

STC

Valves & Pneumatic Components

Push-In
Fittings

SS Push-In &
Compression
Fittings

Manual &
Solenoid
Process
Valves

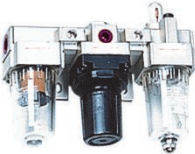
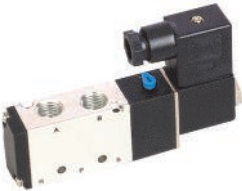
Air & Electric
Actuated
Valves

Filter-
Regulator-
Lubricator

Solenoid &
Air Pilot
Valves

Manual Air
Valves

Air
Cylinders

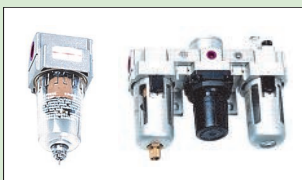
				
				
	Precision Engineered Fine Quality TM Advanced Design Excellent Prices			
				
				
				
				



connects *fluid* power to industrial automation™

Website: StcValve.com

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Composite Push-In Fittings

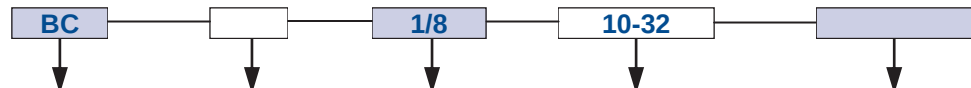


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STC Fittings Numbering System

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



Fitting Name	Model	Material/Type	Tube OD	Thread Size /Stem/Tube	Options	
AIR INLINE FLOW CONTROL	AS	Blank = Composite M = Miniature Composite Fittings	(inch)	THREAD SIZE:	Release Button Color Blank = Purple/Metal Color K = Black	
AIR FLOW CONTROL (panel mount)	ASC			N= NPT		
BRANCH TEE	BT			R=BSPT (British Standard Taper Thread)		
BRASS MUFFLER	BSL			G=BSPP (British Standard Parallel Thread)		
BRASS SPEED CONTROL MUFFLER	BESL			U=Universal thread (fits NPT, R & G)		
BULKHEAD CONNECTOR	BC			10-32		
BULKHEAD UNION	BU			N1/8		
CHECK VALVE	KV			N1/4		
COMPACT MALE CONNECTOR	CC			N3/8		
CONTROL VALVE (meter-in)	CI			N1/2		
CONTROL VALVE (meter-out)	CV					
CROSS UNION	CU					
ELBOW REDUCER	ER					
ELBOW UNION	EU					
EXTENDED ELBOW	EE					
FEMALE CONNECTOR	FC					
FEMALE ELBOW	FE					
FLOW CONTROL VALVE (inline)	FV					
MALE ANGLE	MA					
MALE CONNECTOR	MC					
MALE ELBOW	ME					
MALE MANIFOLD	MM					
MANIFOLD UNION	MU					
PLUG	PG					
PLUG-IN ELBOW	PE					
QUICK EXHAUST VALVE	QE					
REDUCED BRANCH	RB					
REDUCED ELBOW	RE					
REDUCED UNION	RU					
RUN TEE	RT					
STACK ELBOW	SE					
SHUTTLE VALVE	ST					
STEM COUPLING	SC					
STEM REDUCER	SR					
STRAIGHT UNION	SU					
TEE UNION	TU					
TEE UNION REDUCER	TU					
TUBE ADAPTOR	TA					
TUBE REDUCER	TR					
UNION VALVE	UV					
UNIVERSAL ELBOW	UE					
Y CONNECTOR	YC					
Y REDUCER	YR					
Y UNION	YU					
			(mm)			
				4	U1/8	
				6	U1/4	
				8	U3/8	
			10	U1/2		
			12			
			16	STEM SIZE:		
				1/8-1/2"		
				4-12 mm		

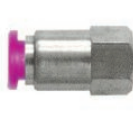
Composite Push-In Air Fittings List Price



Composite Fittings													
Model		Male Connector with Internal Hex		Compact Male Connector with Internal Hex		Male Elbow		Branch Tee		Run Tee		Y Connector	
Tube OD	Pipe Size	MC		CC		ME		BT		RT		YC	
1/8	10-32UNF	MC 1/8 10-32	\$1.17	CC 1/8 10-32	\$1.17	ME 1/8 10-32	\$1.69	BT 1/8 10-32	\$2.61	RT 1/8 10-32	\$2.38	YC 1/8 10-32	\$2.38
1/8	NPT1/8	MC 1/8 N1/8	\$1.17	CC 1/8 N1/8	\$1.17	ME 1/8 N1/8	\$1.69	BT 1/8 N1/8	\$2.61	RT 1/8 N1/8	\$2.63	YC 1/8 N1/8	\$2.38
1/8	NPT1/4	MC 1/8 N1/4	\$1.17	CC 1/8 N1/4	\$1.17	ME 1/8 N1/4	\$1.69	BT 1/8 N1/4	\$2.51				
5/32	10-32UNF	MC 5/32 10-32	\$1.17	CC 5/32 10-32	\$1.17	ME 5/32 10-32	\$1.69	BT 5/32 10-32	\$2.61	RT 5/32 10-32	\$2.38	YC 5/32 10-32	\$2.38
5/32	NPT1/8	MC 5/32 N1/8	\$1.17	CC 5/32 N1/8	\$1.17	ME 5/32 N1/8	\$1.69	BT 5/32 N1/8	\$2.61	RT 5/32 N1/8	\$2.38	YC 5/32 N1/8	\$2.38
5/32	NPT1/4	MC 5/32 N1/4	\$1.17	CC 5/32 N1/4	\$1.17	ME 5/32 N1/4	\$1.69	BT 5/32 N1/4	\$2.61	RT 5/32 N1/4	\$2.63	YC 5/32 N1/4	\$2.38
3/16	10-32UNF	MC 3/16 10-32	\$1.17			ME 3/16 10-32	\$1.69	BT 3/16 10-32	\$2.61	RT 3/16 10-32	\$2.63	YC 3/16 10-32	\$2.63
3/16	NPT1/8	MC 3/16 N1/8	\$1.17			ME 3/16 N1/8	\$1.69	BT 3/16 N1/8	\$2.61	RT 3/16 N1/8	\$2.63	YC 3/16 N1/8	\$2.63
3/16	NPT1/4	MC 3/16 N1/4	\$1.17			ME 3/16 N1/4	\$1.69	BT 3/16 N1/4	\$2.61	RT 3/16 N1/4	\$2.63	YC 3/16 N1/4	\$2.63
3/16	NPT3/8	MC 3/16 N3/8	\$1.17			ME 3/16 N3/8	\$1.69	BT 3/16 N3/8	\$2.61	RT 3/16 N3/8	\$2.63	YC 3/16 N3/8	\$2.63
1/4	10-32UNF	MC 1/4 10-32	\$1.17	CC 1/4 10-32	\$1.17	ME 1/4 10-32	\$1.69	BT 1/4 10-32	\$2.61	RT 1/4 10-32	\$3.15	YC 1/4 10-32	\$2.63
1/4	NPT1/8	MC 1/4 N1/8	\$1.17	CC 1/4 N1/8	\$1.47	ME 1/4 N1/8	\$1.69	BT 1/4 N1/8	\$2.64	RT 1/4 N1/8	\$3.59	YC 1/4 N1/8	\$2.63
1/4	NPT1/4	MC 1/4 N1/4	\$1.17	CC 1/4 N1/4	\$1.17	ME 1/4 N1/4	\$1.69	BT 1/4 N1/4	\$2.85	RT 1/4 N1/4	\$3.59	YC 1/4 N1/4	\$2.84
1/4	NPT3/8	MC 1/4 N3/8	\$1.69	CC 1/4 N3/8	\$2.50	ME 1/4 N3/8	\$2.01	BT 1/4 N3/8	\$3.15	RT 1/4 N3/8	\$3.92	YC 1/4 N3/8	\$3.15
5/16	NPT1/8	MC 5/16 N1/8	\$1.17	CC 5/16 N1/8	\$1.17	ME 5/16 N1/8	\$1.87	BT 5/16 N1/8	\$2.96	RT 5/16 N1/8	\$3.28	YC 5/16 N1/8	\$2.96
5/16	NPT1/4	MC 5/16 N1/4	\$1.17	CC 5/16 N1/4	\$1.17	ME 5/16 N1/4	\$1.87	BT 5/16 N1/4	\$2.96	RT 5/16 N1/4	\$3.59	YC 5/16 N1/4	\$2.96
5/16	NPT3/8	MC 5/16 N3/8	\$1.69	CC 5/16 N3/8	\$1.69	ME 5/16 N3/8	\$2.13	BT 5/16 N3/8	\$3.28	RT 5/16 N3/8	\$3.92	YC 5/16 N3/8	\$3.28
3/8	NPT1/8	MC 3/8 N1/8	\$1.74	CC 3/8 N1/8	\$2.50	ME 3/8 N1/8	\$2.13	BT 3/8 N1/8	\$3.15	RT 3/8 N1/8	\$3.92	YC 3/8 N1/8	\$3.28
3/8	NPT1/4	MC 3/8 N1/4	\$1.74	CC 3/8 N1/4	\$1.74	ME 3/8 N1/4	\$2.13	BT 3/8 N1/4	\$3.28	RT 3/8 N1/4	\$3.92	YC 3/8 N1/4	\$3.28
3/8	NPT3/8	MC 3/8 N3/8	\$2.50	CC 3/8 N3/8	\$2.50	ME 3/8 N3/8	\$2.67	BT 3/8 N3/8	\$3.53	RT 3/8 N3/8	\$4.23	YC 3/8 N3/8	\$3.48
3/8	NPT1/2	MC 3/8 N1/2	\$2.50			ME 3/8 N1/2	\$3.88	BT 3/8 N1/2	\$4.58	RT 3/8 N1/2	\$4.57	YC 3/8 N1/2	\$4.23
1/2	NPT1/4	MC 1/2 N1/4	\$2.50	CC 1/2 N1/4	\$3.38	ME 1/2 N1/4	\$3.88	BT 1/2 N1/4	\$4.23	RT 1/2 N1/4	\$4.23	YC 1/2 N1/4	\$4.23
1/2	NPT3/8	MC 1/2 N3/8	\$2.50	CC 1/2 N 3/8	\$3.45	ME 1/2 N3/8	\$3.88	BT 1/2 N3/8	\$4.23	RT 1/2 N3/8	\$4.58	YC 1/2 N3/8	\$4.23
1/2	NPT1/2	MC 1/2 N1/2	\$2.50	CC 1/2 N1/2	\$3.55	ME 1/2 N1/2	\$3.88	BT 1/2 N1/2	\$4.58	RT 1/2 N1/2	\$4.89	YC 1/2 N1/2	\$4.57

4 mm	M5X0.8	MC 4 M5	\$1.17			ME 4 M5	\$1.69	BT 4 M5	\$2.38	RT 4 M5	\$2.38	YC 4 M5	\$2.38
4 mm	M6X1	MC 4 M6	\$1.17			ME 4 M6	\$1.69	BT 4 M6	\$2.38	RT 4 M6	\$2.38	YC 4 M6	\$2.38
4 mm	R1/8	MC 4 R1/8	\$1.17			ME 4 R1/8	\$1.69	BT 4 R1/8	\$2.61	RT 4 R1/8	\$2.38	YC 4 R1/8	\$2.38
4 mm	R1/4	MC 4 R1/4	\$1.17			ME 4 R1/4	\$1.69	BT 4 R1/4	\$2.61	RT 4 R1/4	\$2.61	YC 4 R1/4	\$2.61
6 mm	M5X0.8	MC 6 M5	\$1.17			ME 6 M5	\$1.69	BT 6 M5	\$2.63	RT 6 M5	\$3.15	YC 6 M5	\$2.63
6 mm	M6X1	MC 6 M6	\$1.17			ME 6 M6	\$1.69	BT 6 M6	\$2.63	RT 6 M6	\$3.15	YC 6 M6	\$2.63
6 mm	R1/8	MC 6 R1/8	\$1.17			ME 6 R1/8	\$1.69	BT 6 R1/8	\$2.61	RT 6 R1/8	\$3.15	YC 6 R1/8	\$2.63
6 mm	R1/4	MC 6 R1/4	\$1.17			ME 6 R1/4	\$1.69	BT 6 R1/4	\$2.84	RT 6 R1/4	\$3.59	YC 6 R1/4	\$2.84
6 mm	R3/8	MC 6 R3/8	\$1.69			ME 6 R3/8	\$2.01	BT 6 R3/8	\$3.15	RT 6 R3/8	\$3.92	YC 6 R3/8	\$3.15
6 mm	R1/2	MC 6 R1/2	\$2.32			ME 6 R1/2	\$3.30	BT 6 R1/2	\$4.23	RT 6 R1/2	\$4.57	YC 6 R1/2	\$4.23
8 mm	R1/8	MC 8 R1/8	\$1.17			ME 8 R1/8	\$1.87	BT 8 R1/8	\$2.96	RT 8 R1/8	\$3.28	YC 8 R1/8	\$2.96
8 mm	R1/4	MC 8 R1/4	\$1.17			ME 8 R1/4	\$1.87	BT 8 R1/4	\$2.96	RT 8 R1/4	\$3.59	YC 8 R1/4	\$2.96
8 mm	R3/8	MC 8 R3/8	\$1.17			ME 8 R3/8	\$1.87	BT 8 R3/8	\$3.28	RT 8 R3/8	\$3.92	YC 8 R3/8	\$3.28
8 mm	R1/2	MC 8 R1/2	\$1.69			ME 8 R1/2	\$2.13	BT 8 R1/2	\$3.28	RT 8 R1/2	\$4.57	YC 8 R1/2	\$4.19
10 mm	R1/8	MC 10 R1/8	\$1.74			ME 10 R1/8	\$2.13	BT 10 R1/8	\$3.15	RT 10 R1/8	\$3.92	YC 10 R1/8	\$3.28
10 mm	R1/4	MC 10 R1/4	\$1.74			ME 10 R1/4	\$2.13	BT 10 R1/4	\$3.28	RT 10 R1/4	\$3.92	YC 10 R1/4	\$3.28
10 mm	R3/8	MC 10 R3/8	\$2.49			ME 10 R3/8	\$2.37	BT 10 R3/8	\$3.52	RT 10 R3/8	\$4.19	YC 10 R3/8	\$3.48
10 mm	R1/2	MC 10 R1/2	\$2.49			ME 10 R1/2	\$3.88	BT 10 R1/2	\$4.57	RT 10 R1/2	\$4.57	YC 10 R1/2	\$4.23
12 mm	R 1/8	MC 12 R1/8	\$1.70										
12 mm	R1/4	MC 12 R1/4	\$2.49			ME 12 R1/4	\$3.88	BT 12 R1/4	\$4.23	RT 12 R1/4	\$4.23	YC 12 R1/4	\$4.23
12 mm	R3/8	MC 12 R3/8	\$2.49			ME 12 R3/8	\$3.88	BT 12 R3/8	\$4.23	RT 12 R3/8	\$4.57	YC 12 R3/8	\$4.23
12 mm	R1/2	MC 12 R1/2	\$2.49			ME 12 R1/2	\$3.88	BT 12 R1/2	\$4.57	RT 12 R1/2	\$4.89	YC 12 R1/2	\$4.57

Composite Push-In Air Fittings List Price

Composite Fittings															
Model		Universal Elbow		Extended Elbow		Female Connector		Female Elbow		Bulkhead Connector		Flow Control Valve meter-out		Flow Control Valve meter-in	
Tube OD	Pipe Size	UE		EE		FC		FE		BC		CV		CI	
1/8	10-32UNF	UE 1/8 10-32	\$2.63			FC 1/8 10-32	\$1.48	FE 1/8 10-32	\$2.10			CV 1/8 10-32	\$6.48	CI 1/8 10-32	
1/8	NPT1/8	UE 1/8 N1/8	\$2.63			FC 1/8 N1/8	\$1.48	FE 1/8 N1/8	\$2.10	BC 1/8 N1/8	\$2.78	CV 1/8 N1/8	\$6.48	CI 1/8 N1/8	\$7.53
5/32	10-32UNF	UE 5/32 10-32	\$2.63	EE 5/32 10-32	\$2.10	FC 5/32 10-32	\$1.48	FE 5/32 10-32	\$2.10			CV 5/32 10-32	\$6.48	CI 5/32 10-32	\$7.53
5/32	NPT1/8	UE 5/32 N1/8	\$2.63	EE 5/32 N1/8	\$2.10	FC 5/32 N1/8	\$1.48	FE 5/32 N1/8	\$2.10	BC 5/32 N1/8	\$2.79	CV 5/32 N1/8	\$6.48	CI 5/32 N1/8	
5/32	NPT1/4					FC 5/32 N1/4	\$1.48	FE 5/32 N1/4	\$2.10	BC 5/32 N1/4	\$2.79	CV 5/32 N1/4	\$6.48	CI 5/32 N1/4	
3/16	10-32UNF	UE 3/16 10-32	\$3.15					FE 3/16 10-32	\$2.10						
3/16	NPT1/8	UE 3/16 N1/8	\$3.15	EE 3/16 N1/8	\$2.10			FE 3/16 N1/8	\$2.10	BC 3/16 N1/8	\$2.78	CV 3/16 N1/8	\$6.48	CI 3/16 N1/8	
3/16	NPT1/4	UE 3/16 N1/4	\$3.15	EE 3/16 N1/4	\$2.10			FE 3/16 N1/4	\$2.10	BC 3/16 N1/4	\$2.78				
3/16	NPT3/8			EE 3/16 N3/8	\$2.66										
1/4	10-32UNF	UE 1/4 10-32	\$3.15					FE 1/4 10-32	\$2.10			CV 1/4 10-32	\$6.48	CI 1/4 10-32	\$7.53
1/4	NPT1/8	UE 1/4 N1/8	\$3.15	EE 1/4 N1/8	\$2.10	FC 1/4 N1/8	\$1.48	FE 1/4 N1/8	\$2.10	BC 1/4 N1/8	\$3.33	CV 1/4 N1/8	\$7.00	CI 1/4 N1/8	\$8.05
1/4	NPT1/4	UE 1/4 N1/4	\$3.59	EE 1/4 N1/4	\$2.10	FC 1/4 N1/4	\$1.68	FE 1/4 N1/4	\$2.10	BC 1/4 N1/4	\$3.80	CV 1/4 N1/4	\$7.00	CI 1/4 N1/4	\$8.05
1/4	NPT3/8			EE 1/4 N3/8	\$2.66			FE 1/4 N3/8	\$2.66			CV 1/4 N3/8	\$8.93		
5/16	NPT1/8	UE 5/16 N1/8	\$3.28	EE 5/16 N1/8	\$2.26	FC 5/16 N1/8	\$1.69	FE 5/16 N1/8	\$2.27	BC 5/16 N1/8	\$3.47	CV 5/16 N1/8	\$7.00	CI 5/16 N1/8	\$8.05
5/16	NPT1/4	UE 5/16 N1/4	\$3.28	EE 5/16 N1/4	\$2.26	FC 5/16 N1/4	\$1.69	FE 5/16 N1/4	\$2.27	BC 5/16 N1/4	\$3.80	CV 5/16 N1/4	\$7.00		
5/16	NPT3/8	UE 5/16 N3/8	\$3.92	EE 5/16 N3/8	\$2.49	FC 5/16 N3/8	\$2.00	FE 5/16 N3/8	\$2.49			CV 5/16 N3/8	\$8.93		
3/8	NPT1/8	UE 3/8 N1/8	\$3.92												
3/8	NPT1/4	UE 3/8 N1/4	\$3.92	EE 3/8 N1/4	\$3.13	FC 3/8 N1/4	\$2.25	FE 3/8 N1/4	\$3.13	BC 3/8 N1/4	\$3.80	CV 3/8 N1/4	\$7.64	CI 3/8 N1/4	\$8.69
3/8	NPT3/8	UE 3/8 N3/8	\$4.23	EE 3/8 N3/8	\$3.13	FC 3/8 N3/8	\$2.25	FE 3/8 N3/8	\$3.13	BC 3/8 N3/8	\$4.48	CV 3/8 N3/8	\$8.93	CI 3/8 N3/8	
3/8	NPT1/2			EE 3/8 N1/2	\$4.69	FC 3/8 N1/2	\$3.41	FE 3/8 N1/2	\$4.69			CV 3/8 N1/2	\$10.66	CI 3/8 N1/2	
1/2	NPT1/4	UE 1/2 N1/4	\$4.57	EE 1/2 N1/4	\$4.69	FC 1/2 N1/4	\$3.41								
1/2	NPT3/8	UE 1/2 N3/8	\$4.57	EE 1/2 N3/8	\$4.69	FC 1/2 N3/8	\$3.41			BC 1/2 N3/8	\$4.81	CV 1/2 N3/8	\$10.21	CI 1/2 N3/8	\$11.26
1/2	NPT1/2	UE 1/2 N1/2	\$4.88	EE 1/2 N1/2	\$4.69					BC 1/2 N1/2	\$5.15	CV 1/2 N1/2	\$10.66	CI 1/2 N1/2	\$11.71

