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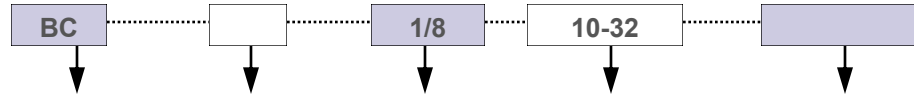
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STC FITTINGS NUMBERING SYSTEM



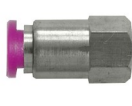

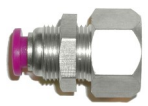

Ordering Part No. =
(eg. BC 1/8 10-32)



Fitting Name	Model	Material/Type	Tube OD	Thread Size N= NPT, R=PT, G=PP, U=UNIFIT	Release Button Color
BULKHEAD CONNECTOR	BC				
BRANCH TEE	BT				
BULKHEAD UNION	BU				
COMPACT MALE CONNECTOR	CC				
CONTROL VALVE (meter-in)	CI			10-32	
CONTROL VALVE (meter-out)	CV			N1/8	
CROSS UNION	CU			N1/4	
EXTENDED ELBOW	EE			N3/8	
FEMALE CONNECTOR	FC			N1/2	
FEMALE ELBOW	FE		(inch)		
INLINE FLOW CONTROL	FV		1/8		
MALE ANGLE	MA		5/32		
MALE CONNECTOR	MC		3/16	M5	
MALE ELBOW	ME		1/4	M6	
MALE MANIFOLD	MM		5/16	R1/8	
MANIFOLD UNION	MU		3/8	R1/4	
PLUG-IN ELBOW (LJ)	PE		1/2	R3/8	
PLUG	PG	Blank = Composite		R1/2	
REDUCED BRANCH	RB				Blank = Purple/Metal Color
REDUCER ELBOW (GJ)	RE	B = Nickel Plated Brass			B = Blue
REDUCED TEE	RT	M = Miniature Composite Fittings			K = Black
REDUCED UNION	RU	S = 316 Stainless Steel			
RUN TEE	RT		(mm)		
STACK ELBOW	SE		4	G1/8	
STRAIGHT UNION	SU		6	G1/4	
STEM COUPLING (IJ)	SC		8	G3/8	
STEM REDUCER (IG)	SR		10		
TEE UNION	TU		12		
TUBE REDUCER	TR			U1/8	
UNIVERSAL ELBOW	UE			U1/4	
Y CONNECTOR	YC			U3/8	
Y UNION	YU			U1/2	
UNION VALVE	UV				
CHECK VALVE	KV				
INLET FLOW CONTROL	AS				
INLINE FLOW CONTROL	ASC				
MUFFLER	BSL				
QUICK EXHAUST VALVE	QE				
SHUTTLE VALVE	ST				
SPEED CONTROL MUFFLER	BESL				



