	40.5	BCS 1/2 N3/8W	S24	S24	M22X1	FCS 1/2 N3/8W	S22
1/2	1/2 NPT	42.5	BCS 1/2 N1/2W	S24	S24	M22X1	FCS 1/2 N1/2W	S24

4	M5	24.2	BCS 4 M5W	S14	S14	M12X1	FCS 4 M5W	S11
4	1/8 BSPT	27.2	BCS 4 R1/8W	S14	S14	M12X1	FCS 4 R1/8W	S14
4	1/4 BSPT	30.2	BCS 4 R1/4W	S17	S17	M14X1	FCS 4 R1/4W	S17
6	M5	26.2	BCS 6 M5W	S17	S17	M14X1	FCS 6 M5W	S14
6	1/8 BSPT	29.2	BCS 6 R1/8W	S17	S17	M14X1	FCS 6 R1/8W	S14
6	1/4 BSPT	32.2	BCS 6 R1/4W	S17	S17	M14X1	FCS 6 R1/4W	S17
6	3/8 BSPT	33.2	BCS 6 R3/8W	S19	S19	M17X1	FCS 6 R3/8W	S19
8	1/8 BSPT	31.1	BCS 8 R1/8W	S19	S19	M17X1	FCS 8 R1/8W	S17
8	1/4 BSPT	34.1	BCS 8 R1/4W	S19	S19	M17X1	FCS 8 N1/4W	S17
8	3/8 BSPT	37.1	BCS 8 R3/8W	S19	S19	M17X1	FCS 8 N3/8W	S19
8	1/2 BSPT	39.1	BCS 8 R1/2W	S24	S24	M22X1	FCS 8 R1/2W	S24
10	1/8 BSPT	34	BCS 10 R1/8W	S21	S21	M19X1	FCS 10 R1/8W	S19
10	1/4 BSPT	37	BCS 10 R1/4W	S21	S21	M19X1	FCS 10 R1/4W	S19
10	3/8 BSPT	38	BCS 10 R3/8W	S21	S21	M19X1	FCS 10 R3/8W	S21
10	1/2 BSPT	40	BCS 10 R1/2W	S24	S24	M22X1	FCS 10 R1/2W	S24
12	1/4 BSPST	39.5	BCS 12 R1/4W	S24	S24	M22X1	FCS 12 R1/4W	S22
12	3/8 BSPT	40.5	BCS 12 R3/8W	S24	S24	M22X1	FCS 12 R3/8W	S22
12	1/2 BSPT	42.5	BCS 12 R1/2W	S24	S24	M22X1	FCS 12 R1/2W	S24

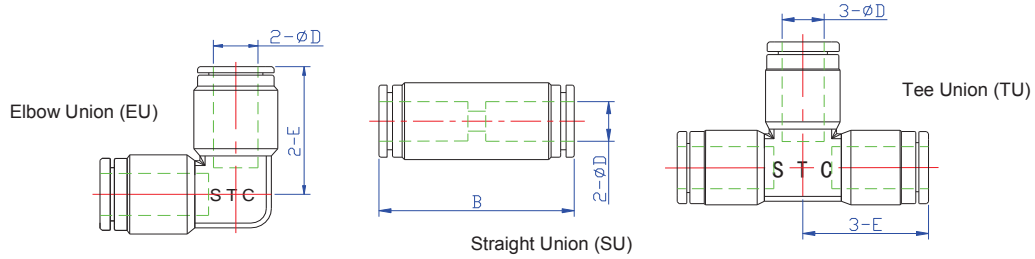


Bulkhead Union				
BU				
ΦD	Part No.	B	H	M
1/8	BUS 1/8W	34.5	S14	M12X1
5/32	BUS 5/32W	35.1	S14	M12X1
3/16	BUS 3/16W	38.05	S17	M14X1
1/4	BUS 1/4W	38.05	S17	M14X1
5/16	BUS 5/16W	42.7	S19	M17X1
3/8	BUS 3/8W	48.4	S21	M19X1
1/2	BUS 1/2W	52.5	S24	M22X1