4 mm	M5X0.8	UE 4 M5	\$2.63	EE 4 M5	\$2.10			FE 4 M5	\$2.10			CV 4 M5	\$6.48	CI 4 M5	
4 mm	M6X1	UE 4 M6	\$2.63	EE 4 M6	\$2.10			FE 4 M6	\$2.10			CV 4 M6	\$6.48	CI 4 M6	
4 mm	R1/8	UE 4 R1/8	\$2.63	EE 4 R1/8	\$2.10	FC 4 R1/8	\$1.48	FE 4 R1/8	\$2.10	BC 4 R1/8	\$2.78	CV 4 R1/8	\$6.48	CI 4 R1/8	
4 mm	R1/4	UE 4 R1/4	\$3.15	EE 4 R1/4	\$2.10	FC 4 R1/4	\$1.48	FE 4 R1/4	\$2.10	BC 4 R1/4	\$2.78	CV 4 R1/4	\$7.00	CI 4 R1/4	
6 mm	M5X0.8	UE 6 M5	\$3.15	EE 6 M5	\$2.10			FE 6 M5	\$2.10			CV 6 M5	\$6.48	CI 6 M5	
6 mm	M6X1	UE 6 M6	\$3.15	EE 6 M6	\$2.10			FE 6 M6	\$2.10			CV 6 M6	\$6.48	CI 6 M6	
6 mm	R1/8	UE 6 R1/8	\$3.15	EE 6 R1/8	\$2.10	FC 6 R1/8	\$1.48	FE 6 R1/8	\$2.10	BC 6 R1/8	\$3.33	CV 6 R1/8	\$7.00	CI 6 R1/8	
6 mm	R1/4	UE 6 R1/4	\$3.59	EE 6 R1/4	\$2.10	FC 6 R1/4	\$1.67	FE 6 R1/4	\$2.10	BC 6 R1/4	\$3.80	CV 6 R1/4	\$7.00	CI 6 R1/4	
6 mm	R3/8	UE 6 R3/8	\$3.92	EE 6 R3/8	\$2.66	FC 6 R3/8	\$2.00	FE 6 R3/8	\$2.66	BC 6 R3/8	\$4.15	CV 6 R3/8	\$8.93	CI 6 R3/8	
6 mm	R1/2			EE 6 R1/2	\$4.15										
8 mm	R1/8	UE 8 R1/8	\$3.28	EE 8 R1/8	\$2.26	FC 8 R1/8	\$1.69	FE 8 R1/8	\$2.26	BC 8 R1/8	\$3.47	CV 8 R1/8	\$7.00	CI 8 R1/8	
8 mm	R1/4	UE 8 R1/4	\$3.28	EE 8 R1/4	\$2.26	FC 8 R1/4	\$1.69	FE 8 R1/4	\$2.26	BC 8 R1/4	\$3.80	CV 8 R1/4	\$7.00	CI 8 R1/4	
8 mm	R3/8	UE 8 R3/8	\$3.92	EE 8 R3/8	\$2.66	FC 8 R3/8	\$2.00	FE 8 R3/8	\$2.49	BC 8 R3/8	\$4.15	CV 8 R3/8	\$8.93	CI 8 R3/8	
8 mm	R1/2	UE 8 R1/2	\$4.57	EE 8 R1/2	\$4.15	FC 8 R1/2	\$3.28			BC 8 R1/2	\$4.80	CV 8 R1/2	\$8.93	CI 8 R1/2	
10 mm	R1/8			EE 10 R1/8	\$3.13	FC 10 R1/8	\$2.25	FE 10 R1/8	\$3.13	BC 10 R1/8	\$3.80				
10 mm	R1/4	UE 10 R1/4	\$3.92	EE 10 R1/4	\$3.13	FC 10 R1/4	\$2.25	FE 10 R1/4	\$3.13	BC 10 R1/4	\$4.15	CV 10 R1/4	\$7.65	CI 10 R1/4	
10 mm	R3/8	UE 10 R3/8	\$4.23	EE 10 R3/8	\$3.13	FC 10 R3/8	\$2.25	FE 10 R3/8	\$3.13	BC 10 R3/8	\$4.48	CV 10 R3/8	\$8.93	CI 10 R3/8	
10 mm	R1/2	UE 10 R1/2	\$4.57	EE 10 R1/2	\$4.69	FC 10 R1/2	\$3.41	FE 10 R1/2	\$4.69	BC 10 R1/2	\$4.80	CV 10 R1/2	\$10.66	CI 10 R1/2	
12 mm	R1/4	UE 12 R1/4	\$4.57	EE 12 R1/4	\$4.69	FC 12 R1/4	\$3.41	FE 12 R1/4	\$4.69	BC 12 R1/4	\$4.48	CV 12 R1/4	\$10.21	CI 12 R1/4	
12 mm	R3/8	UE 12 R3/8	\$4.57	EE 12 R3/8	\$4.69	FC 12 R3/8	\$3.41	FE 12 R3/8	\$4.69	BC 12 R3/8	\$4.80	CV 12 R3/8	\$10.21	CI 12 R3/8	
12 mm	R1/2	UE 12 R1/2	\$4.89	EE 12 R1/2	\$4.69	FC 12 R1/2	\$3.41	FE 12 R1/2	\$4.69	BC 12 R1/2	\$5.15	CV 12 R1/2	\$10.66	CI 12 R1/2	

Composite Push-In Air Fittings List Price



Model	Flow Valve		Bulkhead Union		Cross Union		Elbow Union		Straight Union		Tee Union		Y Union	
Tube OD	FV		BU		CU		EU		SU		TU		YU	
1/8	FV 1/8	\$7.51	BU 1/8	\$2.73	CU 1/8	\$3.23	EU 1/8	\$1.39	SU 1/8	\$1.39	TU 1/8	\$2.06	YU 1/8	\$2.06
5/32	FV 5/32	\$7.51	BU 5/32	\$2.73	CU 5/32	\$3.23	EU 5/32	\$1.39	SU 5/32	\$1.39	TU 5/32	\$2.06	YU 5/32	\$2.06
3/16	FV 3/16	\$7.51	BU 3/16	\$2.73	CU 3/16	\$3.23	EU 3/16	\$1.39	SU 3/16	\$1.39	TU 3/16	\$2.06	YU 3/16	\$2.06
1/4	FV 1/4	\$7.74	BU 1/4	\$2.73	CU 1/4	\$3.23	EU 1/4	\$1.46	SU 1/4	\$1.46	TU 1/4	\$2.06	YU 1/4	\$2.06
5/16	FV 5/16	\$7.74	BU 5/16	\$3.30	CU 5/16	\$3.23	EU 5/16	\$1.70	SU 5/16	\$1.67	TU 5/16	\$2.06	YU 5/16	\$2.06
3/8	FV 3/8	\$7.85	BU 3/8	\$4.00	CU 3/8	\$4.04	EU 3/8	\$1.93	SU 3/8	\$1.93	TU 3/8	\$2.56	YU 3/8	\$2.56
1/2	FV 1/2	\$10.16	BU 1/2	\$4.11	CU 1/2	\$5.00	EU 1/2	\$2.26	SU 1/2	\$2.25	TU 1/2	\$3.21	YU 1/2	\$3.21
4 mm	FV 04	\$7.74	BU 4	\$2.73	CU 4	\$3.23	EU 4	\$1.39	SU 4	\$1.39	TU 4	\$2.06	YU 4	\$2.06
6 mm	FV 06	\$7.74	BU 6	\$2.73	CU 6	\$3.23	EU 6	\$1.46	SU 6	\$1.46	TU 6	\$2.06	YU 6	\$2.06
8 mm	FV 08	\$7.85	BU 8	\$3.30	CU 8	\$4.04	EU 8	\$1.68	SU 8	\$1.67	TU 8	\$2.06	YU 8	\$2.06
10 mm	FV 10	\$11.32	BU 10	\$4.00	CU 10	\$4.77	EU 10	\$1.93	SU 10	\$1.93	TU 10	\$2.56	YU 10	\$2.56
12 mm	FV 12	\$12.59	BU 12	\$4.11	CU 12	\$5.00	EU 12	\$2.25	SU 12	\$2.25	TU 12	\$3.21	YU 12	\$3.21
Composite Fittings														
	Model		Plug In Elbow		Male Manifold		Manifold Union		Reduced Branch		Reduced Union		Tee Union Reducer	
Tube OD	ER		PE		MM		MU		RB		RU		TU	
1/8	ER 1/8-5/32	\$2.69	PE 1/8	\$2.69	MM 1/4-5/32-N1/8	\$4.62	MU 5/32X1/8	\$4.16	RB 5/32-1/8	\$2.69	RU 5/32-1/8	\$1.67	TU 5/32-1/8	\$2.69
5/32	ER 5/32-1/4	\$2.69	PE 5/32	\$2.69	MM 5/16-5/32-N1/4	\$4.74	MU 1/4X5/32	\$4.16	RB 3/16-5/32	\$2.69	RU 3/16-5/32	\$1.67		
3/16					MM 5/16-1/4-N1/4	\$4.74	MU 5/16X5/32	\$4.16	RB 1/4-5/32	\$2.69	RU 1/4-5/32	\$1.67	TU 1/4-5/32	\$2.69
1/4	ER 1/4-5/16	\$2.69	PE 1/4	\$2.69			MU 5/16X1/4	\$4.16	RB 1/4-3/16	\$2.69	RU 1/4-3/16	\$1.93	TU 1/4-3/16	
5/16	ER 5/16-3/8	\$2.69	PE 5/16	\$2.67			MU 3/8X1/4	\$5.78	RB 5/16-1/4	\$2.69	RU 5/16-1/4	\$1.93	TU 5/16-1/4	\$2.69
3/8	ER 3/8-1/2	\$3.84	PE 3/8	\$3.21					RB 3/8-1/4	\$3.21	RU 3/8-1/4	\$2.25	TU 3/8-1/4	\$3.21
1/2			PE 1/2	\$3.21					RB 3/8-5/16	\$3.21	RU 3/8-5/16	\$2.25	TU 3/8-5/16	\$3.21
4 mm					MM 06-04-R1/8	\$4.74	MU 6-4	\$4.16	RB 1/2-3/8	\$3.85	RU 1/2-3/8	\$2.56	TU 1/2-3/8	\$3.84
6 mm	ER 4-6	\$2.69	PE 4		MM 08-04-R1/4	\$4.74	MU 8-4	\$4.16	RB 6-4	\$2.69	RU 6-4	\$1.67	TU 6-4	\$2.69
8 mm	ER 6-8	\$2.69	PE 6	\$1.91	MM 08-06-R3/8	\$6.12	MU 8-6	\$4.74	RB 8-6	\$2.69	RU 8-6	\$1.93	TU 8-6	\$2.69
10 mm	ER 8-10	\$3.21	PE 8		MM 10-08-R3/8	\$6.47	MU 10-6	\$5.43	RB 10-8	\$3.21	RU 10-8	\$2.25	TU 10-8	\$3.21
12 mm	ER 10-12	\$3.84	PE 10				MU 10-8	\$5.43	RB 12-10	\$3.85	RU 12-10	\$2.56	TU 12-10	\$3.84
Composite Fittings														
	Model		Stem Coupler		Stem Reducer		Tube Reducer (Tube-Stem)		Model		Stack Elbow		Male Angle	
Tube OD	PG		SC		SR		TR		Tube OD	Pipe Size	SE		MA	
1/8	PG 1/8	\$0.58	SC 1/8	\$0.69					5/32	10-32	SE 5/32 10-32	\$4.05	MA 5/32 10-32	\$1.86
5/32	PG 5/32	\$0.58	SC 5/32	\$0.69	SR 1/8-5/32	\$0.92	TR 1/8-5/32	\$1.76	5/32	NPT1/8	SE 5/32 N1/8	\$4.05	MA 5/32 N1/8	\$1.86
3/16									1/4	10-32	SE 1/4 10-32	\$3.59	MA 1/4 10-32	\$1.86
1/4	PG 1/4	\$0.58	SC 1/4	\$0.69	SR 5/32-1/4	\$0.92	TR 5/32-1/4	\$1.76	1/4	NPT1/8	SE 1/4 N1/8	\$3.59	MA 1/4 N1/8	\$1.86
5/16	PG 5/16	\$0.69	SC 5/16	\$0.92	SR 1/4-5/16	\$1.16	TR 1/4-5/16	\$2.08	1/4	NPT1/4	SE 1/4 N1/4	\$4.09	MA 1/4 N1/4	\$1.86
3/8	PG 3/8	\$0.69	SC 3/8	\$0.92	SR 1/4-3/8	\$1.16	TR 1/4-3/8	\$2.08	5/16	NPT1/4	SE 5/16 N1/4	\$3.73	MA 5/16 N1/4	\$1.70
1/2	PG 1/2	\$0.84	SC 1/2	\$0.92	SR 3/8-1/2	\$1.16	TR 3/8-1/2	\$2.81	5/16	NPT3/8	SE 5/16 N3/8	\$3.92	MA 5/16 N3/8	\$1.70
4 mm	PG 4	\$0.58	SC 4	\$0.69					3/8	NPT1/4	SE 3/8 N1/4	\$3.92	MA 3/8 N1/4	\$2.33
6 mm	PG 6	\$0.58	SC 6	\$0.69	SR 4-6	\$1.16	TR 4-6	\$1.76	3/8	NPT3/8	SE 3/8 N3/8	\$4.23	MA 3/8 N3/8	\$2.55
8 mm	PG 8	\$0.68	SC 8	\$0.92	SR 6-8	\$0.92	TR 6-8	\$2.08						
10 mm	PG10	\$0.69	SC10	\$0.92	SR 8-10	\$1.16	TR 8-10	\$2.08	1/2	NPT3/8	SE 1/2 N3/8	\$4.58	MA 1/2 N3/8	\$2.74
12 mm	PG 12	\$0.69	SC 12	\$0.92	SR 10-12	\$1.16	TR 10-12	\$2.81	1/2	NPT1/2	SE 1/2 N1/2	\$4.88	MA 1/2 N1/2	\$2.92

Miniature Composite Fittings													
Model		Male Connector		Compact Male Connector With Internal Hex		Male Elbow		Branch Tee		Run Tee		Female Connector	
Tube OD	Pipe Size	MCM		CCM		MEM		BTM		RTM		FCM	
1/8	10-32UNF	MCM 1/8 10-32	\$1.79	CCM 1/8 10-32	\$1.94	MEM 1/8 10-32	\$2.63	BTM 1/8 10-32	\$4.20	RTM 1/8 10-32	\$2.38	FCM 1/8 10-32	\$2.31
1/8	NPT1/8	MCM 1/8 N1/8	\$1.79	CCM 1/8 N1/8	\$1.94	MEM 1/8 N1/8	\$2.63	BTM 1/8 N1/8	\$4.20	RTM 1/8 N1/8	\$2.38	FCM 1/8 N1/8	\$2.31
5/32	10-32UNF	MCM 5/32 10-32	\$1.79	CCM 5/32 10-32	\$1.94	MEM 5/32 10-32	\$2.63	BTM 5/32 10-32	\$4.20	RTM 5/32 10-32	\$2.38	FCM5/32 10-32	\$2.31
5/32	NPT1/8	MCM 5/32 N1/8	\$1.79	CCM 5/32 N1/8	\$1.94	MEM 5/32 N1/8	\$2.63	BTM 5/32 N1/8	\$4.20	RTM 5/32 N1/8	\$2.38	FCM 5/32 N1/8	\$2.31
1/4	10-32UNF	MCM 1/4 10-32	\$1.79	CCM 1/4 10-32	\$1.94	MEM 1/4 10-32	\$2.63	BTM 1/4 10-32	\$4.20	RTM 1/4 10-32	\$3.15	FCM 1/4 10-32	\$2.31
1/4	NPT1/8	MCM 1/4 N1/8	\$1.79	CCM 1/4 N1/8	\$1.94	MEM 1/4 N1/8	\$2.63	BTM 1/4 N1/8	\$4.20	RTM 1/4 N1/8	\$3.15	FCM 1/4 N1/8	\$2.31

Miniature Composite Fittings									
Model		Cross Union		Elbow Union		Straight Union		Straight Union	
Tube OD		CUM		EUM		SUM		TUM	
1/8		CUM 1/8	\$4.20	EUM 1/8	\$2.42	SUM 1/8	\$2.42	TUM 1/8	\$3.36
5/32		CUM 5/32	\$4.20	EUM 5/32	\$2.42	SUM 5/32	\$2.42	TUM 5/32	\$3.36
1/4		CUM 1/4	\$4.20	EUM 1/4	\$2.42	SUM 1/4	\$2.42	TUM 1/4	\$3.36

Composite Fittings Specifications

A. Installation of Pipe Fittings:

1. Tighten fitting by hand, then turn it 2-3 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.

C. Removal of Tubing from Fitting:

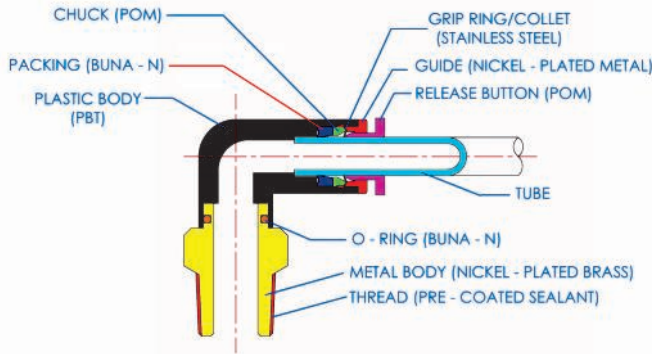
1. Push in evenly on the two long oval sides of the Release Button.
2. Pull out the tube while depressing the Release Button.
3. To reuse the tubing, cut off the lodged portion of the previously used tubing in an even and perpendicular fashion.

D. Recommended Tubing Material, Size and Hardness Requirements:

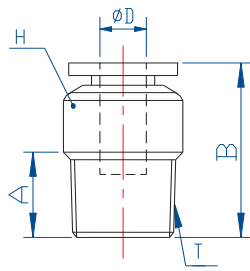
Tubing Material	Specified Size	Hardness (Durometer)
Polyurethane	+/- 0.006" (+/-0.15 mm)	Shore A 85 or higher
Polyethylene	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Polypropylene	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Nylon	+/- 0.004" (+/-0.1 mm)	Shore D 44—D75
Pre-grooved Metal Tubing	+/- 0.004" (+/-0.1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

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

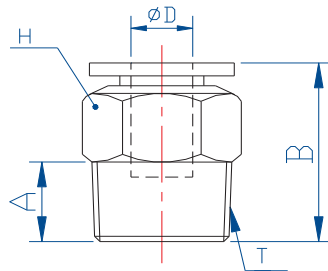
	Composite Fittings	
	(Standard-Purple Button)	(K Series-Black Button)
Operating Pressure Range	0 - 150 PSI (0 - 990 kpa)	0 - 180 PSI (0 - 1200 kpa)
Vacuum	0 - 29.5 in Hg (750 mm Hg)	
Operating Temperature	32 - 140 °F (0 - 60 °C)	
Recommended Tubing Material	Polyurethane, Nylon, Polyethylene, Polypropylene	
Metal Body	Brass, Nickel Plated	
Plastic Body	PBT (Polybutylene terephthalate)	
Release Button	POM (Poly oxy methylene copolymer)	
Grip Ring or Collet	300 series Stainless Steel	
O-ring	NBR (Buna-N)	
Thread Sealant	Teflon	
Service	FOR AIR ONLY	

A detailed cross-sectional schematic diagram of a composite fitting assembly. The diagram shows a black plastic body (PBT) with a yellow metal body (nickel-plated brass) attached to its side. A blue release button (POM) is mounted on the plastic body. A black O-ring (Buna-N) is seated in a groove on the metal body. A blue grip ring/collet (stainless steel) is shown gripping a blue tube. A red guide (nickel-plated metal) is also shown. The assembly is shown in a cross-section view, with labels pointing to various components: CHUCK (POM), PACKING (BUNA - N), PLASTIC BODY (PBT), GRIP RING/COLLET (STAINLESS STEEL), GUIDE (NICKEL - PLATED METAL), RELEASE BUTTON (POM), TUBE, O - RING (BUNA - N), METAL BODY (NICKEL - PLATED BRASS), and THREAD (PRE - COATED SEALANT).

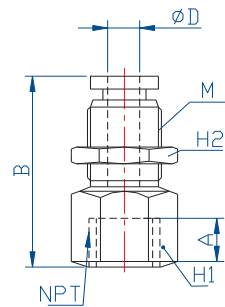
SCHEMATIC OF TYPICAL COMPOSITE FITTING CONSTRUCTION



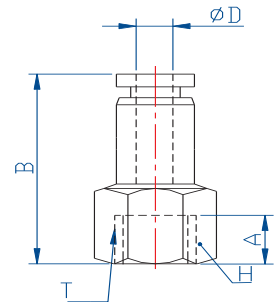
Compact Male Connector, CC



Male Connector, MC



Bulkhead Connector, BC



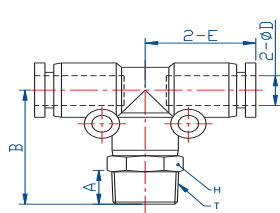
Female Connector, FC

ØD	T	Model	A	B	H	Model	A	B	H	Model	M	A	H1	H2	B	Model	A	B	H
5/32	10-32UNF	CC 5/32 10-32	3.8	20.3	Ø10.0	MC 5/32 10-32	3.8	20.3	11.1										
5/32	NPT1/8	CC 5/32 N1/8	7.5	19.8	Ø10.0	MC 5/32 N1/8	7.5	19.8	11.1	BC 5/32 N1/8	M12	7.5	14.3	14.3	23.8	FC 5/32 N1/8	7.5	23.8	14.3
5/32	NPT1/4	CC 5/32 N1/4				MC 5/32 N1/4	10.5	18.9	14.3							FC 5/32 N1/4	10.5	26.8	17.4
3/16	10-32UNF	CC 3/16 10-32				MC 3/16 10-32	3.8	20.9	11.1										
3/16	NPT1/8	CC 3/16 N1/8				MC 3/16 N1/8	7.5	20.6	11.1	BC 3/16 N1/8	M14	7.5	14.3	17.4	24.7	FC 3/16 N1/8	7.5	24.4	14.3
3/16	NPT1/4	CC 3/16 N1/4				MC 3/16 N1/4	10.5	23.7	14.3	BC 3/16 N1/4	M14	10.5	17.4	17.4	30.4	FC 3/16 N1/4	10.5	27.4	17.4
3/16	NPT3/8	CC 3/16 N3/8				MC 3/16 N3/8	11	21.2	17.4										
1/4	10-32UNF	CC 1/4 10-32	3.8	21.2	Ø12.0	MC 1/4 10-32	3.8	21.2	12.7										
1/4	NPT1/8	CC 1/4 N1/8	7.5	20.9	Ø12.0	MC 1/4 N1/8	7.5	20.9	12.7	BC 1/4 N1/8	M14	7.5	17.4	17.4	24.7	FC 1/4 N1/8	7.5	24.9	14.3
1/4	NPT1/4	CC 1/4 N1/4	10.5	23.7	Ø14.0	MC 1/4 N1/4	10.5	23.7	14.3	BC 1/4 N1/4	M14	10.5	17.4	17.4	30.4	FC 1/4 N1/4	10.5	27.9	17.4
1/4	NPT3/8	CC 1/4 N3/8				MC 1/4 N3/8	11	21.2	17.4										
5/16	NPT1/8	CC 5/16 N1/8	7.5	25.9	Ø14.0	MC 5/16 N1/8	7.5	25.9	14.3	BC 5/16 N1/8	M16	7.5	19	19	27.9	FC 5/16 N1/8	7.5	26.4	14.3
5/16	NPT1/4	CC 5/16 N1/4	10.5	25.9	Ø14.0	MC 5/16 N1/4	10.5	25.9	14.3	BC 5/16 N1/4	M16	10.5	19	19	35.9	FC 5/16 N1/4	10.5	29.4	17.4
5/16	NPT3/8	CC 5/16 N3/8	11	22.4	Ø17.0	MC 5/16 N3/8	11	22.4	17.4	BC 5/16 N3/8	M16	11	19	19	35.4	FC 5/16 N3/8	11	29.9	22.2
3/8	NPT1/8	CC 3/8 N1/8				MC 3/8 N1/8	7.5	28.2	17.4										
3/8	NPT1/4	CC 3/8 N1/4	10.5	30.5	Ø17.0	MC 3/8 N1/4	10.5	30.5	17.4	BC 3/8 N1/4	M20	10.5	22.2	22.2	31.9	FC 3/8 N1/4			
3/8	NPT3/8	CC 3/8 N3/8	11	27.5	Ø17.0	MC 3/8 N3/8	11	27.5	17.4	BC 3/8 N3/8	M20	11	22.2	22.2	34.7	FC 3/8 N3/8			
3/8	NPT1/2	CC 3/8 N1/2	14	25.8	Ø21.0	MC 3/8 N1/2	14	25.8	22.2										
1/2	NPT1/4	CC 1/2 N1/4	10.5	33.9	Ø21.0	MC 1/2 N1/4	10.5	33.9	22.2							FC 1/2 N1/4			
1/2	NPT3/8	CC 1/2 N3/8	11	30.4	Ø21.0	MC 1/2 N3/8	11	30.4	22.2	BC 1/2 N3/8	M22	11	25.4	25.4	35.4	FC 1/2 N3/8			
1/2	NPT1/2	CC 1/2 N1/2	14	33.4	Ø21.0	MC 1/2 N1/2	14	33.4	22.2	BC 1/2 N1/2	M22	14	25.4	25.4	41.4				