STC Composite Push-In Fittings List Price

Composite Fittings													
Model		Universal Elbow		Extended Elbow		Female Connector		Female Elbow		Bulkhead Connector		Control Valve CV=meter-out; CI= meter-in	
Tube OD	Pipe Size	UE		EE		FC		FE		BC		CV or CI	
1/8	10-32UNF	UE 1/8 10-32	\$2.51			FC 1/8 10-32	\$1.41	FE 1/8 10-32	\$2.00			CV 1/8 10-32	\$6.17
1/8	NPT1/8	UE 1/8 N1/8	\$2.51			FC 1/8 N1/8	\$1.41	FE 1/8 N1/8	\$2.00	BC 1/8 N1/8	\$2.65	CV 1/8 N1/8	\$6.17
5/32	10-32UNF	UE 5/32 10-32	\$2.51	EE 5/32 10-32	\$2.00	FC 5/32 10-32	\$1.41	FE 5/32 10-32	\$2.00			CV 5/32 10-32	\$6.17
5/32	NPT1/8	UE 5/32 N1/8	\$2.51	EE 5/32 N1/8	\$2.00	FC 5/32 N1/8	\$1.41	FE 5/32 N1/8	\$2.00	BC 5/32 N1/8	\$2.65	CV 5/32 N1/8	\$6.17
5/32	NPT1/4					FC 5/32 N1/4	\$1.41	FE 5/32 N1/4	\$2.00	BC 5/32 N1/4	\$2.65	CV 5/32 N1/4	\$6.17
3/16	10-32UNF	UE 3/16 10-32	\$3.00					FE 3/16 10-32	\$2.00				
3/16	NPT1/8	UE 3/16 N1/8	\$3.00	EE 3/16 N1/8	\$2.00			FE 3/16 N1/8	\$2.00	BC 3/16 N1/8	\$2.65	CV 3/16 N1/8	\$6.17
3/16	NPT1/4	UE 3/16 N1/4	\$3.00	EE 3/16 N1/4	\$2.00			FE 3/16 N1/4	\$2.00	BC 3/16 N1/4	\$2.65		
3/16	NPT3/8			EE 3/16 N3/8	\$2.53								
1/4	10-32UNF	UE 1/4 10-32	\$3.00					FE 1/4 10-32	\$2.00			CV 1/4 10-32	\$6.17
1/4	NPT1/8	UE 1/4 N1/8	\$3.00	EE 1/4 N1/8	\$2.00	FC 1/4 N1/8	\$1.41	FE 1/4 N1/8	\$2.00	BC 1/4 N1/8	\$3.17	CV 1/4 N1/8	\$6.67
1/4	NPT1/4	UE 1/4 N1/4	\$3.42	EE 1/4 N1/4	\$2.00	FC 1/4 N1/4	\$1.60	FE 1/4 N1/4	\$2.00	BC 1/4 N1/4	\$3.62	CV 1/4 N1/4	\$6.67
1/4	NPT3/8			EE 1/4 N3/8	\$2.53			FE 1/4 N3/8	\$2.53			CV 1/4 N3/8	\$8.50
5/16	NPT1/8	UE 5/16 N1/8	\$3.12	EE 5/16 N1/8	\$2.16	FC 5/16 N1/8	\$1.61	FE 5/16 N1/8	\$2.16	BC 5/16 N1/8	\$3.30	CV 5/16 N1/8	\$6.67
5/16	NPT1/4	UE 5/16 N1/4	\$3.12	EE 5/16 N1/4	\$2.16	FC 5/16 N1/4	\$1.61	FE 5/16 N1/4	\$2.16	BC 5/16 N1/4	\$3.62	CV 5/16 N1/4	\$6.67
5/16	NPT3/8	UE 5/16 N3/8	\$3.73	EE 5/16 N3/8	\$2.38	FC 5/16 N3/8	\$1.90	FE 5/16 N3/8	\$2.38			CV 5/16 N3/8	\$8.50
3/8	NPT1/8	UE 3/8 N1/8	\$3.73										
3/8	NPT1/4	UE 3/8 N1/4	\$3.73	EE 3/8 N1/4	\$2.98	FC 3/8 N1/4	\$2.15	FE 3/8 N1/4	\$2.98	BC 3/8 N1/4	\$3.62	CV 3/8 N1/4	\$7.28
3/8	NPT3/8	UE 3/8 N3/8	\$4.03	EE 3/8 N3/8	\$2.98	FC 3/8 N3/8	\$2.15	FE 3/8 N3/8	\$2.98	BC 3/8 N3/8	\$4.27	CV 3/8 N3/8	\$8.50
3/8	NPT1/2			EE 3/8 N1/2	\$4.47	FC 3/8 N1/2	\$3.25	FE 3/8 N1/2	\$4.47			CV 3/8 N1/2	\$10.15
1/2	NPT1/4			EE 1/2 N1/4	\$4.47	FC 1/2 N1/4	\$3.25						