4	BUS 4W	35.1	S14	M12X1
6	BUS 6W	38.05	S17	M14X1
8	BUS 8W	42.7	S19	M17X1
10	BUS 10W	48.4	S21	M19X1
12	BUS 12W	52.5	S24	M22X1

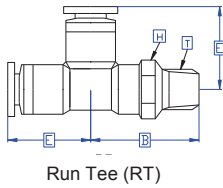
Model		Tube Reducer		
ΦD1	ΦD2	TR		
		Part No.	B	C
1/4	5/32	TRS 5/32-1/4W	33.4	9
5/16	5/32	TRS 5/32-5/16W	36.4	10.5
5/16	1/4	TRS 1/4-5/16W	40.3	10.5
3/8	1/4	TRS 1/4-3/8W	36.9	10.5
3/8	5/16	TRS 5/16-3/8W	43.1	10.5
1/2	1/4	TRS 1/4-1/2W	36.9	10.5
1/2	5/16	TRS 5/16-1/2W	39.1	10.5
1/2	3/8	TRS 3/8-1/2W	41.5	10.5

Stainless Steel Push-In Fittings Dimensions



Model	Elbow Union		Reducing Union		Straight Union		Tee Union		Plug				
	EU		RU		SU		TU		PG				
ΦD	Part No.	E	Part No.	B	Part No.	B	Part No.	E	Part No.	B	P1	P2	C
1/8	EUS 1/8W	20.2	RUS 1/8-5/32W	35.2	SUS 1/8W	34.5	TUS 1/8W	20.2	PGS 5/32	25	5	2.5	13
5/32	EUS 5/32W	20.2	RUS 5/32-1/4W	37	SUS 5/32W	35.1	TUS 5/32W	20.2	PGS 3/16	31	6	2.5	15
3/16	EUS 3/16W	22.6			SUS 3/16W	38.05	TUS 3/16W	22.6	PGS 1/4	33	7	3	17
1/4	EUS 1/4W	22.3	RUS 1/4-5/16W	40.9	SUS 1/4W	38.05	TUS 1/4W	22.3	PGS 5/16	37	9	4	18
5/16	EUS 5/16W	23.9	RUS 5/16-3/8W	47.05	SUS 5/16W	42.7	TUS 5/16W	24.1	PGS 3/8	42	11	5	23
3/8	EUS 3/8W	30.5	RUS 3/8-1/2W	52	SUS 3/8W	48.4	TUS 3/8W	27.2	PGS 1/2	44	13	6	23
1/2	EUS 1/2W	32.2			SUS 1/2W	52.5	TUS 1/2W	31.9					

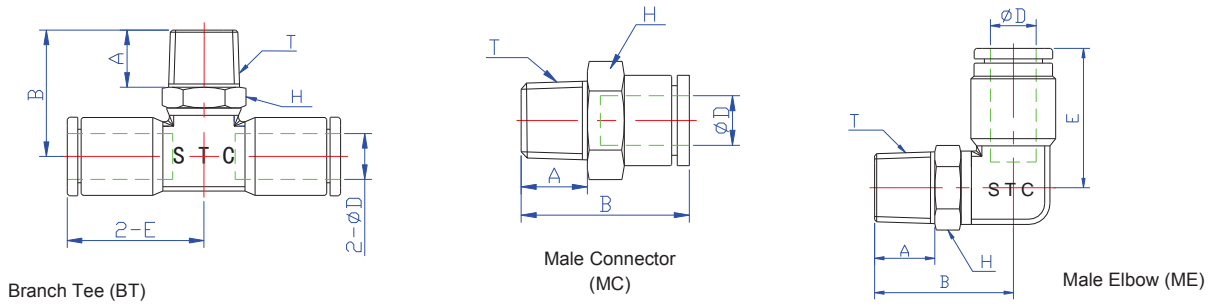
4mm	EUS 4W	20.2	RUS 4-6W	37	SUS 4W	35.1	TUS 4W	20.2	PGS 4	25	5	2.5	13
6mm	EUS 6W	22.3	RUS 6-8W	40.9	SUS 6W	38.05	TUS 6W	22.3	PGS 6	33	7	3	17
8mm	EUS 8W	23.9	RUS 8-10W	47.05	SUS 8W	42.7	TUS 8W	24.1	PGS 8	37	9	4	18
10mm	EUS 10W	30.5	RUS 10-12W	52	SUS 10W	48.4	TUS 10W	27.2	PGS 10	42	11	5	23
12mm	EUS 12W	32.2			SUS 12W	52.5	TUS 12W	31.9	PGS 12	44	13	6	23