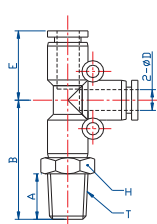
Tube OD	T	Model		B	H	Model		B	H	Model			H1	H2	B	Model		B	H
4	M5	CC 4 M5		22.8	10	MC 4 M5		22.8	10										
4	M6	CC 4 M6		24.3	10	MC 4 M6		24.3	10										
4	R1/8	CC 4 R1/8		20.9	10	MC 4 R1/8		20.9	10	BC 4 R1/8			14	14	27.5	FC 4 R1/8		27.5	12
4	R1/4	CC 4 R1/4		23.6	14	MC 4 R1/4		23.6	14	BC 4 R1/4			19	14	30.1	FC 4 R1/4		30.1	17
6	M5	CC 6 M5		24.1	12	MC 6 M5		24.1	12										
6	M6	CC 6 M6		25.8	12	MC 6 M6		25.8	12										
6	R1/8	CC 6 R1/8		22.3	12	MC 6 R1/8		22.3	12	BC 6 R1/8			17	17	28.8	FC 6 R1/8		28.8	14
6	R1/4	CC 6 R1/4		22.2	14	MC 6 R1/4		22.2	14	BC 6 R1/4			17	17	29.2	FC 6 R1/4		29.2	17
6	R3/8	CC 6 R3/8		24.1	17	MC 6 R3/8		24.1	17	BC 6 R3/8			19	17	31.2	FC 6 R3/8		31.2	19
6	R1/2	CC 6 R1/2		28.4	21	MC 6 R1/2		28.4	21										
8	R1/8	CC 8 R1/8		26.2	14	MC 8 R1/8		26.2	14	BC 8 R1/8			17	19	29.6	FC 8 R1/8		29.6	10
8	R1/4	CC 8 R1/4		25.7	14	MC 8 R1/4		25.7	14	BC 8 R1/4			17	19	30.5	FC 8 R1/4		30.5	17
8	R3/8	CC 8 R3/8		28.1	17	MC 8 R3/8		28.1	17	BC 8 R3/8			19	19	31.7	FC 8 R3/8		31.7	19
8	R1/2	CC 8 R1/2		28.0	21	MC 8 R1/2		28.0	21	BC 8 R1/2			24	19	36.8	FC 8 R1/2		36.8	24
10	R1/8	CC 10 R1/8		28.5	17	MC 10 R1/8		28.5	17	BC 10 R1/8			21	24	31.5	FC 10 R1/8		31.5	19
10	R1/4	CC 10 R1/4		30.0	17	MC 10 R1/4		30.0	17	BC 10 R1/4			21	24	32.7	FC 10 R1/4		32.7	19
10	R3/8	CC 10 R3/8		30.8	17	MC 10 R3/8		30.8	17	BC 10 R3/8			21	24	38.4	FC 10 R3/8		38.4	19
10	R1/2	CC 10 R1/2		29.6	21	MC 10 R1/2		29.6	21	BC 10 R1/2			24	24	38.4	FC 10 R1/2		38.4	24
12	R1/4	CC 12 R1/4		34.7	19	MC 12 R1/4		34.7	19	BC 12 R1/4			24	26	33.2	FC 12 R1/4		33.2	21
12	R3/8	CC 12 R3/8		30.5	19	MC 12 R3/8		30.5	19	BC 12 R3/8			24	26	37.0	FC 12 R3/8		37.0	21
12	R1/2	CC 12 R1/2		29.9	21	MC 12 R1/2		29.9	21	BC 12 R1/2			24	26	37.7	FC 12 R1/2		37.7	24

Units in mm

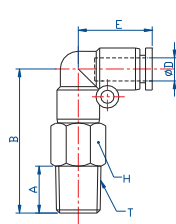
Composite Push-In Air Fittings Dimensions



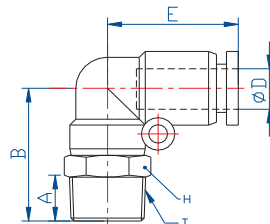
Branch Tee, BT



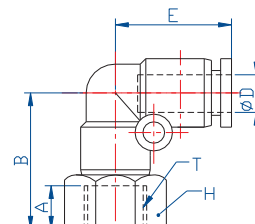
Run Tee, RT



Extended Elbow, EE



Male Elbow, ME

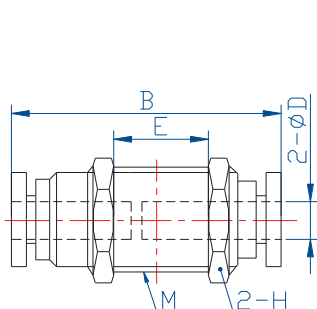


Female Elbow, FE

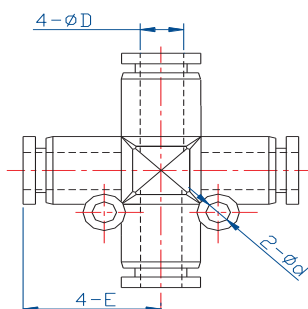
ΦD	T	A	H	Model	Model	B	E	Model	B	E	Model	B	E	Model	B	E	H
5/32	10-32UNF	3.8	11.1	BT 5/32 10-32	RT 5/32 10-32	23	18.5	EE5/32 10-32	33.5	17.5	ME 5/32 10-32	22	17.5	FE 5/32 10-32			
5/32	NPT1/8	7.5	11.1	BT 5/32 N1/8	RT 5/32 N1/8	25	18.5	EE 5/32 N1/8	36	17.5	ME 5/32 N1/8	24	17.5	FE 5/32 N1/8	23.5	17.5	14.3
5/32	NPT1/4	10.5	14.3	BT 5/32 N1/4	RT 5/32 N1/4	29	18.5				ME 5/32 N1/4	28	17.5	FE 5/32 N1/4			
3/16	10-32UNF	3.8	11.1	BT 3/16 10-32	RT 3/16 10-32	23	18.8				ME 3/16 10-32	22	17.8	FE 3/16 10-32			
3/16	NPT1/8	7.5	11.1	BT 3/16 N1/8	RT 3/16 N1/8	25.5	18.8	EE 3/16 N1/8	36	17.8	ME 3/16 N1/8	24.5	17.8	FE 3/16 N1/8	23.8	17.8	14.3
3/16	NPT1/4	10.5	14.3	BT 3/16 N1/4	RT 3/16 N1/4	29	18.8	EE 3/16 N1/4	39.5	17.8	ME 3/16 N1/4	28	17.8	FE 3/16 N1/4	26.5	17.8	17.4
3/16	NPT3/8	11	17.4	BT 3/16 N3/8	RT 3/16 N3/8	30	18.8	EE 3/16 N3/8	40.5	17.8	ME 3/16 N3/8	29	17.8				
1/4	10-32UNF	3.8	12.7	BT 1/4 10-32	RT 1/4 10-32	24.7	19.3				ME 1/4 10-32	24.4	19	FE 1/4 10-32			
1/4	NPT1/8	7.5	12.7	BT 1/4 N1/8	RT 1/4 N1/8	26	19.3	EE 1/4 N1/8	39.7	19	ME 1/4 N1/8	25.7	19	FE 1/4 N1/8	24.9	19	14.3
1/4	NPT1/4	10.5	14.3	BT 1/4 N1/4	RT 1/4 N1/4	29.5	19.3	EE 1/4 N1/4	43.2	19	ME 1/4 N1/4	29.2	19	FE 1/4 N1/4	27.9	19	17.4
1/4	NPT3/8	11	17.4	BT 1/4 N3/8	RT 1/4 N3/8	30.5	19.3	EE 1/4 N3/8	44.2	19	ME 1/4 N3/8	30.2	19	FE 1/4 N3/8			
5/16	NPT1/8	7.5	14.3	BT 5/16 N1/8	RT 5/16 N1/8	29.45	22.75	EE 5/16 N1/8	44.8	22.8	ME 5/16 N1/8	29.5	22.8	FE 5/16 N1/8	27.5	22.8	14.3
5/16	NPT1/4	10.5	14.3	BT 5/16 N1/4	RT 5/16 N1/4	32.45	22.75	EE 5/16 N1/4	47.8	22.8	ME 5/16 N1/4	32.5	22.8	FE 5/16 N1/4	31	22.8	17.4
5/16	NPT3/8	11	17.4	BT 5/16 N3/8	RT 5/16 N3/8	33.45	22.75	EE 5/16 N3/8	48.8	22.8	ME 5/16 N3/8	33.5	22.8	FE 5/16 N3/8	32	22.8	22.2
3/8	NPT1/8	7.5	17.4	BT 3/8 N1/8	RT 3/8 N1/8	35	27				ME 3/8 N1/8	34.3	26.3				
3/8	NPT1/4	10.5	17.4	BT 3/8 N1/4	RT 3/8 N1/4	38	27	EE 3/8 N1/4	56.3	26.3	ME 3/8 N1/4	37.3	26.3	FE 3/8 N1/4	35.3	26.3	17.4
3/8	NPT3/8	11	17.4	BT 3/8 N3/8	RT 3/8 N3/8	38.5	27	EE 3/8 N3/8	57.8	26.3	ME 3/8 N3/8	37.8	26.3	FE 3/8 N3/8	35.8	26.3	22.2
3/8	NPT1/2	14	22.2	BT 3/8 N1/2	RT 3/8 N1/2	42	27	EE 3/8 N1/2	61.3	26.3	ME 3/8 N1/2	41.3	26.3	FE 3/8 N1/2			
1/2	NPT1/4	10.5	22.2	BT 1/2 N1/4	RT 1/2 N1/4	39.5	29.6	EE 1/2 N1/4	62.5	29.6	ME 1/2 N1/4	39.5	29.6				
1/2	NPT3/8	11	22.2	BT 1/2 N3/8	RT 1/2 N3/8	40	29.6	EE 1/2 N3/8	63	29.6	ME 1/2 N3/8	40	29.6	FE 1/2-N3/8	37.5	29.6	22.2
1/2	NPT1/2	14	22.2	BT 1/2 N1/2	RT 1/2 N1/2	43	29.6	EE 1/2 N1/2	66	29.6	ME 1/2 N1/2	43	29.6	FE 1/2-N1/2	40.5	29.6	25.4

ΦD	Pipe Size	E	Model	Model	B	H	Model	B1	H	Model	B	H	Model	B2	H2
4	M5	18.1	BT 4 M5	RT 4 M5	23.0	10	EE 4 M5	36.1	10	ME 4 M5	23.0	10	FE 4 M5	20.9	10
4	M6	18.1	BT 4 M6	RT 4 M6	22.4	10	EE 4 M6	35.2	10	ME 4 M6	22.4	10	FE 4 M6	20.7	10
4	R1/8	18.1	BT 4 R1/8	RT 4 R1/8	26.1	10	EE 4 1/8	36.8	10	ME 4 R1/8	26.1	10	FE 4 1/8	22.3	12
4	R1/4	18.1	BT 4 R1/4	RT 4 R1/4	27.7	14	EE 4 R1/4	36.4	14	ME 4 R1/4	27.7	14	FE 4 R1/4	28.1	17
6	M5	21.1	BT 6 M5	RT 6 M5	25.8	12	EE 6 M5	39.0	12	ME 6 M5	25.8	12	FE 6 M5	23.0	12
6	M6	21.1	BT 6 M6	RT 6 M6	26.4	12	EE 6 M6	39.6	12	ME 6 M6	26.4	12	FE 6 M6	23.1	12
6	R1/8	21.1	BT 6 R1/8	RT 6 R1/8	28.1	12	EE 6 R1/8	38.8	12	ME 6 R1/8	28.1	12	FE 6 R1/8	26.0	14
6	R1/4	21.1	BT 6 R1/4	RT 6 R1/4	29.2	14	EE 6 R1/4	45.0	14	ME 6 R1/4	29.2	14	FE 6 R1/4	28.5	17
6	R3/8	21.1	BT 6 R3/8	RT 6 R3/8	31.7	17	EE 6 R3/8	44.9	17	ME 6 R3/8	31.7	17	FE 6 R3/8	33.4	19
6	R1/2	21.1	BT 6 R1/2	RT 6 R1/2	34.9	21	EE 6 R1/2	48.1	21	ME 6 R1/2	34.9	21			
8	R1/8	23.1	BT 8 R1/8	RT 8 R1/8	30.1	14	EE 8 R1/8	42.2	14	ME 8 R1/8	30.1	14			
8	R1/4	23.1	BT 8 R1/4	RT 8 R1/4	30.8	14	EE 8 R1/4	46.7	14	ME 8 R1/4	30.8	14	FE 8 R1/8	28.6	14
8	R3/8	23.1	BT 8 R3/8	RT 8 R3/8	33.6	17	EE 8 R3/8	46.5	17	ME 8 R3/8	33.6	17	FE 8 R1/4	30.0	17
8	R1/2	23.1	BT 8 R1/2	RT 8 R1/2	35.2	21	EE 8 R1/2	52.7	21	ME 8 R1/2	35.2	21	FE 10 R1/8	30.7	17
10	R1/8	27.9	BT 10 R1/8	RT 10 R1/8	32.6	17	EE 10 R1/8	53.1	17	ME 10 R1/8	32.6	17			
10	R1/4	27.9	BT 10 R1/4	RT 10 R1/4	35.1	17	EE 10 R1/4	56.3	17	ME 10 R1/4	35.1	17	FE 10 R1/4	31.1	17
10	R3/8	27.9	BT 10 R3/8	RT 10 R3/8	36.6	17	EE 10 R3/8	57.0	17	ME 10 R3/8	36.6	17	FE 10 R3/8	34.4	19
10	R1/2	27.9	BT 10 R1/2	RT 10 R1/2	38.6	21	EE 10 R1/2		21	ME 10 R1/2	38.6	21	FE 10 R1/2	37.8	24
12	R1/4	28.3	BT 12 R1/4	RT 12 R1/4	35.2	19	EE 12 R1/4	62.6	19	ME 12 R1/4	35.2	19	FE 12 R1/4	36.4	19
12	R3/8	28.3	BT 12 R3/8	RT 12 R3/8	37.5	19	EE 12 R3/8	62.9	19	ME 12 R3/8	37.5	19	FE 12 R3/8	39.0	19
12	R1/2	28.3	BT 12 R1/2	RT 12 R1/2	39.8	21	EE 12 R1/2		21	ME 12 R1/2	39.8	21	FE 12 R1/2	42.8	24

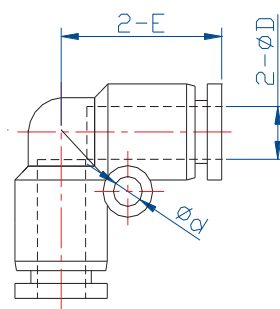
Units in mm



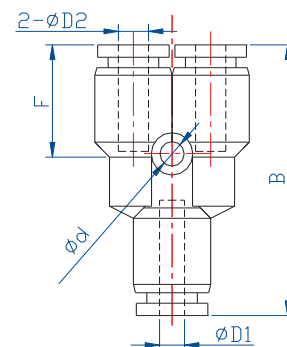
Bulkhead Union, BU



Cross Union, CU

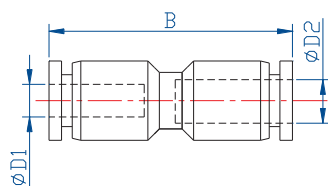


Elbow Union, EU

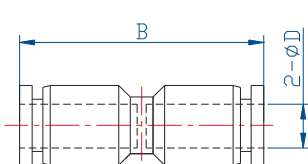


Reduced Branch, RB

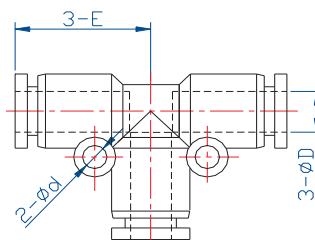
ØD	Model	B	E	H	M	Model	Ød	E	Model	E	Ød	Model	ØD1	ØD2	Ød	B	F
5/32	BU 5/32	30.1	9.7	14.3	M12	CU 5/32	3.2	17.5	EU 5/32	17.5	3.2	RB 3/16-5/32	3/16	5/32	3.2	35.8	14.0
3/16	BU 3/16	31.8	7.5	17.4	M14	CU 3/16	3.2	17.8	EU 3/16	17.8	3.2	RB 1/4-5/32	1/4	5/32	3.2	36.8	14.5
1/4	BU 1/4	31.8	7.5	17.4	M14	CU 1/4	3.2	19.3	EU 1/4	19	3.2	RB 1/4-3/16	1/4	3/16	3.2	37.1	14.8
5/16	BU 5/16	35.3	6.8	19.0	M16	CU 5/16	3.2	22.75	EU 5/16	22.8	3.2	RB 5/16-1/4	5/16	1/4	3.2	39.9	17.7
3/8	BU 3/8	36.4	8.9	22.2	M20	CU 3/8	4.2	27	EU 3/8	26.3	4.2	RB 3/8-1/4					
1/2	BU 1/2	45.3	12.8	25.4	M22	CU 1/2	4.3	29.6	EU 1/2	29.6	4.3	RB 3/8-5/16	3/8	5/16	4.2	47.9	20.3
												RB 1/2-3/8	1/2	3/8	4.2	51.6	20.0
4	BU 4	35.2	13.4	14.0	12.0	CU 4	2.0	18.2	EU 4	18.2	3.0						
6	BU 6	35.4	14.3	17.0	14.0	CU 6	3.0	21.0	EU 6	21.0	3.0	RB 6-4		10.5	2.0	36.7	14.5
8	BU 8	41.1	16.2	19.0	16.0	CU 8	3.0	23.0	EU 8	23.0	3.0	RB 8-6		13.2	3.0	42.4	17.2
10	BU 10	44.7	16.6	24.0	20.0	CU 10	3.0	27.4	EU 10	27.4	3.0	RB 10-8		14.8	4.0	50.2	20.1
12	BU 12	45.3	16.6	26.0	22.0	CU 12	2.5	27.4	EU 12	27.4	3.0	RB 12-10		18.4	4.0	54.6	22.4



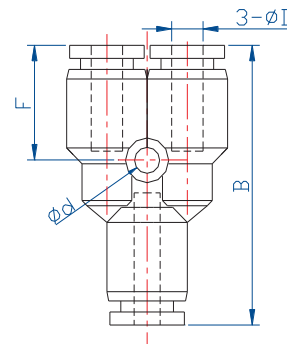
Reduced Union, RU



Straight Union, SU



Tee Union, TU

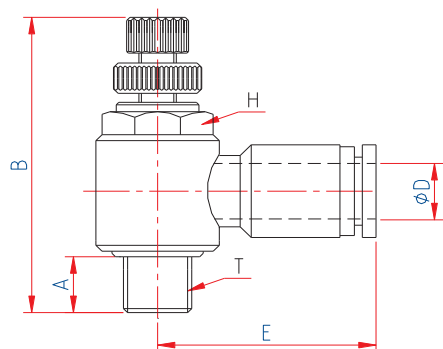


Y Union, YU

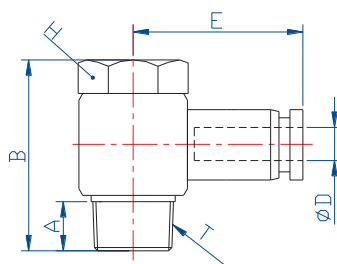
Part No.	ØD1	ØD2	B	Part No.	ØD	B	Part No.	ØD	Ød	E	Part No.	ØD	Ød	B	F
RU 3/16-5/32	3/16	5/32	33.3	SU 5/32	5/32	33	TU 5/32	5/32	3.2	18.5	YU 5/32	5/32	3.2	35.5	14.0
RU 1/4-5/32	1/4	5/32	34.9	SU 3/16	3/16	33.6	TU 3/16	3/16	3.2	18.8	YU 3/16	3/16	3.2	36.1	14.3
RU 1/4-3/16	1/4	3/16	35.2	SU 1/4	1/4	35.2	TU 1/4	1/4	3.2	19.3	YU 1/4	1/4	3.2	37.1	14.8
RU 5/16-1/4	5/16	1/4	38.6	SU 5/16	5/16	39.1	TU 5/16	5/16	3.2	22.75	YU 5/16	5/16	3.2	40.4	18.2
RU 3/8-1/4				SU 3/8	3/8	45.2	TU 3/8	3/8	4.2	27	YU 3/8	3/8	4.2	47.1	19.5
RU 3/8-5/16	3/8	5/16	47.3	SU 1/2	1/2	49.2	TU 1/2	1/2	4.3	29.6	YU 1/2	1/2	4.2	53.2	21.6
RU 1/2-3/8	1/2	3/8	48.9												
RU 6-4	4	6	33.9	SU 4		30.8	TU 4		3	18.2	YU 4		3	33.5	14.9
RU 8-6	6	8	38.7	SU 6		37.6	TU 6		3	21	YU 6		3	37	15.8
RU 10-8	8	10	42.5	SU 8		39.5	TU 8		3	23	YU 8		3	38.4	16
RU 12-10	10	12	47.4	SU 10		47.1	TU 10		3	27.4	YU 10		4	52.1	19.1
				SU 12		50.3	TU 12		3	27.4	YU 12		4	54.8	21.6

Units in mm

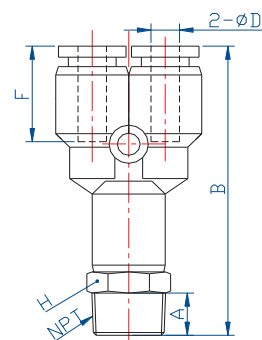
Composite Push-In Air Fittings Dimensions



CV = Air Control Valve (meter-out)
CI = Air Control Valve (meter-in)



Universal Elbow, UE

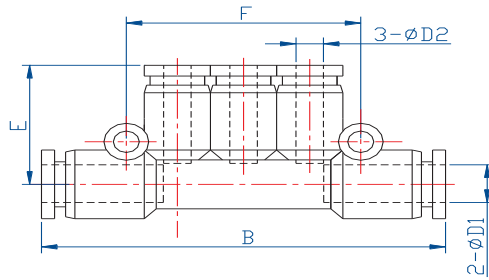


Y Connector, YC

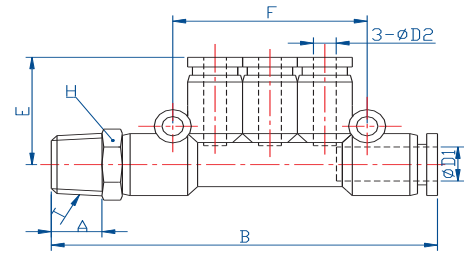
ØD	T	A	H	Model (CV/CI)	B	E	Model	B	E	Part No.	A	B	F	H
5/32	10-32	3.8	8	CV 5/32 10-32	29.3	20	UE 5/32 10-32	17	20	YC 5/32 10-32	3.8	40	14	11.1
5/32	NPT1/8	7.5	11.1	CV 5/32 N1/8	40.1	22.6	UE 5/32 N1/8	23.5	22.3	YC 5/32 N1/8	7.5	42	14	11.1
5/32	NPT1/4									YC 5/32 N1/4	10.5	46	14	14.3
3/16	10-32	3.8	8				UE 3/16 10-32	17	20.3	YC 3/16 10-32	3.8	40.3	14.3	11.1
3/16	NPT1/8	7.5	11.1				UE 3/16 N1/8	23.5	22.6	YC 3/16 N1/8	7.5	42.8	14.3	11.1
3/16	NPT1/4	10.5	14.3				UE 3/16 N1/4	27.3	24.3	YC 3/16 N1/4	10.5	46.3	14.3	14.3
3/16	NPT3/8									YC 3/16 N3/8	11	47.3	14.3	17.4
1/4	10-32	3.8	8	CV 1/4 10-32	29.3	22				YC 1/4 10-32	3.8	42.5	14.8	12.7
1/4	NPT1/8	7.5	11.1	CV 1/4 N1/8	40.1	23.1	UE 1/4 N1/8	23.5	23.1	YC 1/4 N1/8	7.5	43.8	14.8	12.7
1/4	NPT1/4	10.5	14.3	CV 1/4 N1/4	47.2	25.1	UE 1/4 N1/4	27.3	25.1	YC 1/4 N1/4	10.5	47.3	14.8	14.3
1/4	NPT3/8	11	19	CV 1/4 N3/8	53.9	26.8				YC 1/4 N3/8	11	48.3	14.8	17.4
5/16	NPT1/8	7.5	11.1	CV 5/16 N1/8	40.1	25.6	UE 5/16 N1/8	23.5	25.6	YC 5/16 N1/8	7.5	47.1	18.2	14.3
5/16	NPT1/4	10.5	14.3	CV 5/16 N1/4	47.2	28.6	UE 5/16 N1/4	27.3	28.6	YC 5/16 N1/4	10.5	50.1	18.2	14.3
5/16	NPT3/8	11	19	CV 5/16 N3/8	53.9	29.6	UE 5/16 N3/8	32.4	29.6	YC 5/16 N3/8	11	51.1	18.2	17.4
3/8	NPT1/8									YC 3/8 N1/8	7.5	55.1	19.5	17.4
3/8	NPT1/4	10.5	14.3	CV 3/8 N1/4	47.2	31	UE 3/8 N1/4	27.3	31	YC 3/8 N1/4	10.5	58.1	19.5	17.4
3/8	NPT3/8	11	19	CV 3/8 N3/8	53.9	31.6	UE 3/8 N3/8	32.4	31.6	YC 3/8 N3/8	11	58.6	19.5	17.4
3/8	NPT1/2	14	25.4	CV 3/8 N1/2	58.4	34.6				YC 3/8 N1/2	14	62.1	19.5	22.2
1/2	NPT1/4									YC 1/2 N1/4	10.5	63.1	21.6	22.2
1/2	NPT3/8	11	19	CV 1/2 N3/8	53.9	35.6	UE 1/2 N3/8	32.4	35.6	YC 1/2 N3/8	11	63.6	21.6	22.2
1/2	NPT1/2	14	25.4	CV 1/2 N1/2	58.4	36.6	UE 1/2 N1/2	39.1	36.6	YC 1/2 N1/2	14	66.6	21.6	22.2