1/2	NPT3/8	UE 1/2 N3/8	\$4.36	EE 1/2 N3/8	\$4.47	FC 1/2 N3/8	\$3.25			BC 1/2 N3/8	\$4.58	CV 1/2 N3/8	\$9.72
1/2	NPT1/2	UE 1/2 N1/2	\$4.65	EE 1/2 N1/2	\$4.47					BC 1/2 N1/2	\$4.91	CV 1/2 N1/2	\$10.15
4 mm	M5X0.8	UE 4 M5	\$2.51	EE 4 M5	\$2.00			FE 4 M5	\$2.00			CV 4 M5	\$6.17
4 mm	M6X1	UE 4 M6	\$2.51	EE 4 M6	\$2.00			FE 4 M6	\$2.00			CV 4 M6	\$6.17
4 mm	R1/8	UE 4 R1/8	\$2.51	EE 4 R1/8	\$2.00	FC 4 R1/8	\$1.41	FE 4 R1/8	\$2.00	BC 4 R1/8	\$2.65	CV 4 R1/8	\$6.17
4 mm	R1/4	UE 4 R1/4	\$3.00	EE 4 R1/4	\$2.00	FC 4 R1/4	\$1.41	FE 4 R1/4	\$2.00	BC 4 R1/4	\$2.65	CV 4 R1/4	\$6.67
6 mm	M5X0.8	UE 6 M5	\$3.00	EE 6 M5	\$2.00			FE 6 M5	\$2.00			CV 6 M5	\$6.17
6 mm	M6X1	UE 6 M6	\$3.00	EE 6 M6	\$2.00			FE 6 M6	\$2.00			CV 6 M6	\$6.17
6 mm	R1/8	UE 6 R1/8	\$3.00	EE 6 R1/8	\$2.00	FC 6 R1/8	\$1.41	FE 6 R1/8	\$2.00	BC 6 R1/8	\$3.17	CV 6 R1/8	\$6.67
6 mm	R1/4	UE 6 R1/4	\$3.42	EE 6 R1/4	\$2.00	FC 6 R1/4	\$1.60	FE 6 R1/4	\$2.00	BC 6 R1/4	\$3.62	CV 6 R1/4	\$6.67
6 mm	R3/8	UE 6 R3/8	\$3.73	EE 6 R3/8	\$2.53	FC 6 R3/8	\$1.90	FE 6 R3/8	\$2.53	BC 6 R3/8	\$3.95	CV 6 R3/8	\$8.50
6 mm	R1/2			EE 6 R1/2	\$3.95								
8 mm	R1/8	UE 8 R1/8	\$3.12	EE 8 R1/8	\$2.16	FC 8 R1/8	\$1.61	FE 8 R1/8	\$2.16	BC 8 R1/8	\$3.30	CV 8 R1/8	\$6.67
8 mm	R1/4	UE 8 R1/4	\$3.12	EE 8 R1/4	\$2.16	FC 8 R1/4	\$1.61	FE 8 R1/4	\$2.16	BC 8 R1/4	\$3.62	CV 8 R1/4	\$6.67
8 mm	R3/8	UE 8 R3/8	\$3.73	EE 8 R3/8	\$2.38	FC 8 R3/8	\$1.90	FE 8 R3/8	\$2.38	BC 8 R3/8	\$3.95	CV 8 R3/8	\$6.67
8 mm	R1/2	UE 8 R1/2	\$4.36	EE 8 R1/2	\$3.95	FC 8 R1/2	\$3.12			BC 8 R1/2	\$4.58	CV 8 R1/2	\$8.50
10 mm	R1/8			EE 10 R1/8	\$2.98	FC 10 R1/8	\$2.15	FE 10 R1/8	\$2.98	BC 10 R1/8	\$3.62		
10 mm	R1/4	UE 10 R1/4	\$3.73	EE 10 R1/4	\$2.98	FC 10 R1/4	\$2.15	FE 10 R1/4	\$2.98	BC 10 R1/4	\$3.95	CV 10 R1/4	\$7.28
10 mm	R3/8	UE 10 R3/8	\$4.03	EE 10 R3/8	\$2.98	FC 10 R3/8	\$2.15	FE 10 R3/8	\$2.98	BC 10 R3/8	\$4.27	CV 10 R3/8	\$8.50
10 mm	R1/2	UE 10 R1/2	\$4.36	EE 10 R1/2	\$4.47	FC 10 R1/2	\$3.25	FE 10 R1/2	\$4.47	BC 10 R1/2	\$4.58	CV 10 R1/2	\$10.15
12 mm	R1/4	UE 12 R1/4	\$4.36	EE 12 R1/4	\$4.47	FC 12 R1/4	\$3.25	FE 12 R1/4	\$4.47	BC 12 R1/4	\$4.27	CV 12 R1/4	\$9.72
12 mm	R3/8	UE 12 R3/8	\$4.36	EE 12 R3/8	\$4.47	FC 12 R3/8	\$3.25	FE 12 R3/8	\$4.47	BC 12 R3/8	\$4.58	CV 12 R3/8	\$9.72
12 mm	R1/2	UE 12 R1/2	\$4.65	EE 12 R1/2	\$4.47	FC 12 R1/2	\$3.25	FE 12 R1/2	\$4.47	BC 12 R1/2	\$4.91	CV 12 R1/2	\$10.15