Model		Run Tee				Tube Adaptor			
		RT			TA	TA			TA
Tube OD	T, Thread	Part No.	A	B	E	Part No.	A	B	H
1/8	10-32	RTS 1/8 10-32W	5.4	21.85	20.2	TAS 1/8 10-32	23.4	13	S11
1/8	1/8 NPT	RTS 1/8 N1/8W	8.2	19.5	20.2	TAS 1/8 N1/8	26.2	13	S11
1/8	1/4 NPT	RTS 1/8 N1/4W	11.5	22.8	20.2	TAS 1/8 N1/4	29.5	13	S14
5/32	10-32	RTS 5/32 10-32W	5.4	21.85	20.2	TAS 5/32 10-32	25.4	15	S11
5/32	1/8 NPT	RTS 5/32 N1/8W	8.2	19.5	20.2	TAS 5/32 N1/8	28.2	15	S11
5/32	1/4 NPT	RTS 5/32 N1/4W	11.5	22.8	20.2				
3/16	1/8 NPT	RTS 3/16 N1/8W	8.2	21.3	22.6	TAS 3/16 N1/8	28.2	15	S11
3/16	1/4 NPT	RTS 3/16 N1/4W	11.5	23.9	22.6	TAS 3/16 N1/4	31.5	15	S14
1/4	10-32	RTS 1/4 10-32W	5.4	20.9	22.3	TAS 1/4 10-32	28.4	18	S11
1/4	1/8 NPT	RTS 1/4 N1/8W	8.2	21.3	22.3	TAS 1/4 N1/8	31.2	18	S11
1/4	1/4 NPT	RTS 1/4 N1/4W	11.5	23.9	22.3	TAS 1/4 N1/4	34.5	18	S14
1/4	3/8 NPT	RTS 1/4 N3/8W	12.5	24.9	22.3	TAS 1/4 N3/8	35.5	18	S18
5/16	1/8 NPT	RTS 5/16 N1/8W	8.2	22.3	24.1	TAS 5/16 N1/8	34.2	21	S11
5/16	1/4 NPT	RTS 5/16 N1/4W	11.5	24.4	24.1	TAS 5/16 N1/4	37.5	21	S14
5/16	3/8 NPT	RTS 5/16 N3/8W	12.5	25.9	24.1	TAS 5/16 N3/8	38.5	21	S18
3/8	1/8 NPT	RTS 3/8 N1/8W	8.2	24.15	27.2	TAS 3/8 N1/8	34.2	21	S11
3/8	1/4 NPT	RTS 3/8 N1/4W	11.5	27.5	27.2	TAS 3/8 N1/4	37.5	21	S14
3/8	3/8 NPT	RTS 3/8 N3/8W	12.5	27.2	27.2	TAS 3/8 N3/8	38.5	21	S18
3/8	1/2 NPT	RTS 3/8 N1/2W	15	30.1	27.2	TAS 3/8 N1/2	41	21	S22
1/2	1/4 NPT	RTS 1/2 N1/4W	11.5	32.2	31.9	TAS 1/2 N1/4	37.5	21	S14
1/2	3/8 NPT	RTS 1/2 N3/8W	12.5	29.8	31.9	TAS 1/2 N3/8	38.5	21	S18
1/2	1/2 NPT	RTS 1/2 N1/2W	15	32.3	31.9	TAS 1/2 N1/2	41	21	S22