ØD	T		H	Model (CV/CI)		E	Model			Model		B	F	H
4	M5		8	CV 4 M5		20.7	UE 4 M5			YC 4 M5		38.8	13.8	10
4	M6		8	CV 4 M6		20.6	UE 4 M6			YC 4 M6		38.5	13.9	10
4	R1/8		10	CV 4 R1/8		22.2	UE 4 R1/8			YC 4 R1/8		40.1	14.3	10
4	R1/4		14	CV 4 R1/4		27.3	UE 4 R1/4			YC 4 R1/4		42.5	13.9	14
6	M5		8	CV 6 M5		23.1	UE 6 M5			YC 6 M5		41.6	15.5	12
6	M6		8	CV 6 M6		23.8	UE 6 M6			YC 6 M6		42.8	15.3	12
6	R1/8		10	CV 6 R1/8		23.6	UE 6 R1/8			YC 6 R1/8		44.3	15.5	12
6	R1/4		14	CV 6 R1/4		25.5	UE 6 R1/4			YC 6 R1/4		44.8	15.3	14
6	R3/8		19	CV 6 R3/8		27.8	UE 6 R3/8			YC 6 R3/8		47.6	15.4	17
6	R1/2									YC 6 R1/2		50.6	15.1	21
8	R1/8		10	CV 8 R1/8		26.5	UE 8 R1/8			YC 8 R1/8		45.4	16.9	14
8	R1/4		14	CV 8 R1/4		27.8	UE 8 R1/4			YC 8 R1/4		46.4	16.9	14
8	R3/8		19	CV 8 R3/8		31.4	UE 8 R3/8			YC 8 R3/8		48.3	15.7	17
8	R1/2		24	CV 8 R1/2		30.3	UE 8 R1/2			YC 8 R1/2		50.5	17.1	21
10	R1/8									YC 10 R1/8		57.0	21.0	17
10	R1/4		14	CV 10 R1/4		34.0	UE 10 R1/4			YC 10 R1/4		59.3	21.2	17
10	R3/8		19	CV 10 R3/8		33.4	UE 10 R3/8			YC 10 R3/8		60.5	20.0	17
10	R1/2		24	CV 10 R1/2		35.2	UE 10 R1/2			YC 10 R1/2		62.9	21.4	21
12	R1/4		14	CV 12 R1/4		34.2	UE 12 R1/4			YC 12 R1/4		61.4	21.9	19
12	R3/8		19	CV 12 R3/8		34.2	UE 12 R3/8			YC 12 R3/8		63.4	21.8	19
12	R1/2		24	CV 12 R1/2		37.2	UE 12 R1/2			YC 12 R1/2		65.5	21.8	21

Units in mm

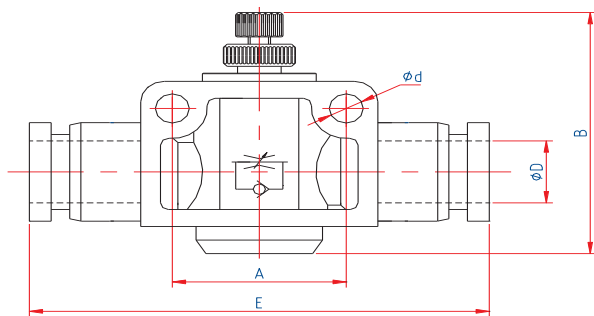


Manifold Union, MU



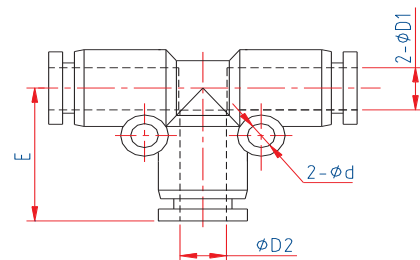
Male Manifold, MM

Part No.	ØD	B	E	F	Model	ØD1	ØD2	B	E	F	Part No.	ØD1	ØD2	T	A	B	E	F	H
MU 5/32	5/32	57	19	36	MU 3/16-5/32	3/16	5/32	57.6	19	36	MM 3/16-5/32-N1/8	3/16	5/32	NPT 1/8	7.5	64.3	19	36	11.1
MU 3/16	3/16	57.6	19.3	36	MU 1/4-5/32	1/4	5/32	57.6	19	36	MM 1/4-5/32-N1/8	1/4	5/32	NPT 1/8	7.5	64.3	19	36	12.7
MU 1/4	1/4	61.6	20.3	42	MU 5/16-5/32	5/16	5/32	62.6	20	42	MM 5/16-5/32-N1/4	5/16	5/32	NPT 1/4	10.5	72.3	20	42	14.3
MU 5/16	5/16	81.6	24.3	48	MU 5/16-3/16	5/16	3/16	62.6	20.3	42	MM 5/16-3/16-N1/4	5/16	3/16	NPT 1/4	10.5	72.3	20.3	42	14.3
					MU 5/16-1/4	5/16	1/4	62.6	20.3	42	MM 5/16-1/4-N1/4	5/16	1/4	NPT 1/4	10.5	72.3	20.3	42	14.3
					MU 3/8-1/4	3/8	1/4	80	23.8	48	MM 3/8-5/16-N3/8	3/8	5/16	NPT 3/8	11	91.5	24.3	48	17.4
					MU 3/8-5/16	3/8	5/16	80	24.3	48									
					MU-6-04	6.0	4.0	61.3		40.4	MM06-04-R1/8	6.0	4.0	R1/8		68.5		40.4	12
					MU-8-04	8.0	4.0	61.7		40.9	MM08-6-R1/4	8.0	6.0	R1/4		69.9		40.9	14
					MU-8-06	8.0	6.0	62.7		40.9	MM10-8-R3/8	10.0	8.0	R3/8		91.6		47.9	17
					MU-10-06	10.0	6.0	82.9		47.1									
					MU-10-08	10.0	8.0	83.0		47.9									



Air Flow Control Valve, FV

Part No.	ØD	Ød	A	B	E
FV 5/32	5/32	3.2	14	28.8	39.5
FV 3/16	3/16	3.2	14	28.8	40.1
FV 1/4	1/4	4.3	20	42.6	47.6
FV 5/16	5/16	4.3	22	44.3	52.6
FV 3/8	3/8	4.3	26	53.4	60.5
FV 1/2	1/2	4.3	32	55.6	74.2
FV-4	4	3.0			39.9
FV-6	6	4.0			49.6
FV-8	8	4.0			55.2
FV-10	10	4.0			64.9
FV-12	12	4.0			75.7

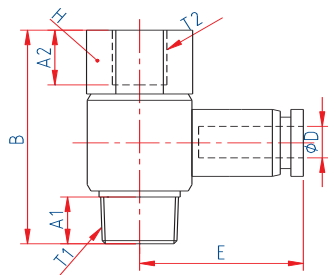


Tee Union Reducer, TU

TU				
Model	ΦD1	ΦD2	Φd	E
TU 1/4-5/32	1/4	5/32	3.2	19.0
TU 5/16-1/4	5/16	1/4	3.2	22.3
TU 3/8-5/16	3/8	5/16	3.2	27.8
TU 1/2-3/8	1/2	3/8	4.2	29.3

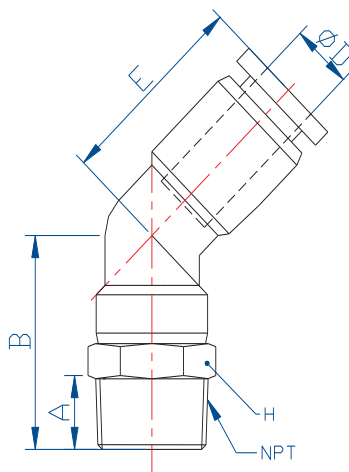
Units in mm

Composite Push-In Air Fittings Dimensions



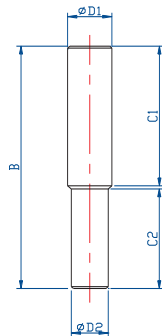
Stack Elbow, SE

SE								
ØD	T1	T2	Model	A1	A2	H	B	E
5/32	10-32UNF	10-32UNF	SE 5/32 10-32	3.8	5.5	11.1	19.5	20
	NPT1/8	NPT1/8	SE 5/32 N1/8	7.5	7.5	14.3	30	22.3
3/16	10-32UNF	10-32UNF	SE 3/16 10-32	3.8	5.5	11.1	19.5	20.3
	NPT1/8	NPT1/8	SE 3/16 N1/8	7.5	7.5	14.3	30	22.6
	NPT1/4	NPT1/4	SE 3/16 N1/4	10.5	10.5	17.4	35.8	24.3
1/4	NPT1/8	NPT1/8	SE 1/4 N1/8	7.5	7.5	14.3	30	23.1
	NPT1/4	NPT1/4	SE 1/4 N1/4	10.5	10.5	17.4	35.8	25.1
5/16	NPT1/8	NPT1/8	SE 5/16 N1/8	7.5	7.5	14.3	30	25.6
	NPT1/4	NPT1/4	SE 5/16 N1/4	10.5	10.5	17.4	35.8	28.6
	NPT3/8	NPT3/8	SE 5/16 N3/8	11	11	22.2	40.9	29.6
3/8	NPT1/4	NPT1/4	SE 3/8 N1/4	10.5	10.5	17.4	35.8	31
	NPT3/8	NPT3/8	SE 3/8 N3/8	11	11	22.2	40.9	31.6
1/2	NPT3/8	NPT3/8	SE 1/2 N3/8	11	11	22.2	40.9	35.6
	NPT1/2	NPT1/2	SE 1/2 N1/2	14	14	25.4	49	36.6



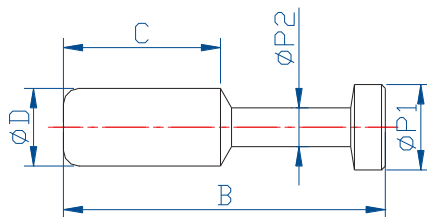
Male Angle, MA

MA						
ØD	NPT	Model	A	B	E	H
5/32	10-32UNF	MA 5/32 10-32	3.8	20.7	16.2	11.1
	NPT1/8	MA 5/32 N1/8	7.5	22.7		14.3
	NPT1/4	MA 5/32 N1/4	10.5	26.7		17.4
3/16	10-32UNF	MA 3/16 10-32	3.8	20.7	16.5	11.1
	NPT1/8	MA 3/16 N1/8	7.5	23.2		14.3
	NPT1/4	MA 3/16 N1/4	10.5	26.7		17.4
1/4	NPT3/8	MA 3/16 N3/8	11	27.7	17.7	12.7
	10-32UNF	MA 1/4 10-32	3.8	23.1		14.3
	NPT1/8	MA 1/4 N1/8	7.5	24.4		17.4
5/16	NPT1/4	MA 1/4 N1/4	10.5	27.9	20.9	14.3
	NPT3/8	MA 1/4 N3/8	11	28.9		17.4
	NPT1/8	MA 5/16 N1/8	7.5	27.6		14.3
3/8	NPT1/4	MA 5/16 N1/4	10.5	30.6	22.2	17.4
	NPT3/8	MA 5/16 N3/8	11	31.6		17.4
	NPT1/8	MA 3/8 N1/8	7.5	30.2		17.4
1/2	NPT1/4	MA 3/8 N1/4	10.5	33.2	26.3	17.4
	NPT3/8	MA 3/8 N3/8	11	33.7		22.2
	NPT1/2	MA 3/8 N1/2	14	37.2		22.2
1/2	NPT1/4	MA 1/2 N1/4	10.5	36.2	26.3	22.2
	NPT3/8	MA 1/2 N3/8	11	36.7		22.2
	NPT1/2	MA 1/2 N1/2	14	39.7		22.2



Stem Reducer, SR

SR					
Model	ØD1	ØD2	C1	C2	B
SR 3/16-5/32	3/16	5/32	18	17	36
SR 1/4-5/32	1/4	5/32	18	17	36
SR 1/4-3/16	1/4	3/16	18	17	36
SR 5/16-1/4	3/16	1/4	20	18	39
SR 3/8-5/16	3/8	5/16	25	20	46
SR 1/2-3/8	1/2	3/8	27	26	54

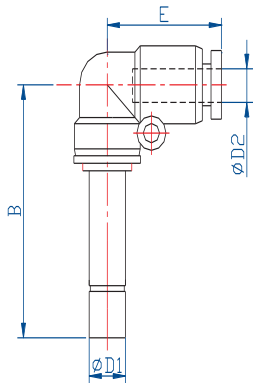


Plug, PG

PG					
Model	ØD	B	ØP1	ØP2	C
PG 5/32	5/32	28	5	3	15
PG 3/16	3/16	28	5	3	15
PG 1/4	1/4	33	7	3	17
PG 5/16	5/16	37	9	4	18
PG 3/8	3/8	42	11	5	20.5
PG 1/2	1/2	44	13	6	23

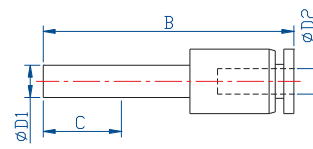
Units in mm

Units in mm

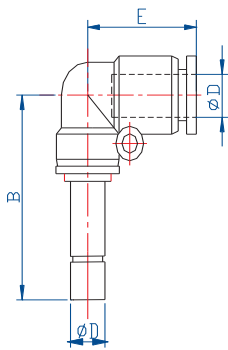


Elbow Reducer, ER

ER				
Model	ØD1	ØD2	B	E
ER 1/8-5/32	5/32	1/8	33	17.5
ER 5/32-1/4	1/4	5/32	35	17.5
ER 1/4-3/8	3/8	1/4	42.5	22.8
ER 1/4-5/16	5/16	1/4	39.2	19
ER 5/16-3/8	3/8	5/16	42.5	22.8
ER 3/8-1/2	1/2	3/8	52.8	26.3

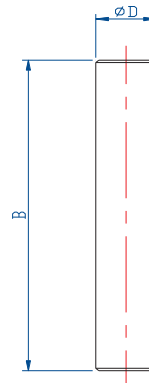


TR (Tube Reducer)				
Model	ØD1	ØD2	B	C
TR 5/32-1/4	1/4	5/32	39.5	16
TR 5/32-5/16	5/16	5/32	41.5	18.6
TR 1/4-5/16	5/16	1/4	41.8	18.6
TR 1/4-3/8	3/8	1/4	46.5	20
TR 5/16-3/8	3/8	5/16	46.5	20
TR 1/4-1/2	1/2	1/4	51.8	23.5
TR 5/16-1/2	1/2	5/16	52.3	23.5
TR 3/8-1/2	1/2	3/8	51.5	23.5



Plug-In Elbow, PE

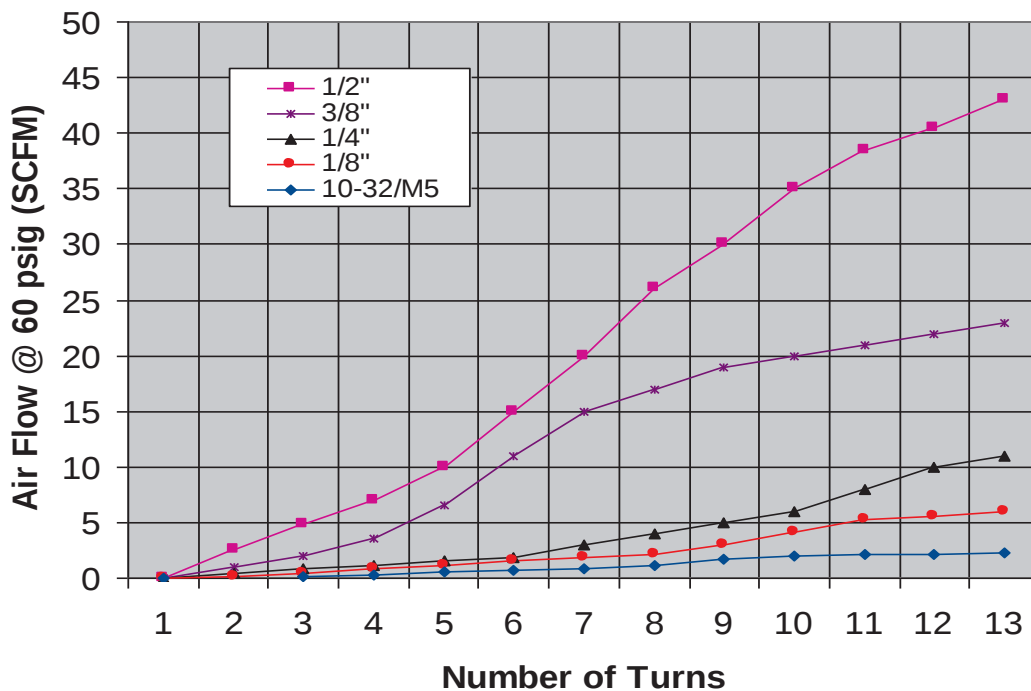
PE			
Model	ØD	B	E
PE 5/32	5/32	33	17.5
PE 3/16	3/16	33	17.8
PE 1/4	1/4	36.2	19
PE 5/16	5/16	42.5	22.8
PE 3/8	3/8	50.8	26.3
PE 1/2	1/2	54.5	29.6



Stem Coupling, SC

SC		
Model	ØD	B
SC 5/32	5/32	35
SC 3/16	3/16	35
SC 1/4	1/4	37
SC 5/16	5/16	41
SC 3/8	3/8	51
SC 1/2	1/2	54

STC 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

Stainless Steel & Nickel Plated Push-In Fittings and Compression Fittings



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STC Stainless Steel & Nickel-Plated Brass Fittings Numbering System

Ordering Part No. = (eg. BCS 1/8 10-32)		BC	S	1/8	10-32	
Fitting Name	Model	Material/Type	Tube OD	Thread Size /Stem/Tube	Stainless Steel Fitting Options	
BULKHEAD CONNECTOR	BC	S = 316 Stainless Steel B = Nickel Plated Brass	(inch) 1/8 5/32 3/16 1/4 5/16	THREAD SIZE: N= NPT N1/8 N1/4 N3/8 N1/2	Tube Gripping/Releasing Mechanism: Blank = Collet Style with Stainless Steel Release Button W = Gripper Style with Stainless Steel Release Button WP = Gripper Style with Plastic Release Button	
BRANCH TEE	BT			R=PT (British Standard Pipe Taper Thread) R1/8 R1/4 R3/8 R1/2		
BULKHEAD UNION	BU			G=PP (British Standard Parallel Pipe Thread) G1/8 G1/4 G3/8 G1/2		
CROSS UNION	CU			U=Universal Threads (fits NPT, R & G) U1/8 U1/4 U3/8 U1/2		
ELBOW UNION	EU			Machine Thread 10-32 M5 M6		
FEMALE CONNECTOR	FC			STEM SIZE: 1/8-1/2" 4-12 mm		
FEMALE ELBOW	FE		(mm) 4 6 8 10 12			
MALE CONNECTOR	MC					
MALE ELBOW	ME					
PLUG	PG					
REDUCED UNION	RU					
RUN TEE	RT					
STEM COUPLING	SC					
STEM REDUCER	SR					
STRAIGHT UNION	SU					
TEE UNION	TU					
TUBE ADAPTOR	TA					
TUBE REDUCER	TR					

316 Stainless Steel Push-In Fittings



Stainless Steel Fittings																	
	Name		Bulkhead Union		Elbow Union		Reduced Union		Straight Union		Tube Reducer		Tee Union		Hex Bushing Union		Stem Coupler
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	Part No.	Unit Price	Part No.	Unit Price	
1/8"	BUS 1/8	\$13.24	EUS 1/8	\$15.88	RUS 5/32-1/8	\$13.24	SUS 1/8	\$9.98	TRS 1/8-5/32	\$9.98	TUS 1/8	\$19.48	HBS MN1/4-FN1/8	\$2.66	SCS 1/8	\$2.50	
5/32"	BUS 5/32	\$13.24	EUS 5/32	\$15.87	RUS 1/4-5/32	\$15.59	SUS 5/32	\$9.98	TRS 5/32-1/4	\$9.98	TUS 5/32	\$19.48	HBS MN3/8-FN1/8	\$3.33	SCS 5/32	\$2.50	
1/4"	BUS 1/4	\$15.59	EUS 1/4	\$18.23	RUS 5/16-1/4	\$19.96	SUS 1/4	\$9.98	TRS 1/4-3/8	\$9.98	TUS 1/4	\$22.39	HBS MN3/8-FFN1/4	\$3.99	SCS 1/4	\$2.50	
5/16"	BUS 5/16	\$19.96	EUS 5/16	\$19.06	RUS 3/8-5/16	\$21.21	SUS 5/16	\$10.88	TRS 5/16-3/8	\$10.88	TUS 5/16	\$25.29	HBS MN1/2-FN1/4	\$3.99	SCS 5/16	\$2.80	
3/8"	BUS 3/8	\$21.21	EUS 3/8	\$20.79	RUS 1/2-3/8	\$27.37	SUS 3/8	\$11.78	TRS 3/8-1/2	\$11.78	TUS 3/8	\$28.14	HBS MN1/2-FN3/8	\$3.99	SCS 3/8	\$2.80	
1/2"	BUS 1/2	\$27.37	EUS 1/2	\$23.91			SUS 1/2	\$14.28			TUS 1/2	\$32.92			SCS 1/2	\$2.80	
4 mm	BUS 4	\$13.24	EUS 4	\$15.87	RUS 6-4	\$18.71	SUS 4	\$8.94	TRS 4-6	\$8.94	TUS 4	\$19.48			SCS 4	\$2.50	
6 mm	BUS 6	\$18.71	EUS 6	\$18.23	RUS 8-6	\$19.93	SUS 6	\$9.98	TRS 6-8	\$9.98	TUS 6	\$22.39			SCS 6	\$2.50	
8 mm	BUS 8	\$19.96	EUS 8	\$19.06	RUS 10-8	\$21.21	SUS 8	\$10.88	TRS 8-10	\$10.88	TUS 8	\$25.29			SCS 8	\$2.80	
10 mm	BUS 10	\$21.21	EUS 10	\$20.79	RUS 12-10	\$27.37	SUS 10	\$11.78	TRS 10-12	\$11.78	TUS 10	\$28.14			SCS 10	\$2.80	
12 mm	BUS 12	\$27.37	EUS 12	\$23.91			SUS 12	\$14.28			TUS 12	\$32.92			SCS 12	\$2.80	