Composite, Stainless Steel, and Nickel-Plated Brass Push-In Fittings Specifications

A. Installation of Pipe Fittings:

1. Tighten fitting by hand, then turn it 2 to 3 turns with a wrench until it reaches the desire torque listed. If the fitting 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 tubing into the fitting until it comes to a dead stop.
2. Pull the tubing back gently 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.
Hard metal tubing can be used for all metal Stainless Steel and all Brass fittings if tubing is pre-grooved.

C. Removal of Tubing from Fitting:

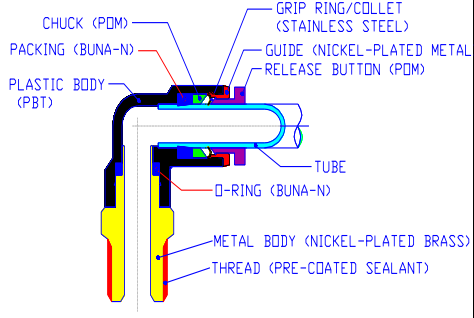
1. Push in evenly on the two long oval sides of the Release Button.
2. Pull out the tube while keeping the Release Button depressed.
3. To reuse the tubing; cut off the lodged portion of the previously used tubing evenly and perpendicularly.

D. Recommended Tubing Material, Size and Hardness Requirements:

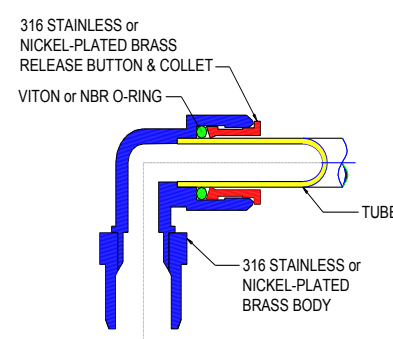
Tubing Material	Specified Size	Hardness (Durometer)
Polyurethane	+/- 0.006" (+/-0.15 mm)	Shore A 85 or higher
Polyethylene	+/- 0.004" (+/-0.1 mm)	Shore D 44 or higher
Polypropylene	+/- 0.004" (+/-0.1 mm)	Shore D 44 or higher
Nylon	+/- 0.004" (+/-0.1 mm)	Shore D 44 or higher
Pre-grooved Metal Tubing	+/-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

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

	Composite Fittings		Stainless Steel Fittings	Nickel-Plated Brass Fittings
	(Standard-Purple Button)	(K Series-Black Button)		
Operating Pressure Range	0 - 150 PSI (0 - 990 kpa)	0 - 180 PSI (0 - 1200 kpa)	0 - 250 PSI (0 - 1650 kpa)	0 - 250 PSI (0 - 1650 kpa)
Vacuum	0 - 29.5 in Hg (750 mm Hg)		0 - 29.5 in Hg (750 mm Hg)	0 - 29.5 in Hg (750 mm Hg)
Operating Temperature	32 - 140 °F (0 - 60 °C)		5 - 230 °F (-15 to 110 °C) Can be sterilized up to 280°F (138°C)	5 - 230 °F (-15 to 110 °C)
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene		Polyurethane, Nylon, Polyethylene, Polypropylene, and Hard metal tubing (tubing must be pre-grooved)	
Metal Body	Brass, Nickel Plated		T316 Stainless Steel	Nickel-Plated Brass
Plastic Body	PBT (Polybutylene terephthalate)		None	None
Release Button	POM (Poly oxy methylene copolymer)		300 series Stainless Steel	Nickel-Plated Brass
Grip Ring or Collet	300 series Stainless Steel		300 series Stainless Steel	300 series Stainless Steel
O-ring	NBR (Buna-N)		VITON	NBR/VITON/EPDM
Thread Sealant	Teflon		None	Teflon