4mm	M5	RTS 4 M5W	5.4	21.85	20.2	TAS 4 M5	25.4	15	S11
4mm	1/8 BSPT	RTS 4 R1/8W	8.2	19.5	20.2	TAS 4 R1/8	28.2	15	S11
4mm	1/4 BSPT	RTS 4 R1/4W	11.5	22.8	20.2	TAS 4 1/4	31.5	15	S14
6mm	M5	RTS 6 M5W	5.4	20.9	22.3	TAS 6 M5	28.4	18	S11
6mm	1/8 BSPT	RTS 6 R1/8W	8.2	21.3	22.3	TAS 6 R1/8	31.2	18	S11
6mm	1/4 BSPT	RTS 6 R1/4W	11.5	23.9	22.3	TAS 6 R1/4	34.5	18	S14
6mm	3/8 BSPT	RTS 6 R3/8W	12.5	24.9	22.3	TAS 6 R3/8	35.5	18	S18
8mm	1/8 BSPT	RTS 8 R1/8W	8.2	22.3	24.1	TAS 8 R1/8	34.2	21	S11
8mm	1/4 BSPT	RTS 8 R1/4W	11.5	24.4	24.1	TAS 8 R1/4	37.5	21	S14
8mm	3/8 BSPT	RTS 8 R3/8W	12.5	25.9	24.1	TAS 8 R3/8	38.5	21	S18
8mm	1/2 BSPT	RTS 8 R1/2W	15	28.4	24.1	TAS 8 R1/2	41	21	S22
10mm	1/8 BSPT	RTS 10 R1/8W	8.2	24.15	27.2	TAS 10 R1/8	34.2	21	S11
10mm	1/4 BSPT	RTS 10 R1/4W	11.5	27.5	27.2	TAS 10 R1/4	37.5	21	S14
10mm	3/8 BSPT	RTS 10 R3/8W	12.5	27.2	27.2	TAS 10 R3/8	38.5	21	S18
10mm	1/2 BSPT	RTS 10 R1/2W	15	30.1	27.2	TAS 10 R1/2	41	21	S22
12mm	1/4 BSPT	RTS 12 R1/4W	11.5	32.2	31.9	TAS 12 R1/4	37.5	21	S14
12mm	3/8 BSPT	RTS 12 R3/8W	12.5	29.8	31.9	TAS 12 R3/8	38.5	21	S18
12mm	1/2 BSPT	RTS 12 R1/2W	15	32.3	31.9	TAS 12 R1/2	41	21	S22