Stainless Steel Fittings															
		Female Connector		Branch Tee (Swivel)		Female Connector		Male Connector		Male Elbow (Swivel)		Run Tee (Swivel)		Tube Adaptor	
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	Part No.	Unit Price
1/8"	10-32	BCS 1/8 10-32	\$18.80	BTS 1/8 10-32	\$19.48	FCS 1/8 10-32	\$8.09	MCS 1/8 10-32	\$6.93	MES 1/8 10-32	\$13.80	RTS 1/8 10-32	\$19.48	TAS 1/8 10-32	\$4.83
1/8"	1/8" NPT	BCS 1/8 N1/8	\$18.80	BTS 1/8 N1/8	\$19.48	FCS 1/8 N1/8	\$8.09	MCS 1/8 N1/8	\$6.93	MES 1/8 N1/8	\$13.80	RTS 1/8 N1/8	\$19.48	TAS 1/8 N1/8	\$4.83
5/32"	10-32	BCS 5/32 10-32	\$18.80	BTS 5/32 10-32	\$19.48	FCS 5/32 10-32	\$8.09	MCS 5/32 10-32	\$6.93	MES 5/32 10-32	\$13.79	RTS 5/32 10-32	\$19.48	TAS 5/32 10-32	\$4.83
5/32"	1/8" NPT	BCS 5/32 N1/8	\$18.80	BTS 5/32 N1/8	\$19.48	FCS 5/32 N1/8	\$8.09	MCS 5/32 N1/8	\$6.93	MES 5/32 N1/8	\$13.79	RTS 5/32 N1/8	\$19.48	TAS 5/32 N1/8	\$4.83
1/4"	1/8" NPT	BCS 1/4 N1/8	\$21.32	BTS 1/4 N1/8	\$19.48	FCS 1/4 N1/8	\$8.09	MCS 1/4 N1/8	\$6.93	MES 1/4 N1/8	\$14.69	RTS 1/4 N1/8	\$19.48	TAS 1/4 N1/8	\$4.83
1/4"	1/4" NPT	BCS 1/4 N1/4	\$21.32	BTS 1/4 N1/4	\$22.39	FCS 1/4 N1/4	\$8.09	MCS 1/4 N1/4	\$6.93	MES 1/4 N1/4	\$15.87	RTS 1/4 N1/4	\$22.39	TAS 1/4 N1/4	\$4.83
1/4"	3/8" NPT	BCS 1/4 N3/8	\$22.32	BTS 1/4 N3/8	\$25.54	FCS 1/4 N3/8	\$8.70	MCS 1/4 N3/8	\$7.55	MES 1/4 N3/8	\$16.50	RTS 1/4 N3/8	\$25.54	TAS 1/4 N3/8	\$4.83
5/16"	1/4" NPT	BCS 5/16 N1/4	\$22.32	BTS 5/16 N1/4	\$24.49	FCS 5/16 N1/4	\$10.37	MCS 5/16 N1/4	\$9.22	MES 5/16 N1/4	\$17.33	RTS 5/16 N1/4	\$24.49	TAS 5/16 N1/4	\$7.12
5/16"	3/8" NPT	BCS 5/16 N3/8	\$22.32	BTS 5/16 N3/8	\$26.59	FCS 5/16 N3/8	\$11.42	MCS 5/16 N3/8	\$9.74	MES 5/16 N3/8	\$17.72	RTS 5/16 N3/8	\$26.59	TAS 3/8 N1/8	\$7.12
3/8"	1/4" NPT	BCS 3/8 N1/4	\$24.86	BTS 3/8 N1/4	\$28.14	FCS 3/8 N1/4	\$13.86	MCS 3/8 N1/4	\$9.22	MES 3/8 N1/4	\$18.36	RTS 3/8 N1/4	\$23.63	TAS 3/8 N1/4	\$7.12
3/8"	3/8" NPT	BCS 3/8 N3/8	\$24.86	BTS 3/8 N3/8	\$24.31	FCS 3/8 N3/8	\$15.02	MCS 3/8 N3/8	\$9.36	MES 3/8 N3/8	\$19.06	RTS 3/8 N3/8	\$24.31	TAS 3/8 N3/8	\$7.29
3/8"	1/2" NPT	BCS 3/8 N1/2	\$24.86	BTS 3/8 N1/2	\$31.29	FCS 3/8 N1/2	\$15.54	MCS 3/8 N1/2	\$10.53	MES 3/8 N1/2	\$21.83	RTS 3/8 N1/2	\$31.29	TAS 3/8 N1/2	\$8.40
1/2"	1/4" NPT	BCS 1/2 N1/4	\$26.80	BTS 1/2 N1/4	\$29.77	FCS 1/2 N1/4	\$15.04	MCS 1/2 N1/4	\$11.30	MES 1/2 N1/4	\$23.43	RTS 1/2 N1/4	\$29.77	TAS 1/2 N1/4	\$9.20
1/2"	3/8" NPT	BCS 1/2 N3/8	\$27.80	BTS 1/2 N3/8	\$30.82	FCS 1/2 N3/8	\$15.54	MCS 1/2 N3/8	\$11.30	MES 1/2 N3/8	\$23.43	RTS 1/2 N3/8	\$30.82	TAS 1/2 N3/8	\$9.20
1/2"	1/2" NPT	BCS 1/2 N1/2	\$29.80	BTS 1/2 N1/2	\$31.93	FCS 1/2 N1/2	\$16.05	MCS 1/2 N1/2	\$14.90	MES 1/2 N1/2	\$26.68	RTS 1/2 N1/2	\$32.92	TAS 1/2 N1/2	\$12.80
4 mm	M5	BCS 4 M5	\$18.80	BTS 4 M5	\$19.48	FCS 4 M5	\$8.09	MCS 4 M5	\$6.93	MES 4 M5	\$13.79	RTS 4 M5	\$19.48		
4 mm	R1/8	BCS 4 N1/8	\$18.80	BTS 4 R1/8	\$19.48	FCS 4 N1/8	\$8.09	MCS 4 R1/8	\$6.93	MES 4 R1/8	\$13.79	RTS 4 R1/8	\$19.48		
4 mm	R1/4	BCS 4 R1/4	\$18.80	BTS 4 R1/4	\$19.48	FCS 4 R1/4	\$8.09	MCS 4 R1/4	\$7.98	MES 4 R1/4	\$13.79	RTS 4 R1/4	\$19.48		
6mm	M5	BCS 6 M5	\$21.32	BTS 6 M5	\$19.48	FCS 6 M5	\$8.09	MCS 6 M5	\$7.98	MES 6 M5	\$15.87	RTS 6 M5	\$19.48		
6mm	R1/8	BCS 6 R1/8	\$21.32	BTS 6 R1/8	\$19.48	FCS 6 R1/8	\$8.09	MCS 6 R1/8	\$7.98	MES 6 R1/8	\$15.87	RTS 6 R1/8	\$19.48		
6mm	R1/4	BCS 6 R1/4	\$21.32	BTS 6 R1/4	\$22.39	FCS 6 R1/4	\$8.09	MCS 6 R1/4	\$7.98	MES 6 R1/4	\$15.87	RTS 6 R1/4	\$22.39		
8 mm	R1/4	BCS 8 N1/4	\$22.32	BTS 8 R1/4	\$24.49	FCS 8 N1/4	\$10.37	MCS 8 R1/4	\$9.22	MES 8 R1/4	\$17.62	RTS 8 R1/4	\$24.49		
8 mm	R3/8	BCS 8 N3/8	\$22.32	BTS 8 R3/8	\$26.59	FCS 8 N3/8	\$10.37	MCS 8 R3/8	\$9.74	MES 8 R3/8	\$17.72	RTS 8 R3/8	\$26.59		
10mm	R1/4	BCS 10 R1/4	\$24.86	BTS 10 R1/4	\$28.14	FCS 10 R1/4	\$11.42	MCS 10 R1/4	\$9.22	MES 10 R1/4	\$18.36	RTS 10 R1/4	\$28.14		
10mm	R3/8	BCS 10 R3/8	\$24.86	BTS 10 R3/8	\$28.14	FCS 10 R3/8	\$12.47	MCS 10 R3/8	\$9.36	MES 10 R3/8	\$19.06	RTS 10 R3/8	\$28.14		
12mm	R3/8	BCS 12 R3/8	\$27.80	BTS 12 R3/8	\$30.82	FCS 12 R3/8	\$13.31	MCS 12 R3/8	\$11.30	MES 12 R3/8	\$23.43	RTS 12 R3/8	\$30.82		
12mm	R1/2	BCS 12 R1/2	\$27.80	BTS 12 R1/2	\$32.92	FCS 12 R1/2	\$13.95	MCS 12 R1/2	\$14.90	MES 12 R1/2	\$26.68	RTS 12 R1/2	\$32.92		

Universal Thread 316 Stainless Steel Push-In Fittings

Stainless Steel Fittings															
	Name	Female Connector		Branch Tee (Swivel)		Female Connector		Male Connector		Male Elbow (Swivel)		Run Tee (Swivel)		Tube Adaptor	
Tube OD	U 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	Part No.	Unit Price
5/32	U1/8"	BCS 5/32 U1/8		BTS 5/32 U1/8		FCS 5/32 U1/8		MCS 5/32 U1/8	\$9.93	MES 5/32 U1/8	\$16.79	RTS 5/32 U1/8		TAS 5/32 U1/8	
1/4"	U1/8"	BCS 1/4 U1/8		BTS 1/4 U1/8		FCS 1/4 U1/8		MCS 1/4 U1/8	\$9.93	MES 1/4 U1/8	\$17.69	RTS 1/4 U1/8		TAS 1/4 U1/8	
1/4"	U1/4"	BCS 1/4 U1/4		BTS 1/4 U1/4		FCS 1/4 U1/4		MCS 1/4 U1/4	\$9.93	MES 1/4 U1/4	\$18.87	RTS 1/4 U1/4		TAS 1/4 U1/4	
5/16	U1/4"	BCS 5/16 U1/4		BTS 5/16 U1/4		FCS 5/16 U1/4		MCS 5/16 U1/4	\$12.22	MES 5/16 U1/4	\$20.33	RTS 5/16 U1/4		TAS 5/16 U1/4	
3/8"	U1/4"	BCS 3/8 U1/4		BTS 3/8 U1/4		FCS 3/8 U1/4		MCS 3/8 U1/4	\$12.22	MES 3/8 U1/4	\$21.36	RTS 3/8 U1/4		TAS 3/8 U1/4	
3/8"	U3/8"	BCS 3/8 U3/8		BTS 3/8 U3/8		FCS 3/8 U3/8		MCS 3/8 U3/8	\$12.36	MES 3/8 U3/8	\$23.06	RTS 3/8 U3/8		TAS 3/8 U3/8	
6	U1/8"	BCS 6 U1/8		BTS 6 U1/8		FCS 6 U1/8		MCS 6 U1/8	\$10.98	MES 6 U1/8	\$18.87	RTS 6 U1/8			
6	U1/4"	BCS 6 U1/4		BTS 6 U1/4		FCS 6 U1/4		MCS 6 U1/4	\$10.98	MES 6 U1/4	\$18.87	RTS 6 U1/4			
8	U1/4"	BCS 8 U1/4		BTS 8 U1/4		FCS 8 U1/4		MCS 8 U1/4	\$12.22	MES 8 U1/4	\$20.62	RTS 8 U1/4			

Nickel-Plated Brass Push-In Fittings List Price

Brass Fittings								
	Bulkhead Union		Elbow Union		Straight Union		Tee Union	
Tube OD	BUB		EUB		SUB		TUB	
1/8"	BUB 1/8	\$2.85	EUB 1/8	\$2.91	SUB 1/8	\$1.73	TUB 1/8	\$3.60
5/32"	BUB 5/32	\$2.43	EUB 5/32	\$2.91	SUB 5/32	\$1.73	TUB 5/32	\$3.60
1/4"	BUB 1/4	\$2.85	EUB 1/4	\$3.33	SUB 1/4	\$1.94	TUB 1/4	\$4.08
5/16"	BUB 5/16	\$2.91	EUB 5/16	\$3.33	SUB 5/16	\$1.94	TUB 5/16	\$4.78
3/8"	BUB 3/8	\$4.50	EUB 3/8	\$4.37	SUB 3/8	\$2.70	TUB 3/8	\$5.47
1/2"	BUB 1/2	\$4.99	EUB 1/2	\$4.71	SUB 1/2	\$3.33	TUB 1/2	\$6.37
4 mm	BUB 4	\$2.43	EUB 4	\$2.91	SUB 4	\$1.73	TUB 4	\$3.60
6 mm	BUB 6	\$2.85	EUB 6	\$3.33	SUB 6	\$1.94	TUB 6	\$4.08
8 mm	BUB 8	\$2.92	EUB 8	\$3.33	SUB 8	\$1.94	TUB 8	\$4.78

Brass Fittings												
	Model		Branch Tee		Female Connector		Male Connector		Male Elbow (Swivel)		Y Connector (Swivel)	
Tube OD X Thread	BTB		FCB		MCB		MEB		YCB			
1/8" X 10-32	BTB 1/8 10-32	\$3.47	FCB 1/8 10-32	\$1.46	MCB 1/8 10-32	\$1.66	MEB 1/8 10-32	\$2.85	YCB 1/8 10-32	\$3.89		
1/8" X 1/8" NPT	BTB 1/8 N1/8	\$3.47	FCB 1/8 N1/8	\$1.46	MCB 1/8 N1/8	\$1.41	MEB 1/8 N1/8	\$2.91	YCB 1/8 N1/8	\$3.89		
5/32" X 10-32	BTB 5/32 10-32	\$3.47	FCB 5/32 10-32	\$1.46	MCB 5/32 10-32	\$1.46	MEB 5/32 10-32	\$2.85	YCB 5/32 10-32	\$3.89		
5/32" X 1/8" NPT	BTB 5/32 N1/8	\$3.47	FCB 5/32 N1/8	\$1.46	MCB 5/32 N1/8	\$1.46	MEB 5/32 N1/8	\$2.91	YCB 5/32 N1/8	\$3.89		
1/4" X 1/8" NPT	BTB 1/4 N1/8	\$4.02	FCB 1/4 N1/8	\$1.46	MCB 1/4 N1/8	\$1.46	MEB 1/4 N1/8	\$3.19	YCB 1/4 N1/8	\$4.50		
1/4" X 1/4" NPT	BTB 1/4 N1/4	\$4.02	FCB 1/4 N1/4	\$1.66	MCB 1/4 N1/4	\$1.66	MEB 1/4 N1/4	\$3.47	YCB 1/4 N1/4	\$4.50		
1/4"X 3/8" NPT	BTB 1/4 N3/8	\$4.02	FCB 1/4 N3/8	\$1.94	MCB 1/4 N3/8	\$1.94	MEB 1/4 N3/8	\$3.81	YCB 1/4 N3/8	\$4.71		
5/16" X 1/4" NPT	BTB 5/16 N1/4	\$4.02	FCB 5/16 N1/4	\$1.94	MCB 5/16 N1/4	\$1.87	MEB 5/16 N1/4	\$4.31	YCB 5/16 N1/4	\$5.13		
5/16" X 3/8" NPT	BTB 5/16 N3/8	\$5.20	FCB 5/16 N3/8	\$2.01	MCB 5/16 N3/8	\$2.01	MEB 5/16 N3/8	\$4.37	YCB 5/16 N3/8			
3/8" X 1/4" NPT	BTB 3/8 N1/4	\$5.20	FCB 3/8 N1/4	\$2.01	MCB 3/8 N1/4	\$2.15	MEB 3/8 N1/4	\$4.71	YCB 3/8 N1/4	\$5.89		
3/8" X 3/8" NPT	BTB 3/8 N3/8	\$5.20	FCB 3/8 N3/8	\$2.01	MCB 3/8 N3/8	\$2.29	MEB 3/8 N3/8	\$4.85	YCB 3/8 N3/8	\$5.96		
3/8" X 1/2" NPT	BTB 3/8 N1/2	\$5.20	FCB 3/8 N1/2	\$3.03	MCB 3/8 N1/2	\$3.05	MEB 3/8 N1/2	\$5.41	YCB 3/8 N1/2	\$6.24		
1/2" X 3/8" NPT	BTB 1/2 N3/8	\$5.25	FCB 1/2 N3/8	\$2.42	MCB 1/2 N3/8	\$2.43	MEB 1/2 N3/8	\$5.27	YCB 1/2 N3/8			
1/2" X 1/2" NPT	BTB 1/2 N1/2	\$5.68	FCB 1/2 N1/2	\$2.66	MCB 1/2 N1/2	\$3.33	MEB 1/2 N1/2	\$5.68	YCB 1/2 N1/2	\$6.24		
4 mm X M5	BTB 4 M5	\$3.47	FCB 4 M5	\$1.25	MCB 4 M5	\$1.25	MEB 4 M5	\$1.25	YCB 4 M5	\$3.89		
4 X 1/8" NPT	BTB 4 N1/8	\$3.47	FCB 4 N1/8	\$1.25	MCB 4 N1/8	\$1.25	MEB 4 N1/8	\$2.91	YCB 4 N1/8	\$3.89		
8 mm X 1/4" NPT	BTB 8 N1/4	\$4.02	FCB 8 N1/4	\$1.94	MCB 8 N1/4	\$2.15	MEB 8 N1/4	\$4.31	YCB 8 N1/4			
8 mm X 3/8" NPT	BTB 8 N3/8	\$4.02	FCB 8 N3/8	\$2.01	MCB 8 N3/8	\$2.01	MEB 8 N3/8	\$4.37	YCB 8 N3/8			

Stainless Steel & Nickel-Plated Brass Push-In Fittings Specifications



A. Installation of Pipe Fittings:

1. Tighten fitting by hand, then turn it 2-3 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.
4. Hard metal tubing can be used for all metal Stainless Steel and all Brass fittings if the 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 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 Schematic of Typical Construction:

	Stainless Steel Fittings	Nickel-Plated Brass Fittings
Operating Pressure	0 - 250 PSI (0 - 1650 kpa)	0 - 250 PSI (0 - 1650 kpa)
Vacuum	0 - 30" Hg (0 - 760 mm Hg)	0 - 30" Hg (0 - 760 mm Hg)
Operating Temperature	5 - 230 °F (-15 to 110 °C)	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	Nickel-Plated Brass
Plastic Body	None	None
Release Button	300 series Stainless Steel	Nickel-Plated Brass
Grip Ring or Collet	300 series Stainless Steel	300 series Stainless Steel
O-ring	VITON	NBR
Thread Sealant	None	Teflon
Service	Air, Liquid	Air, Liquid
Sterilization Temperature	Up to 280°F (138°C)	

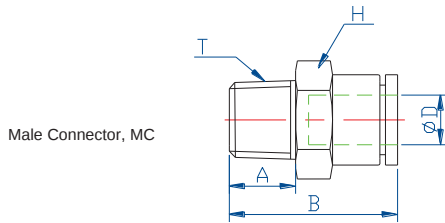
Gripper Style SS Fitting



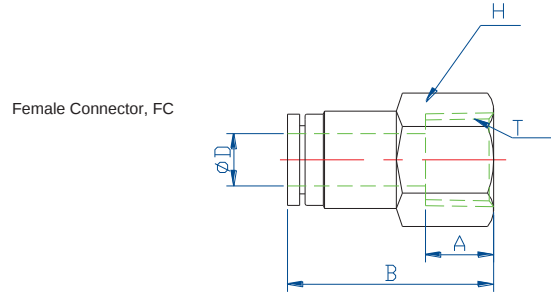
Collet Style SS Fitting



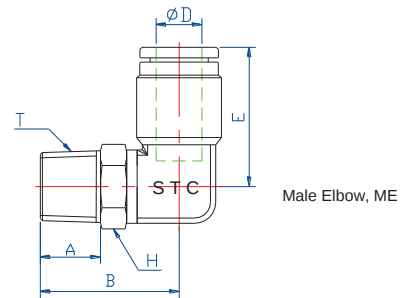
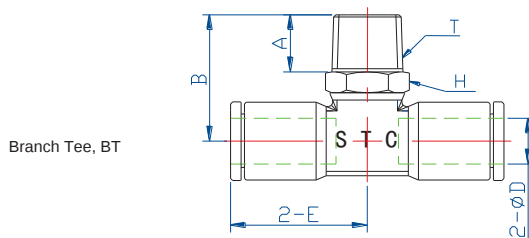
Stainless Steel & Nickel-Plated Brass Push-In Fittings Dimensions



Part No.	Part No.	ΦD	Pipe Size	A	B	H
MCB 1/8 10-32	MCS 1/8 10-32	1/8	10-32	5	20	S11
MCB 1/8 N1/8	MCS 1/8 N1/8	1/8	1/8 NPT	8	17	S11
MCB 1/8 N1/4	MCS 1/8 N1/4	1/8	1/4 NPT	11	21	S14
MCB 5/32 10-32	MCS 5/32 10-32	5/32	10-32	5	20	S10
MCB 5/32 N1/8	MCS 5/32 N1/8	5/32	1/8 NPT	8	17	S11
MCB 1/4 N1/8	MCS 1/4 N1/8	1/4	1/8 NPT	8	21	S12
MCB 1/4 N1/4	MCS 1/4 N1/4	1/4	1/4 NPT	11	21	S14
MCB 1/4 N3/8	MCS 1/4 N3/8	1/4	3/8 NPT	12.5	22.5	S17
MCB 1/4 10-32	MCS 1/4 10-32	1/4	10-32	5	23	S12
MCB 5/16 N1/4	MCS 5/16 N1/4	5/16	1/4 NPT	11	25.5	S14
MCB 5/16 N3/8	MCS 5/16 N3/8	5/16	3/8 NPT	12.5	24	S17
MCB 3/8 N1/8	MCS 3/8 N1/8	3/8	1/8 NPT	9	29	S17
MCB 3/8 N1/4	MCS 3/8 N1/4	3/8	1/4 NPT	11	27	S17
MCB 3/8 N3/8	MCS 3/8 N3/8	3/8	3/8 NPT	12.5	26	S17
MCB 3/8 N1/2	MCS 3/8 N1/2	3/8	1/2 NPT	15	28	S22
MCB 1/2 N1/4	MCS 1/2 N1/4	1/2	1/4 NPT	11	33	S19
MCB 1/2 N3/8	MCS 1/2 N3/8	1/2	3/8 NPT	12.5	29.8	S19
MCB 1/2 N1/2	MCS 1/2 N1/2	1/2	1/2 NPT	15	30.4	S22
MCB 4 M5	MCS 4 M5	4mm	M5	5	20	S10
MCB 4 N1/8	MCS 4 N1/8	4mm	1/8 NPT	8	17	S10
MCS 8 N1/4	MCS 8 N1/4	8mm	1/4 NPT	11	25.5	S14
MCS 8 N3/8	MCS 8 N3/8	8mm	3/8 NPT	12.5	24	S17