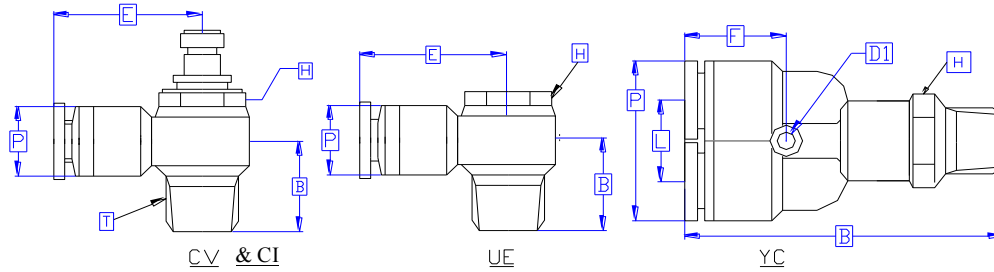


SCHEMATIC OF TYPICAL COMPOSITE FITTING CONSTRUCTION



SCHEMATIC OF TYPICAL 316 STAINLESS or NICKEL-PLATED BRASS FITTING CONSTRUCTION

STC Composite Push-In Fittings Dimensions



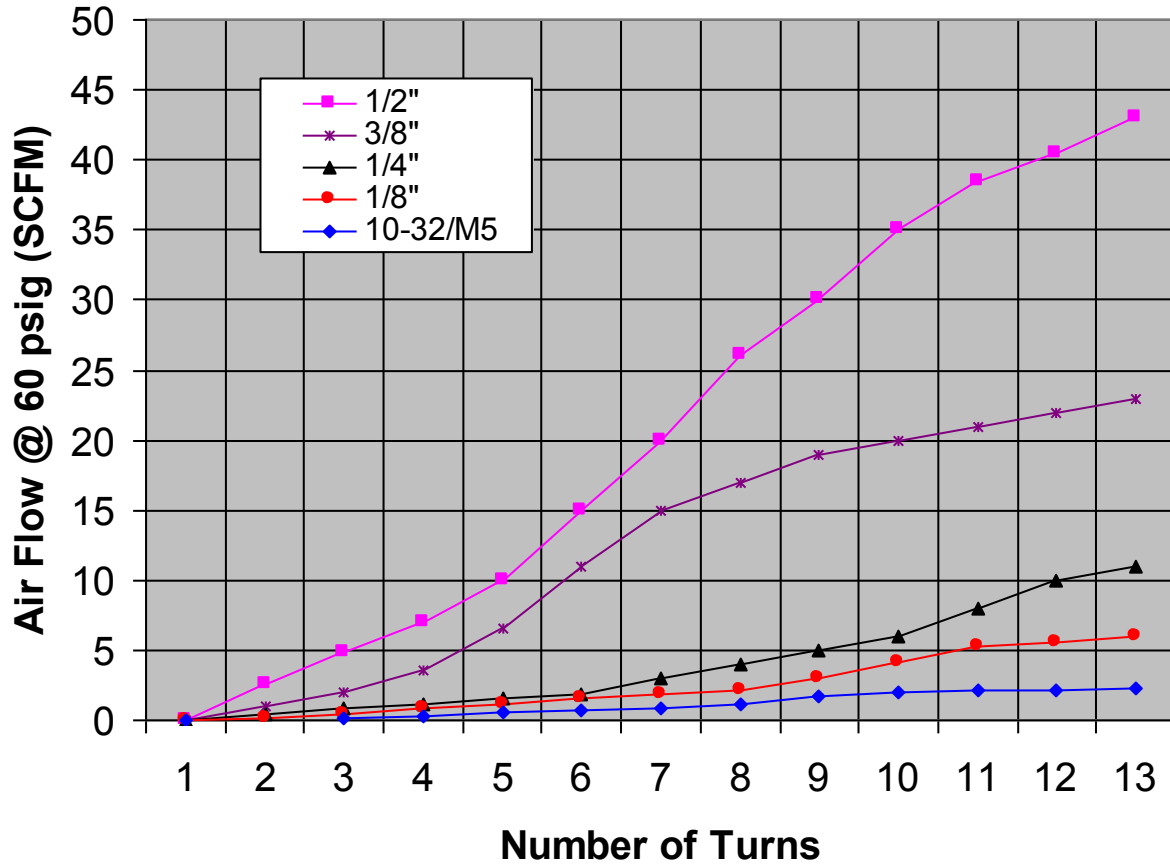
TUBE OD	PIPE SIZE	PART NO.	PART NO.	B	E	H	P	PART NO.	B	D1	F	H	L	P
1/8	10-32	CV 1/8 10-32	UE 1/8 10-32	0.44	0.80	5/16	0.41							
1/8	NPT1/8	CV 1/8 N1/8	UE 1/8 N1/8	0.59	0.88	7/16	0.41							
5/32	10-32	CV 5/32 10-32	UE 5/32 10-32	0.44	0.80	5/16	0.41	YC 5/32 10-32	1.50	0.12	0.57	7/16	0.41	0.82
5/32	NPT1/8	CV 5/32 N1/8	UE 5/32 N1/8	0.59	0.88	7/16	0.41	YC 5/32 N1/8	1.63	0.12	0.56	7/16	0.41	0.82
5/32	NPT1/4							YC 5/32 N1/4	1.74	0.12	0.57	9/16	0.41	0.82
3/16	10-32		UE 3/16 10-32	0.49	0.94	0.31	0.44	YC 3/16 10-32	1.62	0.12	0.58	7/16	0.45	0.89
3/16	NPT1/8	CV 3/16 N1/8	UE 3/16 N1/8	0.60	0.99	0.39	0.44	YC 3/16 N1/8	1.68	0.12	0.59	7/16	0.45	0.89
3/16	NPT1/4		UE 3/16 N1/4	0.70	1.07	0.55	0.44	YC 3/16 N1/4	1.84	0.12	0.60	9/16	0.45	0.89
3/16	NPT3/8		UE 3/16 N3/8	0.47	0.96	0.31	0.44	YC 3/16 N3/8	1.91	0.12	0.61	11/16	0.45	0.90
1/4	10-32	CV 1/4 10-32	UE 1/4 10-32	0.47	0.92	5/16	0.52	YC 1/4 10-32	1.66	0.12	0.63	1/2	0.53	1.06
1/4	NPT1/8	CV 1/4 N1/8	UE 1/4 N1/8	0.82	0.94	7/16	0.52	YC 1/4 N1/8	0.18	0.12	0.62	1/2	0.53	1.06
1/4	NPT1/4	CV 1/4 N1/4	UE 1/4 N1/4	0.73	1.03	9/16	0.52	YC 1/4 N1/4	1.86	0.12	0.62	9/16	0.53	1.06
1/4	NPT3/8	CV 1/4 N3/8		0.85	1.10	0.74	0.51	YC 1/4 N3/8	1.93	0.12	0.61	11/16	0.53	1.06
5/16	NPT1/8	CV 5/16 N1/8	UE 5/16 N1/8	0.59	1.04	0.39	0.58	YC 5/16 N1/8	1.81	0.12	0.65	7/16	0.58	1.15