Units in mm



Model	Branch Tee						Male Connector				Male Elbow			
	ΦD	T, Thread	H	Part No.	A	B	E	Part No.	A	B	H	Part No.	A	B
1/8	10-32	S11	BTS 1/8 10-32W	5.4	21.85	20.2	MCS 1/8 10-32W	4.8	23.2	S11	MES 1/8 10-32W	5.4	21.85	20.2
1/8	1/8 NPT	S11	BTS 1/8 N1/8W	8.2	19.5	20.2	MCS 1/8 N1/8W	8	20.4	S11	MES 1/8 N1/8W	8.2	19.5	20.2
1/8	1/4 NPT	S14	BTS 1/8 N1/4W	11.5	22.8	20.2	MCS 1/8 N1/4W	11.5	23.4	S14	MES 1/8 N1/4W	11.5	22.8	20.2
5/32"	10-32	S11	BTS 5/32 10-32W	5.4	21.85	20.2	MCS 5/32 10-32W	4.8	23.2	S11	MES 5/32 10-32W	5.4	21.85	20.2
5/32"	1/8 NPT	S11	BTS 5/32 N1/8W	8.2	19.5	20.2	MCS 5/32 N1/8W	8	20.4	S11	MES 5/32 N1/8W	8.2	19.5	20.2
5/32"	1/4 NPT	S14	BTS 5/32 N1/4W	11.5	22.8	20.2	MCS 5/32 N1/4W	11	21.5	S14	MES 5/32 N1/4W	11.5	22.8	20.2
3/16"	1/8 NPT	S11	BTS 3/16 N1/8W	8.2	21.3	22.6	MCS 3/16 N1/8W	8.2	23.6	S14	MES 3/16 N1/8W	8.2	21.3	22.6
3/16"	1/4 NPT	S14	BTS 3/16 N1/4W	11.5	23.9	22.6	MCS 3/16 N1/4W	11.5	23.6	S14	MES 3/16 N1/4W	11.5	23.9	22.6
1/4	10-32	S12	BTS 1/4 10-32W	5.4	20.9	22.3	MCS 1/4 10-32W	4.8	25.4	S14	MES 1/4 10-32W	5.4	20.9	22.3
1/4"	1/8 NPT	S11	BTS 1/4 N1/8W	8.2	21.3	22.3	MCS 1/4 N1/8W	8.2	23.6	S14	MES 1/4 N1/8W	8.2	21.3	22.3
1/4"	1/4 NPT	S14	BTS 1/4 N1/4W	11.5	23.9	22.3	MCS 1/4 N1/4W	11.5	23.6	S14	MES 1/4 N1/4W	11.5	23.9	22.3
1/4"	3/8 NPT	S18	BTS 1/4 N3/8W	12.5	24.9	22.3	MCS 1/4 N3/8W	12	24.6	S18	MES 1/4 N3/8W	12.5	24.9	22.3
5/16"	1/8 NPT	S11	BTS 5/16 N1/8W	8.2	22.3	24.1	MCS 5/16 N1/8W	8.2	30.3	S17	MES 5/16 N1/8W	8.2	22.3	23.9
5/16"	1/4 NPT	S14	BTS 5/16 N1/4W	11.5	24.4	24.1	MCS 5/16 N1/4W	11.5	29.1	S17	MES 5/16 N1/4W	11.5	24.4	23.9
5/16"	3/8 NPT	S18	BTS 5/16 N3/8W	12.5	25.9	24.1	MCS 5/16 N3/8W	12.5	25.6	S18	MES 5/16 N3/8W	12.5	25.9	23.9
5/16"	1/2 NPT	S22					MCS 5/16 N1/2W	15	31.2	S22	MES 5/16 N1/2W	15	28.5	23.9
3/8"	1/8 NPT	S11	BTS 3/8 N1/8W	8.2	24.15	27.2	MCS 3/8 N1/8W	8.2	34.7	S18	MES 3/8 N1/8W	8.2	24.65	30.5
3/8"	1/4 NPT	S14	BTS 3/8 N1/4W	11.5	27.5	27.2	MCS 3/8 N1/4W	11.5	36.4	S18	MES 3/8 N1/4W	11.5	28	30.5
3/8"	3/8 NPT	S18	BTS 3/8 N3/8W	12.5	27.2	27.2	MCS 3/8 N3/8W	12.5	32.5	S18	MES 3/8 N3/8W	12.5	27.7	30.5
3/8"	1/2 NPT	S22	BTS 3/8 N1/2W	15	30.1	27.2	MCS 3/8 N1/2W	15	31.5	S22	MES 3/8 N1/2W	15	30	30.5
1/2	1/4 NPT	S14	BTS 1/2 N1/4W	11.5	32.2	31.9	MCS 1/2 N1/4W	11.5	40.2	S22	MES 1/2 N1/4W	11.5	32.5	32.2
1/2"	3/8 NPT	S18	BTS 1/2 N3/8W	12.5	29.8	31.9	MCS 1/2 N3/8W	12.5	36.7	S22	MES 1/2 N3/8W	12.5	29.6	32.2
1/2"	1/2 NPT	S22	BTS 1/2 N1/2W	15	32.3	31.9	MCS 1/2 N1/2W	15	33.7	S22	MES 1/2 N1/2W	15	32.6	32.2