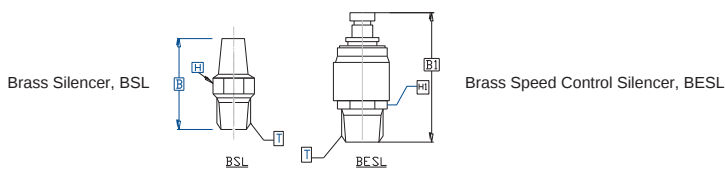
Part No.	Part No.	ΦD	T, Thread	A	B	H
FCB 1/8 10-32	FCS 1/8 10-32	1/8	10-32	5.4	21	S12
FCB 1/8 N1/8	FCS 1/8 N1/8	1/8	1/8 NPT	9	22	S14
FCB 5/32 10-32	FCS 5/32 10-32	5/32	10-32	5.4	21	S12
FCB 5/32 N1/8	FCS 5/32 N1/8	5/32	1/8 NPT	9	22	S14
FCB 1/4 N1/8	FCS 1/4 N1/8	1/4	1/8 NPT	9	25.7	S14
FCB 1/4 N1/4	FCS 1/4 N1/4	1/4	1/4 NPT	12	28.7	S17
FCB 1/4 N3/8	FCS 1/4 N3/8	1/4	3/8 NPT	12.5	29.2	S19
FCB 5/16 N1/4	FCS 5/16 N1/4	5/16	1/4 NPT	12	31.5	S17
FCB 3/8 N1/4	FCS 3/8 N1/4	3/8	1/4 NPT	12	31	S17
FCB 3/8 N3/8	FCS 3/8 N3/8	3/8	3/8 NPT	12.5	33	S19
FCB 3/8 N1/2	FCS 3/8 N1/2	3/8	1/2 NPT	14.7	35.5	S24
FCB 1/2 N1/4	FCS 1/2 N1/4	1/2	1/4 NPT	12	33.2	S19
FCB 1/2 N3/8	FCS 1/2 N3/8	1/2	3/8 NPT	12.5	33.7	S19
FCB 1/2 N1/2	FCS 1/2 N1/2	1/2	1/2 NPT	15.8	37	S24
FCB 4 M5	FCS 4 M5	4	M5	5.4	21	S12
FCB 4 N1/8	FCS 4 N1/8	4	1/8 NPT	9	22	S14
FCB 8 N1/4	FCS 8 N1/4	8	1/4 NPT	12	31.5	S17
FCB 8 N3/8	FCS 8 N3/8	8	3/8 NPT	12.5	32.5	S19



ΦD	T, Thread	H	Part No.	Part No.	A	B	E	Part No.	Part No.	A	B	E
1/8	10-32	S11	BTB 1/8 10-32	BTS 1/8 10-32	5.4	19.4	16.2	MEB 1/8 10-32	MES 1/8 10-32	5.4	19.4	16.2
1/8	1/8 NPT	S11	BTB 1/8 N1/8	BTS 1/8 N1/8	8.2	22.4	16.2	MEB 1/8 N1/8	MES 1/8 N1/8	8.1	18.8	16.2
5/32"	10-32	S11	BTB 5/32 10-32	BTS 5/32 10-32	5.4	19.4	16.2	MEB 5/32 10-32	MES 5/32 10-32	5.4	19.5	16.2
5/32"	1/8 NPT	S11	BTB 5/32 N1/8	BTS 5/32 N1/8	8.2	19.4	16.2	MEB 5/32 N1/8	MES 5/32 N1/8	8.1	19.1	16.2
1/4"	1/8 NPT	S11	BTB 1/4 N1/8	BTS 1/4 N1/8	8.2	21	20	MEB 1/4 N1/8	MES 1/4 N1/8	8.1	21	17.5
1/4"	1/4 NPT	S14	BTB 1/4 N1/4	BTS 1/4 N1/4	11.5	24.7	20	MEB 1/4 N1/4	MES 1/4 N1/4	11.5	25.3	17.5
1/4"	3/8 NPT	S17	BTB 1/4 N3/8	BTS 1/4 N3/8	12	25.2	20	MEB 1/4 N3/8	MES 1/4 N3/8	12	25.8	17.5
5/16"	1/4 NPT	S14	BTB 5/16 N1/4	BTS 5/16 N1/4	11.5	25.9	21.5	MEB 5/16 N1/4	MES 5/16 N1/4	11.5	26.6	22.5
5/16"	3/8 NPT	S17	BTB 5/16 N3/8	BTS 5/16 N3/8	12	26.4	21.5					
3/8"	1/4 NPT	S14	BTB 3/8 N1/4	BTS 3/8 N1/4	11.5	27.5	25.5	MEB 3/8 N1/4	MES 3/8 N1/4	11.5	26.5	25.8
3/8"	3/8 NPT	S17	BTB 3/8 N3/8	BTS 3/8 N3/8	12	28	25.5	MEB 3/8 N3/8	MES 3/8 N3/8	12	27	25.8
3/8"	1/2 NPT	S22	BTB 3/8 N1/2	BTS 3/8 N1/2	15	31	25.5	MEB 3/8 N1/2	MES 3/8 N1/2	15	30	25.8
1/2"	1/4 NPT	S14	BTB 1/2 N1/4	BTS 1/2 N1/4	15	28.8	27.5	MEB 1/2 N1/4	MES 1/2 N1/4	11.5	27.8	27.4
1/2"	3/8 NPT	S17	BTB 1/2 N3/8	BTS 1/2 N3/8	12	29.3	27.5	MEB 1/2 N3/8	MES 1/2 N3/8	12	28.3	27.4
1/2"	1/2 NPT	S22	BTB 1/2 N1/2	BTS 1/2 N1/2	15	32.3	27.5	MEB 1/2 N1/2	MES 1/2 N1/2	15	31.3	27.4
4	M5	S11	BTB 4 M5	BTS 4 M5	5.4	19.4	16.2	MEB 4 M5	MES 4 M5	5.4	19.5	16.2
4	1/8 NPT	S11	BTB 4 N1/8	BTS 4 N1/8	8.2	22.4	16.2	MEB 4 N1/8	MES 4 N1/8	8.2	18.8	16.2
8	1/4 NPT	S14	BTB 8 N1/4	BTS 8 N1/4	11.5	25.9	21.5	MEB 8 N1/4	MES 8 N1/4	11.5	26.6	22.5
8	3/8 NPT	S17	BTB 8 N3/8	BTS 8 N3/8	12	26.4	21.5	MEB 8 N3/8	MES 8 N3/8	12	27.1	22.5

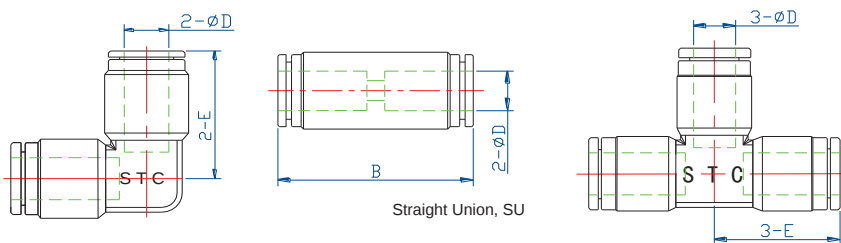
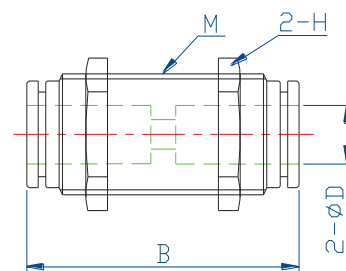
Units in mm

Stainless Steel & Nickel-Plated Brass Push-In Fittings Dimensions



Part No.	Part No.	Port NPT	A	B	H	B1	H1
BSL-N1/8	BESL-N1/8	1/8	0.39	0.99	0.47	1.37	0.47
BSL-N1/4	BESL-N1/4	1/4	0.47	1.28	0.59	1.56	0.55
BSL-N3/8	BESL-N3/8	3/8	0.53	1.60	0.75	1.77	0.66
BSL-N1/2	BESL-N1/2	1/2	0.59	1.85	0.86	2.31	0.94

Bulkhead Union, BU



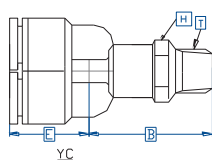
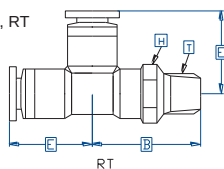
Elbow Union, EU

Tee Union, TU

ΦD	Part No.	Part No.	E	Part No.	Part No.	B	Part No.	Part No.	E
1/8	EUB 1/8	EUS 1/8	16.2	SUB 1/8	SUS 1/8	35.5	TUB 1/8	TUS 1/8	16.25
5/32	EUB 5/32	EUS 5/32	16.2	SUB 5/32	SUS 5/32	35.5	TUB 5/32	TUS 5/32	16.25
1/4	EUB 1/4	EUS 1/4	17.5	SUB 1/4	SUS 1/4	35.5	TUB 1/4	TUS 1/4	20
5/16	EUB 5/16	EUS 5/16	22.5	SUB 5/16	SUS 5/16	37	TUB 5/16	TUS 5/16	22.6
3/8	EUB 3/8	EUS 3/8	25.8	SUB 3/8	SUS 3/8	44	TUB 3/8	TUS 3/8	25.5
1/2	EUB 1/2	EUS 1/2	27.4	SUB 1/2	SUS 1/2	42.4	TUB 1/2	TUS 1/2	27.5
4mm	EUB 4	EUS 4	16.2	SUB 4	SUS 4		TUB 4	TUS 4	16.25
6mm	EUB 6	EUS 6		SUB 6	SUS 6	35.5	TUB 6	TUS 6	
8mm	EUB 8	EUS 8	22.5	SUB 8	SUS 8	37	TUB 8	TUS 8	22.6
10mm	EUB 10	EUS 10		SUB 10	SUS 10		TUB 10	TUS 10	
12mm	EUB 12	EUS 12		SUB 12	SUS 12		TUB 12	TUS 12	

Part No.	Part No.	ΦD	B	M	H
BUB 1/8	BUS 1/8	1/8	30.7	M10X1	S12
BUB 5/32	BUS 5/32	5/32	30.7	M10X1	S12
BUB 1/4	BUS 1/4	1/4	35.5	M12X1	S17
BUB 5/16	BUS 5/16	5/16	37	M17X1	S19
BUB 3/8	BUS 3/8	3/8	39	M17X1	S19
BUB 1/2	BUS 1/2	1/2	44	M21X1	S23
BUB 4	BUS 4	4	30.7	M10X1	S12
BUB 6	BUS 6	6	35.5	M12X1	S17
BUB 8	BUS 8	8	37	M17X1	S19
BUB 10	BUS 10	10			
BUB 12	BUS 12	12			

Run Tee, RT



Y Connector, YC

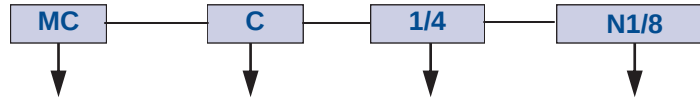


Part No.	Part No.	Part No.	Part No.	Tube OD	T, Thread	A	B	H	E	X
RTB 5/32 10-32	RTS 5/32 10-32	YCB 5/32 10-32	YCS 5/32 10-32	5/32	10-32	0.24	0.99	0.31	0.81	0.39
RTB 5/32 N1/8	RTS 5/32 N1/8	YCB 5/32 N1/8	YCS 5/32 N1/8	5/32	1/8 NPT	0.39	0.86	0.47	0.81	0.39
RTB 1/4 N1/8	RTS 1/4 N1/8	YCB 1/4 N1/8	YCS 1/4 N1/8	1/4	1/8 NPT	0.37	0.85	0.47	0.97	0.47
RTB 1/4 N1/4	RTS 1/4 N1/4	YCB 1/4 N1/4	YCS 1/4 N1/4	1/4	1/4 NPT	0.51	1.02	0.55	0.97	0.47
RTB 1/4 N3/8	RTS 1/4 N3/8	YCB 1/4 N3/8	YCS 1/4 N3/8	1/4	3/8 NPT	0.53	1.14	0.67	0.97	0.47
RTB 5/16 N1/4	RTS 5/16 N1/4	YCB 5/16 N1/4	YCS 5/16 N1/4	5/16	1/4 NPT	0.50	1.09	0.55	1.18	0.67
RTB 5/16 N3/8	RTS 5/16 N3/8	YCB 5/16 N3/8	YCS 5/16 N3/8	5/16	3/8 NPT	0.53	1.09	0.67	1.18	0.67
RTB 3/8 N1/4	RTS 3/8 N1/4	YCB 3/8 N1/4	YCS 3/8 N1/4	3/8	1/4 NPT	0.50	1.09	0.55	1.18	0.67
RTB 3/8 N3/8	RTS 3/8 N3/8	YCB 3/8 N3/8	YCS 3/8 N3/8	3/8	3/8 NPT	0.53	1.09	0.67	1.18	0.67
RTB 3/8 N1/2	RTS 3/8 N1/2	YCB 3/8 N1/2	YCS 3/8 N1/2	3/8	1/2 NPT	0.60	1.18	0.87	1.18	0.67
RTB 1/2 N3/8	RTS 1/2 N3/8	YCB 1/2 N3/8	YCS 1/2 N3/8	1/2	3/8 NPT	0.53	1.17	0.67	1.28	0.75
RTB 1/2 N1/2	RTS 1/2 N1/2	YCB 1/2 N1/2	YCS 1/2 N1/2	1/2	1/2 NPT	0.60	1.26	0.86	1.28	0.75
RTB 4 M5	RTS 4 M5	YCB 4 M5	YCS 4 M5	4mm	M5	0.24	0.99	0.31	0.81	0.39
RTB 4 N1/8	RTS 4 N1/8	YCB 4 N1/8	YCS 4 N1/8	4mm	1/8 NPT	0.39	0.86	0.47	0.81	0.39
RTB 8 N1/4	RTS 8 N1/4	YCB 8 N1/4	YCS 8 N1/4	8mm	1/4 NPT	0.50	1.09	0.55	1.18	0.67
RTB 8 N3/8	RTS 8 N3/8	YCB 8 N3/8	YCS 8 N3/8	8mm	3/8 NPT	0.53	1.09	0.67	1.18	0.67

Units in mm

STC-Lok™ Compression Fittings Numbering System

Ordering Part No. =
(eg. MCC 1/4 N1/8)



Fitting Name	Model	Material/Type	Tube OD	Thread Size	Features
BACK FERRULE	BF	C = 316 Stainless Steel Double Ferrule Compression Fittings	(inch)	Pipe Thread Sizes:	316 Stainless Steel Compression Fittings with Double Ferrules, Compatible with Swagelok®, Parker A-Lok, Let-Lok, Yor-Lok
BRANCH TEE	BT		1/16	N= NPT	
BULKHEAD UNION	BU		1/8	N1/8	
CAP	CP		3/16	N1/4	
ELBOW UNION	EU		1/4	N3/8	
FEMALE CONNECTOR	FC		5/16	N1/2	
FRONT FERRULE	FF		3/8	N3/4	
MALE CONNECTOR	MC		1/2	N1	
MALE ELBOW	ME		5/8	R= BSPT	
NUT	NT		3/4	R1/8	
PLUG	PG		1	R1/4	
REDUCED UNION	RU		(mm)	R3/8	
RUN TEE	RT		4	R1/2	
STRAIGHT UNION	SU		6	R3/4	
TEE UNION	TU		8	R1	
TUBE ADAPTOR	TA		10	Machine Threads	
TUBE STEM REDUCER	TS		12	10-32	
			14	M5	
			16	M6	
			18		
			20		

SPECIFICATIONS

Operating Temperature	-425 to 600 °F
Material of Construction	316 stainless Steel
Compatible with	Swagelok®, Parker A-Lok, Let-Lock, Yor-Lok
Service	air, water, steam, oil, gasoline, natural gas, most solvent and acids that are compatible with 316 stainless steel.

PRESSURE

Tube Size (OD)	Maximum Pressure (PSI @72 °F)*
1/16"	10000
1/8"	8800
3/16"	5500
1/4"	4200
5/16"	3300
3/8"	2800
1/2"	2500
5/8"	2300
3/4"	2100
1"	1900

* Maximum pressures are based on Type 304 and 316 annealed stainless steel welded tubing made to ASTM A213, A249, or A269 standards.

STC Stainless Steel Compression Fittings List Price



Compression Fittings												
Name	Bulkhead Union		Straight Union		Elbow Union		Tee Union		Cross Union		Reducing Union	
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"	BUC 1/8	\$23.55	SUC 1/8	\$11.71	EUC 1/8	\$15.97	TUC 1/8	\$25.52	CUC 1/8	\$52.76	RUC 1/8X1/16	\$17.21
3/16"	BUC 3/16	\$24.24	SUC 3/16	\$10.93	EUC 3/16	\$23.16	TUC 3/16	\$26.22			RUC 3/16X1/16	\$20.58
1/4"	BUC 1/4	\$16.70	SUC 1/4	\$10.83	EUC 1/4	\$16.19	TUC 1/4	\$22.18	CUC 1/4	\$42.80	RUC 3/16X1/8	\$11.21
5/16"	BUC 5/16	\$22.59	SUC 5/16	\$13.18	EUC 5/16	\$20.24	TUC 5/16	\$27.60	CUC 5/16	\$48.09	RUC 1/4X1/16	\$15.45
3/8"	BUC 3/8	\$24.22	SUC 3/8	\$15.37	EUC 3/8	\$19.25	TUC 3/8	\$29.16	CUC 3/8	\$60.43	RUC 1/4X1/8	\$12.23
1/2"	BUC 1/2	\$34.91	SUC 1/2	\$23.31	EUC 1/2	\$31.83	TUC 1/2	\$42.61	CUC 1/2	\$62.72	RUC 1/4X3/16	\$14.10
5/8"	BUC 5/8	\$51.83	SUC 5/8	\$31.99	EUC 5/8	\$42.98	TUC 5/8	\$51.94	CUC 5/8	\$93.09	RUC 5/16X1/4	\$13.60
3/4"	BUC 3/4	\$58.08	SUC 3/4	\$38.89	EUC 3/4	\$56.55	TUC 3/4	\$66.56	CUC 3/4	\$123.76	RUC 3/8X1/16	\$23.40
1	BUC 1	\$115.27	SUC 1	\$67.67	EUC 1	\$115.27	TUC 1	\$147.37	CUC 1	\$220.90	RUC 3/8X1/8	\$20.86
											RUC 3/8X1/4	\$15.94
											RUC 3/8X5/16	\$19.10
											RUC 1/2X1/8	\$34.28
4 mm	BUC 4		SUC 4		EUC 4		TUC 4		CUC 4		RUC 1/2X1/4	\$25.52
6 mm	BUC 6		SUC 6		EUC 6		TUC 6		CUC 6		RUC 1/2X3/8	\$24.89
8 mm	BUC 8		SUC 8		EUC 8		TUC 8		CUC 8		RUC 5/8X3/8	\$38.41
10 mm	BUC 10		SUC 10		EUC 10		TUC 10		CUC 10		RUC 5/8X1/2	\$37.76
12 mm	BUC 12		SUC 12		EUC 12		TUC 12		CUC 12		RUC 3/4X3/8	\$52.43

Compression Fittings														
Name	CAP		Back Ferrule		Front Ferrule		Nut		Plug		Tube Stem Reducer		Tube X Male Pipe (Butt Weld)	
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	Part No.	Unit Price
1/8"	CPC 1/8	\$7.71	BFC 1/8	\$2.09	FFC 1/8	\$2.30	NTC 1/8	\$2.54	PGC 1/8	\$7.63	TRC 1/16X1/8	\$16.20	BWC 1/8X1/8	\$8.02
3/16"	CPC 3/16	\$7.61	BFC 3/16	\$2.11	FFC 3/16	\$2.32	NTC 3/16	\$2.29	PGC 3/16	\$7.88	TRC 1/8X1/16	\$16.20	BWC 3/16X1/8	\$9.65
1/4"	CPC 1/4	\$6.53	BFC 1/4	\$1.75	FFC 1/4	\$1.90	NTC 1/4	\$2.29	PGC 1/4	\$5.86	TRC 1/4X1/8	\$12.02	BWC 1/4X1/8	\$7.79
5/16"	CPC 5/16	\$6.96	BFC 5/16	\$2.12	FFC 5/16	\$2.32	NTC 5/16	\$2.45	PGC 5/16	\$6.80	TRC 1/4X3/8	\$9.66	BWC 1/4X1/4	\$8.17
3/8"	CPC 3/8	\$8.70	BFC 3/8	\$2.07	FFC 3/8	\$2.28	NTC 3/8	\$3.10	PGC 3/8	\$6.88	TRC 1/4X1/2	\$11.34	BWC 5/16X1/4	\$12.82
1/2"	CPC 1/2	\$13.06	BFC 1/2	\$3.06	FFC 1/2	\$3.27	NTC 1/2	\$5.09	PGC 1/2	\$9.79	TRC 5/16X1/4	\$13.51	BWC 3/8X3/8	\$13.09
5/8"	CPC 5/8	\$16.43	BFC 5/8	\$3.58	FFC 5/8	\$3.79	NTC 5/8	\$7.33	PGC 5/8	\$15.17	TRC 3/8X1/4	\$11.97	BWC 3/8X1/2	\$18.01
3/4"	CPC 3/4	\$22.07	BFC 3/4	\$4.49	FFC 3/4	\$5.06	NTC 3/4	\$8.75	PGC 3/4	\$16.33	TRC 3/8X1/2	\$11.97	BWC 1/2X1/2	\$17.69
1	CPC 1	\$41.11	BFC 1	\$7.73	FFC 1	\$10.52	NTC 1	\$16.66	PGC 1	\$31.79	TRC 1/2X3/4	\$16.96	BWC 1/2X3/4	\$26.31
4 mm	CPC 4		BFC 4		FFC 4		NTC 4		PGC 4				BWC 5/8X1/2	\$20.37
6 mm	CPC 6		BFC 6		FFC 6		NTC 6		PGC 6				BWC 3/4X3/4	\$29.75
8 mm	CPC 8		BFC 8		FFC 8		NTC 8		PGC 8				BWC 1X1	\$57.55
10 mm	CPC 10		BFC 10		FFC 10		NTC 10		PGC 10					
12 mm	CPC 12		BFC 12		FFC 12		NTC 12		PGC 12					