5/16	NPT1/4	CV 5/16 N1/4	UE 5/16 N1/4	0.71	1.13	0.56	0.58	YC 5/16 N1/4	1.89	0.12	0.64	9/16	0.58	1.17
5/16	NPT3/8	CV 5/16 N3/8	UE 5/16 N3/8	0.85	1.19	3/4	0.58	YC 5/16 N3/8	1.96	0.12	0.65	11/16	0.58	1.15
3/8	NPT1/8							YC 3/8 N1/8	2.28	0.16	0.76	9/16	0.71	1.42
3/8	NPT1/4	CV 3/8 N1/4	UE 3/8 N1/4	0.81	1.26	9/16	0.71	YC 3/8 N1/4	2.39	0.16	0.76	9/16	0.71	1.42
3/8	NPT3/8	CV 3/8 N3/8	UE 3/8 N3/8	0.94	1.26	3/4	0.72	YC 3/8 N3/8	2.44	0.16	0.77	11/16	0.71	1.42
3/8	NPT1/2	CV 3/8 N1/2		0.99	1.40	0.94	0.71	YC 3/8 N1/2	2.54	0.16	0.75	7/8	0.71	1.41
1/2	NPT1/4							YC 1/2 N1/4	2.43	0.16	0.79	11/16	0.85	1.70
1/2	NPT3/8	CV 1/2 N3/8	UE 1/2 N3/8	0.94	1.35	3/4	0.86	YC 1/2 N3/8	2.50	0.16	0.78	11/16	0.85	1.70
1/2	NPT1/2	CV 1/2 N1/2	UE 1/2 N1/2	0.82	1.12	3/4	0.86	YC 1/2 N1/2	2.61	0.16	0.80	7/8	0.85	1.70
Tube OD	Pipe Size	Part No.	PART NO.	B	E	H	P	PART NO.	B	D1	F	H	P	P
4	M5	CV 4 M5	UE 4 M5	10.5	20.7	8	10.5	YC 4 M5	38.8	3.0	13.8	10	10.5	21.1
4	M6	CV 4 M6	UE 4 M6	12.0	20.6	8	10.5	YC 4 M6	38.5	3.0	13.9	10	10.5	21.1
4	R1/8	CV 4 R1/8	UE 4 R1/8	14.9	22.2	10	10.5	YC 4 R1/8	40.1	3.0	14.3	10	10.5	21.1
4	R1/4	CV 4 R1/4	UE 4 R1/4	16.3	27.3	14	10.5	YC 4 R1/4	42.5	3.0	13.9	14	10.5	20.9
6	M5	CV 6 M5	UE 6 M5	12.5	23.1	8	13.2	YC 6 M5	41.6	3.0	15.5	12	13.4	26.7
6	M6	CV 6 M6	UE 6 M6	12.8	23.8	8	13.2	YC 6 M6	42.8	3.0	15.3	12	13.4	26.7
6	R1/8	CV 6 R1/8	UE 6 R1/8	14.8	23.6	10	13.2	YC 6 R1/8	44.3	3.0	15.5	12	13.4	26.7
6	R1/4	CV 6 R1/4	UE 6 R1/4	16.6	25.5	14	13.2	YC 6 R1/4	44.8	3.0	15.3	14	13.4	26.7