4	M5	S11	BTS 4 M5W	5.4	21.85	20.2	MCS 4 M5W	4.8	23.2	S11	MES 4 M5W	5.4	21.85	20.2
4	1/8 BSPT	S11	BTS 4 R1/8W	8.2	19.5	20.2	MCS 4 R1/8W	8	20.4	S11	MES 4 R1/8W	8.2	19.5	20.2
4	1/4 BSPT	S14	BTS 4 R1/4W	11.5	22.8	20.2	MCS 4 R1/4W	11.5	23.4	S14	MES 4 R1/4W	11.5	22.8	20.2
6	M5	S11	BTS 6 M5W	5.4	20.9	22.3	MCS 6 M5W	4.8	25.4	S14	MES 6 M5W	5.4	20.9	22.3
6	1/8 BSPT	S11	BTS 6 R1/8W	8.2	21.3	22.3	MCS 6 R1/8W	8.2	23.6	S14	MES 6 R1/8W	8.2	21.3	22.3
6	1/4 BSPT	S14	BTS 6 R1/4W	11.5	23.9	22.3	MCS 6 R1/4W	11.5	23.6	S14	MES 6 R1/4W	11.5	23.9	22.3
6	3/8 BSPT	S18	BTS 6 R3/8W	12.5	24.9	22.3	MCS 6 R3/8W	12	24.6	S18	MES 6 R3/8W	12.5	24.9	22.3
8	1/8 BSPT	S11	BTS 8 R1/8W	8.2	22.3	24.1	MCS 8 R1/8W	8.2	30.3	S17	MES 8 R1/8W	8.2	22.3	23.9
8	1/4 BSPT	S14	BTS 8 R1/4W	11.5	24.4	24.1	MCS 8 R1/4W	11.5	29.1	S17	MES 8 R1/4W	11.5	24.4	23.9
8	3/8 BSPT	S18	BTS 8 R3/8W	12.5	25.9	24.1	MCS 8 R3/8W	12.5	25.6	S18	MES 8 R3/8W	12.5	25.9	23.9
8	1/2 BSPT	S22	BTS 8 R1/2W	15	28.4	24.1	MCS 8 R1/2W	15	30.1	S22	MES 8 R1/2W	15	28.4	23.9
10	1/8 BSPT	S11	BTS 10 R1/8W	8.2	24.15	27.2	MCS 10 R1/8W	8.2	34.7	S18	MES 10 R1/8W	8.2	24.65	30.5
10	1/4 BSPT	S14	BTS 10 R1/4W	11.5	27.5	27.2	MCS 10 R1/4W	11.5	36.5	S18	MES 10 R1/4W	11.5	28	30.5
10	3/8 BSPT	S18	BTS 10 R3/8W	12.5	27.2	27.2	MCS 10 R3/8W	12.5	32.5	S18	MES 10 R3/8W	12.5	27.7	30.5
10	1/2 BSPT	S22	BTS 10 R1/2W	15	30.1	27.2	MCS 10 R1/2W	15	31.5	S22	MES 10 R1/2W	15	30	30.5
12	1/4 BSPT	S14	BTS 12 R1/4W	11.5	32.2	31.9	MCS 12 R1/4W	11.5	40.2	S22	MES 12 R1/4W	11.5	32.5	32.2
12	3/8 BSPT	S18	BTS 12 R3/8W	12.5	29.8	31.9	MCS 12 R3/8W	12.5	36.7	S22	MES 12 R3/8W	12.5	29.6	32.2
12	1/2 BSPT	S22	BTS 12 R1/2W	15	32.3	31.9	MCS 12 R1/2W	15	33.7	S22	MES 12 R1/2W	15	32.6	32.2

Units in mm