STC Stainless Steel Compression Fittings List Price

Compression Fittings													
	Name	Branch Tee		Female Connector		Female Branch Tee		Male Connector		Male Elbow		Run Tee	
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"	10-32UNF												
1/8"	NPT1/8"	BTC 1/8 N1/8	\$25.57	FCC 1/8 N1/8	\$11.38	FBC 1/8 N1/8	\$33.39	MCC 1/8 N1/8	\$8.61	MEC 1/8 N1/8	\$14.24	RTC 1/8 N1/8	\$25.92
1/8"	NPT1/4"	BTC 1/8 N1/4	\$28.95	FCC 1/8 N1/4	\$13.28	FBC 1/8 N1/4	\$32.91	MCC 1/8 N1/4	\$9.48	MEC 1/8 N1/4	\$13.63	RTC 1/8 N1/4	\$43.31
3/16"	10-32UNF												
3/16"	NPT1/8"	BTC 3/16 N1/8	\$28.73	FCC 3/16 N1/8	\$10.96			MCC 3/16 N1/8	\$8.74	MEC 3/16 N1/8	\$14.45	RTC 3/16 N1/8	\$26.76
3/16"	NPT1/4"									MEC 3/16 N1/4	\$15.97		
3/16"	NPT3/8"												
1/4"	10-32UNF												
1/4"	NPT1/8"	BTC 1/4 N1/8	\$24.15	FCC 1/4 N1/8	\$9.66	FBC 1/4 N1/8	\$30.66	MCC 1/4 N1/8	\$7.46	MEC 1/4 N1/8	\$12.30	RTC 1/4 N1/8	\$24.54
1/4"	NPT1/4"	BTC 1/4 N1/4	\$29.07	FCC 1/4 N1/4	\$11.83	FBC 1/4 N1/4	\$34.20	MCC 1/4 N1/4	\$7.73	MEC 1/4 N1/4	\$13.31	RTC 1/4 N1/4	\$29.07
1/4"	NPT3/8"			FCC 1/4 N3/8	\$15.13	FBC 1/4 N3/8	\$54.65	MCC 1/4 N3/8	\$9.50	MEC 1/4 N3/8	\$19.89	RTC 1/4 N3/8	\$37.59
5/16"	NPT1/8"			FCC 5/16 N1/8	\$12.35			MCC 5/16 N1/8	\$9.07	MEC 5/16 N1/8	\$14.45	RTC 5/16 N1/8	\$30.80
5/16"	NPT1/4"			FCC 5/16 N1/4	\$13.03			MCC 5/16 N1/4	\$10.96	MEC 5/16 N1/4	\$14.98	RTC 5/16 N1/4	\$32.03
5/16"	NPT3/8"												
3/8"	NPT1/8"			FCC 3/8 N1/8	\$12.89			MCC 3/8 N1/8	\$10.03	MEC 3/8 N1/8	\$17.81		
3/8"	NPT1/4"	BTC 3/8 N1/4	\$30.98	FCC 3/8 N1/4	\$12.12	FBC 3/8 N1/4	\$35.16	MCC 3/8 N1/4	\$9.41	MEC 3/8 N1/4	\$16.52	RTC 3/8 N1/4	\$30.87
3/8"	NPT3/8"	BTC 3/8 N3/8	\$34.89	FCC 3/8 N3/8	\$16.33	FBC 3/8 N3/8	\$52.24	MCC 3/8 N3/8	\$11.19	MEC 3/8 N3/8	\$20.70	RTC 3/8 N3/8	\$35.75
3/8"	NPT1/2"			FCC 3/8 N1/2	\$21.64	FBC 3/8 N1/2	\$65.74	MCC 3/8 N1/2	\$12.85	MEC 3/8 N1/2	\$26.57	RTC 3/8 N1/2	\$55.23
1/2"	NPT1/4"			FCC 1/2 N1/4	\$17.09	FBC 1/2 N1/4	\$58.33	MCC 1/2 N1/4	\$14.43	MEC 1/2 N1/4	\$24.48		
1/2"	NPT3/8"	BTC 1/2 N3/8	\$46.33	FCC 1/2 N3/8	\$17.50	FBC 1/2 N3/8	\$49.04	MCC 1/2 N3/8	\$14.99	MEC 1/2 N3/8	\$24.48	RTC 1/2 N3/8	\$46.28
1/2"	NPT1/2"	BTC 1/2 N1/2	\$48.70	FCC 1/2 N1/2	\$23.50	FBC 1/2 N1/2	\$55.27	MCC 1/2 N1/2	\$16.04	MEC 1/2 N1/2	\$29.45	RTC 1/2 N1/2	\$48.70
1/2"	NPT3/4"			FCC 1/2 N3/4	\$29.28			MCC 1/2 N3/4	\$21.56	MEC 1/2 N3/4	\$43.09		
1/2"	NPT1"												
5/8"	NPT3/8"			FCC 5/8 N3/8	\$30.95			MCC 5/8 N3/8	\$20.39	MEC 5/8 N3/8	\$33.29		
5/8"	NPT1/2"	BTC 5/8 N1/2	\$60.36	FCC 5/8 N1/2	\$26.05	FBC 5/8 N1/2	\$72.54	MCC 5/8 N1/2	\$21.58	MEC 5/8 N1/2	\$35.04	RTC 5/8 N1/2	\$60.36
5/8"	NPT3/4"							MCC 5/8 N3/4	\$27.18	MEC 5/8 N3/4	\$44.58		
3/4"	NPT1/2"			FCC 3/4 N1/2	\$32.09			MCC 3/4 N1/2	\$28.26	MEC 3/4 N1/2	\$38.64		
3/4"	NPT3/4"	BTC 3/4 N3/4	\$72.85	FCC 3/4 N3/4	\$32.36	FBC 3/4 N3/4	\$94.64	MCC 3/4 N3/4	\$29.00	MEC 3/4 N3/4	\$42.05	RTC 3/4 N3/4	\$72.85
3/4"	NPT1"							MCC 3/4 N1	\$38.43				
1"	NPT1/2"												
1"	NPT3/4"			FCC 1 N3/4	\$65.90	FBC 1 N3/4	\$172.85	MCC 1 N3/4	\$48.28	MEC 1 N3/4	\$75.26		
1"	NPT1"			FCC 1 N1	\$78.58	FBC 1 N1	\$180.12	MCC 1 N1	\$44.82	MEC 1 N1	\$74.08		
4 mm	M5	BTC 4 M5		FCC 4 M5		FBC 4 M5		MCC 4 M5		MEC 4 M5		RTC 4 M5	
4mm	M6X1	BTC 4 M6		FCC 4 M6		FBC 4 M6		MCC 4 M6		MEC 4 M6		RTC 4 M6	
4 mm	R1/8	BTC 4 R1/8		FCC 4 R1/8		FBC 4 R1/8		MCC 4 R1/8		MEC 4 R1/8		RTC 4 R1/8	
4 mm	R1/4	BTC 4 R1/4		FCC 4 R1/4		FBC 4 R1/4		MCC 4 R1/4		MEC 4 R1/4		RTC 4 R1/4	
6mm	M5	BTC 6 M5		FCC 6 M5		FBC 6 M5		MCC 6 M5		MEC 6 M5		RTC 6 M5	
6mm	M6X1	BTC 6 M6		FCC 6 M6		FBC 6 M6		MCC 6 M6		MEC 6 M6		RTC 6 M6	
6mm	R1/8	BTC 6 R1/8		FCC 6 R1/8		FBC 6 R1/8		MCC 6 R1/8		MEC 6 R1/8		RTC 6 R1/8	
6mm	R1/4	BTC 6 R1/4		FCC 6 R1/4		FBC 6 R1/4		MCC 6 R1/4		MEC 6 R1/4		RTC 6 R1/4	
6mm	R3/8	BTC 6 R3/8		FCC 6 R3/8		FBC 6 R3/8		MCC 6 R3/8		MEC 6 R3/8		RTC 6 R3/8	
6mm	R1/2	BTC 6 R1/2		FCC 6 R1/2		FBC 6 R1/2		MCC 6 R1/2		MEC 6 R1/2		RTC 6 R1/2	
8mm	R1/8	BTC 8 R1/8		FCC 8 R1/8		FBC 8 R1/8		MCC 8 R1/8		MEC 8 R1/8		RTC 8 R1/8	
8 mm	R1/4	BTC 8 R1/4		FCC 8 R1/4		FBC 8 R1/4		MCC 8 R1/4		MEC 8 R1/4		RTC 8 R1/4	
8 mm	R3/8	BTC 8 R3/8		FCC 8 R3/8		FBC 8 R3/8		MCC 8 R3/8		MEC 8 R3/8		RTC 8 R3/8	
8mm	R1/2	BTC 8 R1/2		FCC 8 R1/2		FBC 8 R1/2		MCC 8 R1/2		MEC 8 R1/2		RTC 8 R1/2	
10mm	R1/8	BTC 10 R1/8		FCC 10 R1/8		FBC 10 R1/8		MCC 10 R1/8		MEC 10 R1/8		RTC 10 R1/8	
10mm	R1/4	BTC 10 R1/4		FCC 10 R1/4		FBC 10 R1/4		MCC 10 R1/4		MEC 10 R1/4		RTC 10 R1/4	
10mm	R3/8	BTC 10 R3/8		FCC 10 R3/8		FBC 10 R3/8		MCC 10 R3/8		MEC 10 R3/8		RTC 10 R3/8	
10mm	R1/2	BTC 10 R1/2		FCC 10 R1/2		FBC 10 R1/2		MCC 10 R1/2		MEC 10 R1/2		RTC 10 R1/2	
12mm	R1/4	BTC 12 R1/4		FCC 12 R1/4		FBC 12 R1/4		MCC 12 R1/4		MEC 12 R1/4		RTC 12 R1/4	
12mm	R3/8	BTC 12 R3/8		FCC 12 R3/8		FBC 12 R3/8		MCC 12 R3/8		MEC 12 R3/8		RTC 12 R3/8	
12mm	R1/2	BTC 12 R1/2		FCC 12 R1/2		FBC 12 R1/2		MCC 12 R1/2		MEC12 R1/2		RTC 12 R1/2	

Manual & Solenoid Process Valves



	Fine Quality Precision Engineered  Advanced Design Excellent Prices			

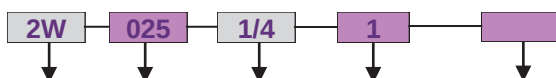


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STC Process Solenoid Valve Numbering System

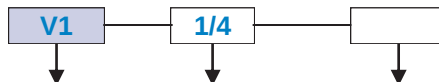
Ordering Part No. =
eg. 2W025-1/4-1



ACTION	NC/NO	Body Material	Orifice Size 10X (mm)	Port Size NPT	Voltage Options	Seal Options	Pressure (PSI)	Cv	Features
2 Way Direct Acting Zero Differential	NC	Stainless	2H	012	1/8	Blank: PTFE (standard)	0 to 1000	0.05	Operating Temp: -5 to 80 °C Operating Pressure: 2P/2V: Vacuum to 115 PSI 2S/2W: Vacuum to 150 PSI Coil: F Class, IP65, 100% ED Seals: NBR, (Viton Option) Service: Air, Gas, Liquid Wetted Parts: 2P: Plastic & Stainless Steel 2V: Aluminum & Stainless Steel 2S: Stainless Steel 2W: Brass & Stainless Steel
		Plastic	2P	1/8	1/8		Vacuum to 115	0.23	
		Aluminum	2V	1/4	1/4		Vacuum to 115	0.23	
		PTFE (Teflon)	2T	1/4	1/4		Vacuum to 22	2.8	
				3/8	3/8		Vacuum to 22	2.8	
				1/2	1/2		Vacuum to 22	2.8	
		Stainless	2S	025	1/4	Blank: NBR Options: E=EPDM, V=Viton P=PTFE (Teflon)	Vacuum to 150	0.23	
				035	1/4		Vacuum to 150	0.5	
				040	3/8		Vacuum to 150	0.6	
				050	3/8		Vacuum to 80	1.0	
		Brass	2W	025	1/4		Vacuum to 150	0.23	
				035	1/4		Vacuum to 150	0.5	
				040	3/8		Vacuum to 150	0.6	
		Stainless	2SO	040	3/8		Vacuum to 100	0.6	
		Brass	2WO				Vacuum to 100	0.6	
		Plastic	3P	010	1/8		Vacuum to 100	0.05	
		Aluminum	3V	025	1/4		Vacuum to 20	0.23	
3 Way Direct Acting Zero Differential	NC/NO	Stainless	3S	020	1/4		Vacuum to 100	0.15	Operating Temp: -5 to 80 °C Operating Pressure: Vacuum to 150 PSI Coil: H Class, IP65, 100% ED Seals: NBR, (Viton Option) Service: Air, Gas, Liquid Wetted Parts: 2S/2SO: Stainless Steel 2W/2WO: Brass & Stainless Steel
				035	1/4		Vacuum to 60	0.5	
				160	3/8		0 to 145	4.8	
		Stainless Steel	2S	160	1/2	Blank: NBR (standard) Options: E=EPDM V=Viton	0 to 145	4.8	
				200	3/4		0 to 145	7.6	
				250	1		0 to 145	12	
				350	1 1/4		0 to 145	24	
		Brass	2W	400	1 1/2		0 to 145	29	
				500	2		0 to 145	48	
		Stainless Steel	2SO	160	3/8		0 to 145	4.8	
				160	1/2		0 to 145	4.8	
				200	3/4		0 to 145	7.6	
				250	1		0 to 145	12	
		Brass	2WO	350	1 1/4		0 to 145	24	
2 Way Direct Lift Diaphragm Zero Differential	NC	Stainless Steel	2LS	120	3/8	Blank: PTFE (standard)	0 to 145	12	Operating Temp: -20 to 180 °C Operating Pressure: 0 to 150 PSI Coil: H Class, IP65, 100% ED Seals: NBR, (Viton Option) Service: Air, Gas, Liquid Wetted Parts: 2S/2SO: Stainless Steel 2W/2WO: Brass & Stainless Steel
				150	1/2		0 to 145	4.8	
				200	3/4		0 to 145	8.5	
				250	1		0 to 145	14	
				320	1 1/4		0 to 145	20	
				400	1 1/2		0 to 145	31	
				500	2		0 to 145	51	
				130	3/8	Blank: NBR (standard) Options: E=EPDM V=Viton		6.2	
		Brass	2V	130	1/2			6.2	
				250	3/4			23	
				250	1			23	
				170	3/8	Blank: PTFE (standard)		4.8	
				170	1/2			4.8	
		Brass	2L	170	3/4			4.8	
				200	1			12	
				300	1 1/2				
2 Way Pilot Piston 7 PSI Differential	NC	Brass	2M	120	3/8	Blank: PTFE Standard		4.5	Operating Temp: -20 to 180 °C Operating Pressure: 7 to 230 PSI Coil: H Class, IP65, 100% ED Seal: PTFE Service: Air, Gas, Liquid, Steam Wetted Parts: stainless Steel
				150	1/2			4.5	
				200	3/4			9.3	
				250	1			12	
		Stainless Steel	2MS	320	1 1/4			24	
				400	1 1/2			29	
				500	2			48	

STC Manual Valve Numbering System

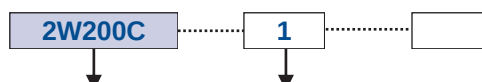
Ordering Part No. =
(eg. **V1-1/4**)



Manual Ball Valves	Model	Port Size (NPT)	Options
Reduced port 316 SS ball valve (1 Piece)	V1	1/4	L = Lockable Handle P = Panel Mount
Full port 316 SS ball valve (2 Piece)	V2	3/8	
Full port 316 SS ball valve (3 Piece)	V3	1/2	
Full port 316 SS ball valve (3 Piece, Tri-Clamp)	V3C	3/4	
Full port brass ball valve (2 Piece)	T101L	1	
Reduced port chrome plated brass ball valve (FXF port)	T400	1 1/4	
Reduced port chrome plated brass ball valve (FXM port)	T400FM	1 1/2	
316 SS Needle valve	VNO1	2	

STC Solenoid Numbering System

Ordering Part No. =
(eg. **2W200C-1**)



Coils	Model	Voltage	Wattage, W
Coil for 2P & 2V Series Valves	200C	1 = 12 VDC	3, 4.8, 6.5
Coil for 2W & 2S 025 TO 250 series valves	2W200C	2 = 24 VDC	14, 20
Coil for 2WO & 2SO 160 TO 500 series valves	2WO250C	2A = 24 VAC	20-30
Coil for 2L, 2W & 2S 350 TO 500 series valves	2W350C	3 = 110 VAC	25-35
		4 = 220VAC (50-60Hz)	

Solenoid Valve Specifications

Valve Model	2H012-032	2H080-250		2L	2LS		2MS	2MSO		2P025	3P010-025
Valve Type	2 Way	2 Way		2 Way	2 Way		2 Way	2 Way		2 Way	3 Way
Normally Closed (NC)	NC	NC		NC	NC		NC	NO		NC	NC
Normally Open (NO)	Direct Acting	Pilot Piston		Pilot Piston	Direct Lift Piston		Pilot Piston	Pilot Piston		Direct Acting	Direct Acting
Operating Pressure (PSI)	0 to 1000	45 to 725		7 to 232	0 to 150		7 to 230	7 to 230		0 to 115	0 up to 115
Operating Temperature (°C)	-20 to 85°C	-20 to 90°C		-20 to 180°C	-20 to 180°C		-20 to 180°C	-20 to 180°C		-5 to 80°C	-5 to 80°C
Ambient Temperature (°C)	-20 to 55°C	-20 to 55°C		-20 to 55°C	-20 to 55°C		-20 to 55°C	-20 to 55°C			
Port Size (NPT)	1/8	3/8 to 1		3/8 to 2	3/8 to 2		3/8 to 2	3/8 to 2		1/8 to 1/4	1/8 to 1/4
Body Materials	Stainless Steel	Brass		Brass	Stainless Steel		Stainless Steel	Stainless Steel		Engineered Plastic	Engineered Plastic
Seal Materials	PTFE/Teflon	PTFE/Teflon		PTFE/Teflon	PTFE/Teflon		PTFE/Teflon	PTFE/Teflon		NBR	NBR
Coil Protection Insulation Class	H Class IP65	H Class IP65		H Class IP65	H Class IP65		H Class IP65	H Class IP65		B Class IP65	B Class IP65
Coil Duty	100% ED	100% ED		100% ED	100% ED		100% ED	100% ED		100% ED	100% ED
Coil Power	14W	8 W, 14VA		30-35W	30-35 W		15 W, 22VA	15 W, 22VA		6.5W	6.5W
Electrical Connections	Conduit	DIN		DIN	DIN		DIN	DIN		DIN	DIN
Service	Air, Liquid			Air, Liquid, Steam			Air, Liquid, Steam			Air, Liquid, Vacuum	

Valve Model	2S025-050	2S160-500	2SO160-500	2T	2V025	2V130-250	2W025-040	2W160-500	2WO160-500	3S010-050	3W010-050
Valve Type	2 Way	2 Way	2 Way	2 Way	2 Way	2 Way	2 Way	2 Way	2 Way	3 Way	3 Way
Normally Closed (NC)	NC	NC	NO	NC	NC	NC	NC	NC	NO	NC	NC
Normally Open (NO)	Direct Acting	Direct Lift Diaphragm	Direct Lift Diaphragm	Direct Lift Diaphragm	Direct Acting	Pilot Diaphragm	Direct Acting	Direct Lift Diaphragm	Direct Lift Diaphragm	Direct Acting	Direct Acting
Operating Pressure (PSI)	0 up to 150	0 to 150	0 to 120	0 to 22	0 to 115	4 to 115	0 to 150	0 to 150	0 to 150	0 to 100	0 to 100
Operating Temperature (°C)	-5 to 80°C	-5 to 80°C	-5 to 80°C	-20 to 80°C	-5 to 80°C	-5 to 80°C	-10 to 80°C	-10 to 80°C	-10 to 80°C	-10 to 80°C	-10 to 80°C
Ambient Temperature (°C)	-20 to 55°C	-20 to 55°C	-20 to 55°C	-20 to 55°C			-20 to 55°C	-20 to 55°C	-20 to 55°C	-20 to 55°C	-20 to 55°C
Port Size (NPT)	1/4 to 3/8	3/8 to 2	3/8 to 2	1/4 to 1/2	1/8 to 1/4	3/8 to 1	1/4 to 3/8	3/8 to 2	3/8 to 2	1/8 to 1/4	1/8 to 1/4
Body Materials	Stainless Steel	Stainless Steel	Stainless Steel	Teflon	Aluminum	Brass	Brass	Brass	Brass	Stainless Steel	Brass
Seal Materials: NBR (Options: EPDM, Viton)	NBR	NBR	NBR	Viton/EPDM	NBR	NBR/Viton	NBR	NBR	NBR	NBR	NBR
Coil Protection Insulation Class	H Class IP65	H Class IP65	H Class IP65	H Class IP65	B Class IP65	B Class IP65	H Class IP65	H Class IP65	H Class IP65	H Class IP65	H Class IP65
Coil Duty	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED	100% ED
Coil Power	14-20W	20-35W	30W	20W	6.5W	6.5W	14 to 20W	20-35W	30W	14-20W	14-20W
Electrical Connections	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
Service	Air, Gas, Liquid, Vacuum			Air, Liquid	Air, Vacuum	Air, Liquid	Air, Gas, Liquid, Vacuum				

Process Solenoid Valve List Price

To Order, Please Specify: 1. Model No. , 2. Voltage								
Direct Acting	Valve Type	Part No.	List Price	Port Size (NPT)	Voltage Options	Power (W)	Cv	Features
	2 Way, NC Direct Acting Plastic Body	2P025-1/8S	\$21.35	1/8	1 = 12 VDC 2 = 24VDC	3-6.5	0.23	2 Way, Direct Acting, Normally Closed Operating Temp: -5 to 80 °C Operating Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Seals: NBR Wetted Surfaces: 2P025-1/8S: Nylon & Stainless Steel (for DI water) 2P025: Nylon, Brass & Stainless Steel 2V025: Anodized Aluminum, Brass & Stainless Steel
		2P025-1/8	\$19.35	1/8			0.23	
		2P025-1/4	\$19.35	1/4			0.23	
	2 Way, NC Direct Acting Aluminum Body	2V025-1/8	\$19.75	1/8	2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	3-6.5	0.23	
		2V025-1/4	\$19.75	1/4			0.23	
	2 Way, NC Direct Acting Brass Body	2S025-1/8H	\$29.80	1/8	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	10-14	0.23	2 Way, Direct Acting, Normally Closed Operating Temp: -5 to 80 °C Operating Pressure: Vacuum to 150 PSI Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR Body Material: 2S Series: 304 Stainless Steel Hex Shape Body 2W Series: Brass Hex Shape Body
		2S025-1/4H	\$29.80	1/4			0.23	
	2 Way, NC Direct Acting Brass Body	2W025-1/8H	\$27.80	1/8			0.23	
		2W025-1/4H	\$27.80	1/4			0.23	
	2 Way, NC Direct Acting Brass Body	2W035-1/4	\$32.88	1/4			0.5	2 Way, Direct Acting, Normally Closed Operating Temp: -5 to 80 °C Operating Pressure: Vacuum to 150 PSI Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR Body Material: Brass
		2W040-3/8	\$35.87	3/8			0.60	
	2 Way, NC Direct Acting Stainless Steel Body	2S025-1/4	\$32.22	1/4	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	14-20	0.23	2 Way, Direct Acting, Normally Closed Operating Temp: -5 to 80 °C Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Options: Viton, EPDM) Body Material: 304 Stainless Steel Body Operating Pressure: 2S025: Vacuum to 200 PSI 2S035: Vacuum to 150 PSI 2S040: Vacuum to 150 PSI 2S050: Vacuum to 80 PSI
		2S035-1/4	\$35.22	1/4			0.5	
		2S040-3/8	\$44.70	3/8			0.6	
		2S050-1/4	\$44.70	1/4			1.0	
		2S050-3/8	\$44.70	3/8			1.0	
	1000/500 PSI, 2 Way, NC Direct Acting Stainless Steel	2H012	\$59.06	1/8	1 = 12 VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	15	0.05	2 Way, Direct Acting, Normally Closed Operating Temp: 0 to 85 °C Operating Pressure: Vacuum to 1000 PSI Coil: H Class, IP65, 100% ED Service: Air, Liquid Seals: Teflon Body Material: Stainless Steel
		2H016	\$59.06	1/8			.085	
	2 Way, NO Direct Acting Stainless Steel	2SO025-1/44	\$57.17	1/4	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	30		2 Way, Direct Acting, Normally Open Operating Temp: -5 to 80 °C Operating Pressure: Vacuum to 90 PSI Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Viton Option) Body Material: 2S Series: 304 Stainless Steel Body 2W Series: Brass
		2SO040-3/8	\$66.99	3/8			0.6	
	2 Way, NO Direct Acting Brass	2WO025-1/4	\$51.24	1/4				
		2WO040-3/8	\$59.64	3/8			0.6	
	3 Way, NC Direct Acting Aluminum	3V010-1/8	\$20.79	1/8	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	3-6.5	0.05	3 Way, Direct Acting Operating Temp: -5 to 80 °C Pressure: Vacuum to 115 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid Seals: NBR Body Material: Anodized Aluminum
		3V010-1/4	\$20.79	1/4			0.05	
	3 Way, NC Direct Acting Stainless Steel	3S020-1/4	\$61.95	1/4	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	14-20	0.2	3 Way, Direct Acting Operating Temp: -5 to 80 °C Pressure: 3S020 Vacuum to 100 PSI, 3S035 Vacuum to 60 PSI, Coil: H Class, IP65, 100% ED Service: Air, Liquid Seal: Viton Body Material: Stainless Steel
		3S035-1/4	\$61.95	1/4			0.35	