6	R3/8	CV 6 R3/8	UE 6 R3/8	19.5	27.8	19	13.2	YC 6 R3/8	47.6	3.0	15.4	17	13.4	26.8
6	R1/2							YC 6 R1/2	50.6	3.0	15.1	21	13.4	26.8
8	R1/8	CV 8 R1/8	UE 8 R1/8	15.2	26.5	10	14.8	YC 8 R1/8	45.4	3.0	16.9	14	14.6	29.2
8	R1/4	CV 8 R1/4	UE 8 R1/4	16.4	27.8	14	14.8	YC 8 R1/4	46.4	3.0	16.9	14	14.6	29.3
8	R3/8	CV 8 R3/8	UE 8 R3/8	20.1	31.4	19	14.8	YC 8 R3/8	48.3	3.0	15.7	17	14.6	29.3
8	R1/2	CV 8 R1/2	UE 8 R1/2	22.8	30.3	24	14.8	YC 8 R1/2	50.5	3.0	17.1	21	14.6	29.2
10	R1/8							YC 10 R1/8	57.0	4.0	21.0	17	18.0	36.1
10	R1/4	CV 10 R1/4	UE 10 R1/4	19.5	34.0	14	18.4	YC 10 R1/4	59.3	4.0	21.2	17	18.0	36.1
10	R3/8	CV 10 R3/8	UE 10 R3/8	21.2	33.4	19	18.4	YC 10 R3/8	60.5	4.0	20.0	17	18.0	36.1
10	R1/2	CV 10 R1/2	UE 10 R1/2	25.0	35.2	24	18.4	YC 10 R1/2	62.9	4.0	21.4	21	18.0	36.1
12	R1/4	CV 12 R1/4	UE 12 R1/4	21.3	34.2	14	20.3	YC 12 R1/4	61.4	4.0	21.9	19	20.8	41.5
12	R3/8	CV 12 R3/8	UE 12 R3/8	22.4	34.2	19	20.3	YC 12 R3/8	63.4	4.0	21.8	19	20.8	41.5
12	R1/2	CV 12 R1/2	UE 12 R1/2	26.3	37.2	24	20.3	YC 12 R1/2	65.5	4.0	21.8	21	20.8	41.5

Unit: Inch size fittings in inch; Metric fittings in mm



STC Composite Angle Flow Control Valves Flow Rates

STC ANGLE FLOW CONTROL VALVES AIR FLOW CHARACTERISTICS



Special Features:

- Complete rotation of the valve body around the bolt allows for optimum positioning of tubing
- Compact in size provide space saving installations
- Special adjustment needle design allows large adjustment ranges with high precision
- Adjustment needles and banjo bodies are retained, preventing accidental loss of needle or lock nut