Process Solenoid Valve List Price



To Order, Please Specify: 1. Model No. , 2. Voltage								
		Part No.	List Price	Port Size (NPT)	Voltage Options	Power (W)	Cv	Features
	2 Way, NC Direct Lift Diaphragm Brass Zero Differential	2W160-3/8	\$62.80	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	14-20	4.8	Normally Closed, 2 Way Direct Lift Diaphragm
		2W160-1/2	\$67.30	1/2			4.8	Operating Temp: -5 to 80 °C (with NBR Seal) -5 to 120 °C (with Viton Seal)
		2W200-3/4	\$72.80	3/4			7.6	
		2W250-1	\$92.63	1		30-35	12	Operating Pressure: Vacuum to 150 PSI (AC Coil) Vacuum to 100 PSI (DC Coil)
		2W350-1 1/4	\$177.75	1 1/4			24	
		2W400-1 1/2	\$204.55	1 1/2			29	Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Option: Viton, EPDM) Body Material: Brass
		2W500-2	\$286.90	2			48	
	2 Way, NC Direct Lift Diaphragm Stainless Steel Zero Differential	2S160-3/8	\$108.63	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	14-20	4.8	Normally Closed, 2 Way Direct Lift Diaphragm
		2S160-1/2	\$108.63	1/2			4.8	Operating Temp: -5 to 80 °C (with NBR Seal) -5 to 120 °C (with Viton Seal)
		2S200-3/4	\$123.19	3/4			7.6	
		2S250-1	\$138.46	1		30-35	12	Operating Pressure: Vacuum to 150 PSI (AC Coil) Vacuum to 100 PSI (DC Coil)
		2S350-1 1/4	\$251.71	1 1/4			24	
		2S400-1 1/2	\$268.54	1 1/2			29	Coil: H Class, IP65, 100% ED Service: Air, Gas, Liquid Seals: NBR, (Option: Viton, EPDM) Body Material: 304 Stainless Steel
		2S500-2	\$419.54	2			48	
	2 Way, NC Direct Lift Diaphragm Plastic Zero Differential	2P160-1/2	\$46.67	1/2	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	20-30	4.8	Normally Closed, 2 Way Direct Lift Diaphragm
		2P200-3/4	\$55.51	3/4			4.8	Operating Temp: 0 to 50 °C Operating Pressure: Vacuum to 90 PSI Coil: H Class, IP65, 100% ED Service: Air, Liquid Seals: NBR, (Option: Viton, EPDM) Body Material: Nylon Plastic
		2P250-1	\$76.13	1			7.6	
	2 Way, NO Direct Lift Diaphragm Brass Zero Differential	2WO 160-3/8	\$96.16	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	30	4.8	Normally Open 2 Way, Direct Lift Diaphragm
		2WO 160-1/2	\$96.16	1/2			4.8	Operating Temp: -5 to 80 °C (with NBR Seal) -5 to 120 °C (with Viton Seal)
		2WO 200-3/4	\$104.87	3/4			7.6	
		2WO 250-1	\$122.38	1			12	Pressure: Vacuum to 90 PSI Coil: H Class, IP65, 100% ED Service: Air, Liquid Seals: NBR (Option: Viton, EPDM) Body Material: Brass
		2WO 350-1 1/4	\$215.25	1 1/4			24	
		2WO 400-1 1/2	\$257.58	1 1/2			29	
		2WO 500-2	\$348.48	2			48	
	2 Way, NO Direct Lift Diaphragm Stainless Steel Zero Differential	2SO 160-3/8	\$124.95	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	30	4.8	Normally Open 2 Way, Direct Lift Diaphragm
		2SO 160-1/2	\$136.33	1/2			4.8	Operating Temp: -5 to 80 °C (with NBR Seal) -5 to 120 °C (with Viton Seal)
		2SO 200-3/4	\$159.09	3/8			7.6	
		2SO 250-1	\$249.90	1			12	Pressure: Vacuum to 90 PSI Coil: H Class, IP65, 100% ED Service: Air, Liquid Seals: NBR (Option: Viton, EPDM) Body Material: Stainless Steel
		2SO 350-1 1/4		1 1/4			24	
		2SO 400-1 1/2	\$346.50	1 1/2			29	
		2SO 500-2	\$472.50	2			48	
	2 Way, NC Pilot Piston Plastic	2PO160-1/2	\$67.67	1/2	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	30-35	4.8	Normally Open 2 Way, Direct Lift Diaphragm
		2PO200-3/4	\$76.51	3/4			4.8	Temperature: 0 to 50°C Pressure: Vacuum to 90 PSI Coil: H Class, IP65, 100% ED Service: Air, Liquid, Vacuum Seals: NBR Body Material: Nylon Plastic
		2PO250-1	\$97.13	1			4.8	
	2 Way, NC Pilot Piston Brass	2L170-3/8	\$136.36	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	30-35	4.8	Normally Closed, 2 Way, Pilot Lift Piston
		2L170-1/2	\$136.36	1/2			4.8	Brass Body, Seals: PTFE Operating Temp: -5 to 180 °C
		2L170-3/4	\$143.94	3/4			4.8	Operating Pressure: 7 to 232 PSI Coil: F Class, IP65, 100% ED Service: Air, Liquid, Steam Installation: Vertical Coil Position, Horizontal Flow
		2L200-1	\$167.74	1			12	
		2L300-1 1/4	\$194.80	1 1/4			20	
		2L300-1 1/2	\$298.48	1 1/2			20	
		2L500-2		2			48	
	2 Way, NC Direct Lift Piston Zero Differential Stainless Steel	2LS120 - 3/8	\$134.40	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	15W	4.5	Normally Closed, 2 Way, Direct Lift Piston Operation
		2LS150 - 1/2	\$159.09	1/2			4.5	Operating Pressure: 0 to 150 PSI Fluid Temperature: -20°C to 180°C Seal: PTFE Compatible Fluid: Steam, Air, Inert Gases, Water, Liquid, etc. Body Material: Stainless Steel
		2LS200 - 3/4	\$196.40	3/4			9.3	
		2LS250 - 1	\$245.45	1			12	
		2LS320 - 1 1/4		1 1/4			24	
		2LS400 - 1 1/2	\$356.69	1 1/2			29	
		2LS500 - 2	\$515.15	2			48	

	Valve Type	Part No.	List Price	Port Size (NPT)	Voltage	Power (W)	Cv (Orifice)	Features
	2 Way, NC Pilot Piston Stainless Steel	2MS120 - 3/8	\$145.45	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	15-30W	4.5	Normally Closed, 2 Way, Pilot Piston Operation Operating Pressure: 6 to 230 PSI Fluid Temperature: -20°C to 180°C Seal: PTFE Compatible Fluid: Steam, Air, Inert Gases, Water, Liquid, etc.
		2MS150 - 1/2	\$145.45	1/2			4.5	
		2MS200 - 3/4	\$174.24	3/4			9.3	
		2MS250 - 1	\$222.73	1			12	
		2MS320 - 1 1/4	\$315.15	1 1/4			24	
		2MS400 - 1 1/2	\$331.06	1 1/2			29	
		2MS500 - 2	\$513.64	2			48	
	2 Way, NO Pilot Piston Stainless Steel	2MSO120 - 3/8	\$178.03	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	15-30W	4.5	Normally Open, 2 Way, Pilot Piston Operation Operating Pressure: 6 to 145 PSI Fluid Temperature: -20°C to 180°C Seal: PTFE Ambient Temperature: -20 to 55°C Compatible Fluid: Steam, Air, Inert Gases, Water, Liquid, etc.
		2MSO150 - 1/2	\$178.03	1/2			4.5	
		2MSO200 - 3/4	\$206.82	3/4			9.3	
		2MSO250 - 1	\$255.30	1			12	
		2MSO320 - 1 1/4	\$347.73	1 1/4			24	
		2MSO400 - 1 1/2	\$363.64	1 1/2			29	
		2MSO500 - 2	\$546.21	2			48	
	2 Way, NC Pilot Diaphragm Brass	2V130-3/8	\$61.74	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	3 to 6.5 W	6.2 (13MM)	Normally Closed, 2 Way, Pilot Operated Diaphragm Brass Body, Seals: NBR Operating Temp -5 to 80°C Operating Pressure: 4 to 115 PSI (Option: 4-200PSI) Coil: F Class, IP65, 100% ED Service: Air, Gas, Water, Liquid
		2V130-1/2	\$61.74	1/2			6.2 (13MM)	
		2V250-3/4	\$119.07	3/4			23 (25MM)	
		2V250-1	\$119.07	1			23 (25MM)	
	Coil Options	200C-U	\$12.47	UL				
		200C-E	\$90.09	Explosion Proof				
	2 Way, NC High Pressure Valves Stainless Steel	2E100-3/8	\$404.25	3/8	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	20-25W	(10MM)	Normally Closed, 2 Way, Pilot Piston Operating Pressure: 87 to 1450PSI (Option: 87-2320 PSI) Fluid Temperature: -40°C to 180°C Seal: PTFE (Teflon) Service: Steam, Air, Inert Gases, Water, Liquid
		2E150-1/2	\$504.00	1/2			(15MM)	
		2E200-3/4	\$605.85	3/4			(20MM)	
		2E250-1	\$669.90	1			(25MM)	
	2 Way, NC High Pressure Valves Brass	2H080	\$168.61	1/4	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	8-14W	(8MM)	Normally Closed, 2 Way, Pilot Piston Operating Pressure: 45 to 725 PSI Fluid Temperature: -20 to 90°C Seal: PTFE (Teflon) Coil: 8W (DC), 14VA (AC) Service: Air, Inert Gases, Water, Liquid
		2H100	\$182.70	3/8			(10MM)	
		2H130	\$192.70	1/2			(13MM)	
		2H200	\$280.28	3/4			(20MM)	
		2H250	\$402.16	1			(25MM)	
	Teflon Diaphragm Isolated Teflon Direct Acting Solenoid Valve	2T060 - 1/4	\$268.80	1/4	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	20-30W	(6MM)	Normally Closed, 2 Way, Teflon Isolated Diaphragm, Direct Acting Fluid Temperature: 0°C to 80°C Seal: Viton, Option: EPDM Operating Pressure: 0 to 22 PSI Service: Air, Inert Gases, Water, Liquid
		2T060 - 3/8	\$268.80	3/8			(6MM)	
		2T060 - 1/2	\$268.80	1/2			(6MM)	
	2 Way, NC Pilot Diaphragm Stainless Steel Valve	2DS500-2F		2" Flange	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	12-14W 26VA	35 (50MM)	Normally Closed, 2 Way, Pilot Diaphragm Flange Connection Operating Pressure: 4 to 175 PSI (Option: 4 to 230 psi) Fluid Temperature: -5 to 80°C Seal: NBR (Options: Viton, EPDM) Coil: 12-14W (DC), 26VA (AC) Service: Air, Inert Gases, Water, Liquid
		2DS650-2 1/2F		2 1/2" Flange			52.5 (65MM)	
		2DS800-3F		3" Flange			81.7 (80MM)	
		2DS1000-4F		4" Flange			128.4 (100MM)	
		2DS1250-5F		5" Flange			221.7 (125MM)	
		2DS1500-6F		6" Flange			291.7 (150MM)	
	2 Way, NO Pilot Diaphragm Stainless Steel Valve	2DS2000-8F		8" Flange	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	12-14W 26VA	513.5 (200MM)	Normally Open, 2 Way, Pilot Diaphragm Flange Connection Operating Pressure: 4 to 115 PSI Fluid Temperature: -5 to 80°C Seal: NBR (Options: Viton, EPDM) Coil: 12-14W (DC), 26VA (AC) Service: Air, Inert Gases, Water, Liquid
		2DSO500-2F		2" Flange			35 (50MM)	
		2DSO650-2 1/2F		2 1/2" Flange			52.5 (65MM)	
		2DSO800-3F	\$1439.38	3" Flange			81.7 (80MM)	
		2DSO1000-4F		4" Flange			128.4 (100MM)	
		2DSO1250-5F		5" Flange			221.7 (125MM)	
		2DSO1500-6F		6" Flange			291.7 (150MM)	
		2DSO2000-8F		8" Flange			513.5 (200MM)	

	Part No.	List Price	Voltage Options	Electrical Connection	Power	Applications
	2W200C	\$24.26	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (AC 50/60Hz)	H Class Insulation, IP65 Duty Cycle: 100% ED	12 to 20W	For 2S/2W 025 to 250 series valves
	2W350C	\$37.54			25-35W	For 2SO/2WO 160-500 series valves
	2WO250C	\$37.54			20-30 W	For 2SO/2WO 160-500 series valves
	200C	\$8.32		D = DIN (with LED indicator) G = Grommet (12" Lead Wire) F Class Insulation, IP65	3 to 6.5 W	For 2V & 2P025-035 & 2V1, 3V1 series valves
	2W250C-DIN-1/2M	\$5.75	20" Long Cable	Molded Cable with DIN 43650 Form A Plug		
	2W250C-DIN-1M	\$6.83	40" Long Cable			

STC Manual Valve List Price

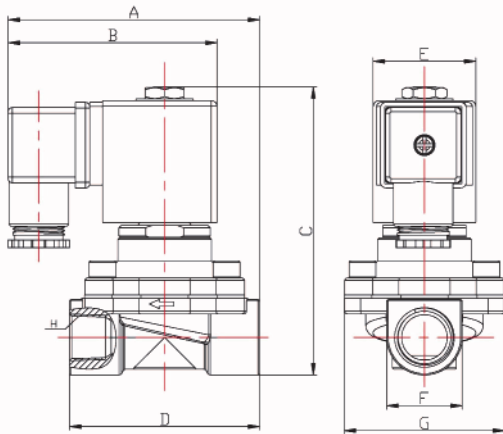
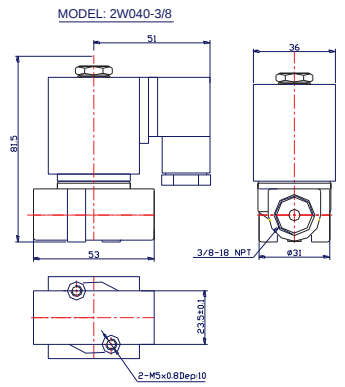
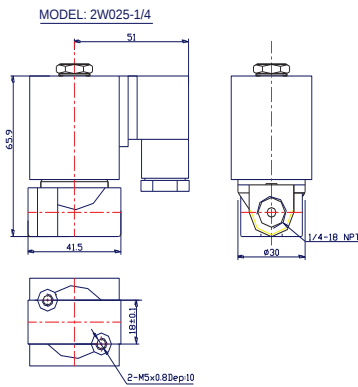
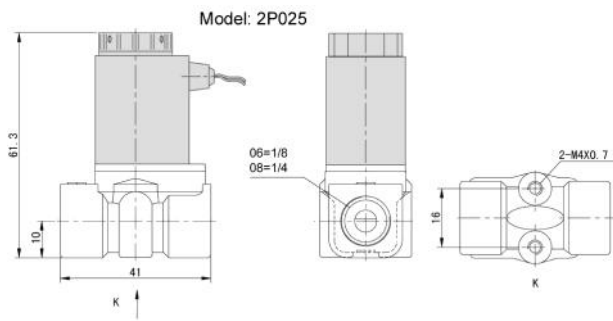
										
	Reduced Port Ball Valves		Full Port Ball Valves		Full Port Ball Valves		Full Port Ball Valves		Needle Valves	
Model	V1		V2		V3		V3C		VN01	
Material	316 SS		316 SS		316 SS		316 SS		316 Stainless Steel	
Port	FNPT		FNPT		FNPT		Clamp		FNPT	
Size 1/4"	V1-1/4	\$10.01	V2-1/4	\$16.33	V3-1/4	\$23.34			VN01-1/4	\$28.92
3/8"	V1-3/8	\$10.01	V2-3/8	\$16.33	V3-3/8	\$23.34			VN01-3/8	\$29.86
1/2"	V1-1/2	\$11.06	V2-1/2	\$19.93	V3-1/2	\$27.65			VN01-1/2	\$35.70
3/4"	V1-3/4	\$16.09	V2-3/4	\$28.78	V3-3/4	\$35.21			VN01-3/4	\$50.66
1"	V1-1	\$20.76	V2-1	\$43.11	V3-1	\$47.53	V3C-1	\$55.73	VN01-1	\$68.19
1 1/4"	V1-1 1/4	\$30.52	V2-1 1/4	\$63.70	V3-1 1/4	\$72.14				
1 1/2"	V1-1 1/2	\$37.38	V2-1 1/2	\$91.01	V3-1 1/2	\$99.75	V3C-1 1/2	\$108.11		
2"	V1-2	\$59.83	V2-2	\$110.81	V3-2	\$134.54	V3C-2	\$151.52		
3"							V3C-3	\$343.53		

								
	Miniature Ball Valves		Miniature Ball Valves		L Port 3 Way Ball Valve UL Listed Ball Valves		T Port 3 Way Ball Valve UL Listed Ball Valves	
Model	T400		T400FM		T103L		T103T	
Material	Chrome-Plated Brass		Chrome-Plated Brass		Nickel Plated Brass		Nickel Plated Brass	
Port	FNPT		F x M NPT		FNPT		FNPT	
Size 1/4"	T400-1/4	\$3.78	T400FM-1/4	\$3.78				
3/8"	T400-3/8	\$3.89	T400FM-3/8	\$3.89				
1/2"	T400-1/2	\$4.86	T400FM-1/2	\$4.86				
3/4"								
1"								
1 1/4"								
1 1/2"								
2"								

STC Digital Timer and Power Safe List Price

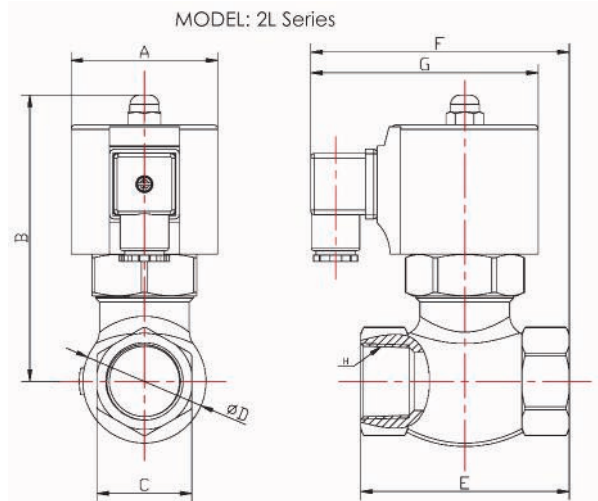
	Part No.	List Price	Voltage	Features
	2W200C-T	\$26.25	24-240VDC	ON/OFF Timer Switch ON/OFF Adjustment Duration: On 0.5 second to 10 seconds, Off 0.5 to 45 minutes. 24-AC 50/60HZ, 1A, DIN43650A Connection, for 2W200C, 2W350C, 2WO coils
	2W200C-T-D	\$43.05	24-240V	DIGITAL TIMER FOR 2W200C & 2W350C, ON/OFF TIMER, Adjustment: ON 0.5 TO 10 SECONDS, OFF 0.5 TO 45 MINUTES, FOR 2WO250C COIL For 2W200-350C coils, 50/60HZ, 1 AMP .
	2W200C-T-DH	\$54.04	110-240 DC/AC	PROGRAMMABLE DIGITAL ON/OFF Timer Switch ON/OFF Single or Multi Cycles Adjustment Duration: ON: 1 second to 99 hours OFF: 1 second to 99 hours Size: 88 X 48 x 21 (mm) Termination: DIN43650A Protection: IP65, EN60529, for 2W200C, 2W350C, 2WO coils
	2W200C-T-DL		7-36 DC/AC	
	2W200C-PS-H	\$10.40	110-280 VAC/DC 10-28W 1A	POWER SAVE DEVICE High Power Start Up Time: 0.3 - 2.5 seconds Energy Save Rate: 15 to 85 % Power Up Grade: 20 to 300% (AC only) Size: 88 X 48 x 21 (mm) Termination: DIN43650A Protection: IP65, EN60529, for 2W200C, 2W350C, 2WO coils
	2W200C-PS-L		12-36 VAC/DC 10-50W 2A	

STC Solenoid Valve Dimensions

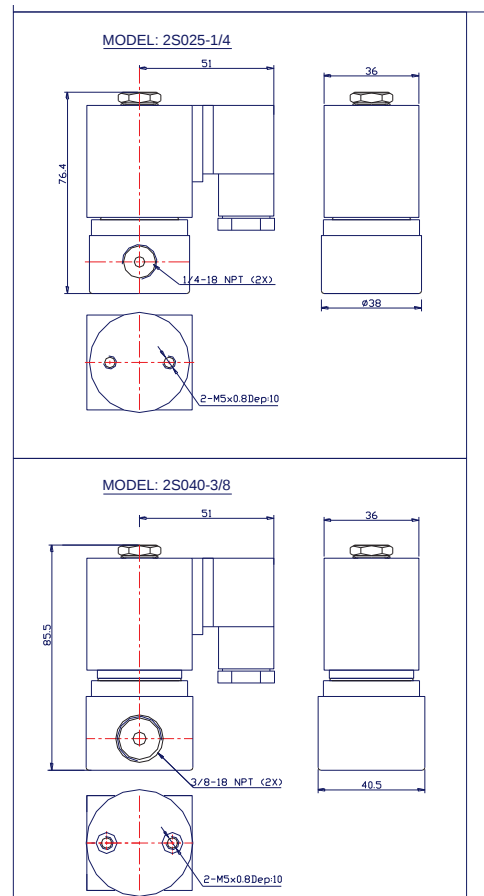


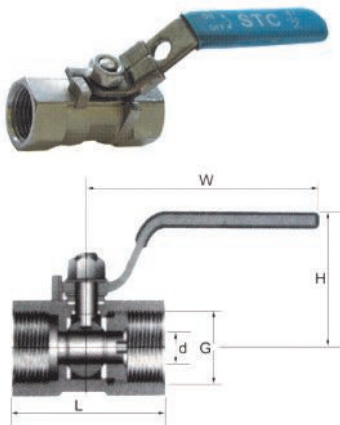
MODEL: 2W & 2S 160-500 SERIES VALVES UNIT IN MM (NOT TO SCALE)

Model: 2S & 2W Series (MM)							
		A	B	C	D	E	F
2S160-3/8	2W160-3/8	101.5	57	117	69	50	36
2S160-1/2	2W160-1/2	101.5	57	117	69	50	36
2S200-3/4	2W200-3/4	107.0	57	124	73	50	36
2S250-1	2W250-1	111.5	74	135	99	50	36
2S350-1 1/4	2W350-1 1/4	142.0	95	172	123	70.5	56
2S400-1 1/2	2W400-1 1/2	142.0	95	172	123	70.5	56
2S500-2	2W500-2	172.0	123	209	168	70.5	56



Model: 2L Series Dimensions (MM)							
Model	Port Size H (NPT)	A	B	C (hex)	E	F	G
2L170-3/8	3/8	63	125	25.4	82	109	99
2L170-1/2	1/2	63	125	29.5	82	109	99
2L170-3/4	3/4	63	125	35	82	109	99
2L200-1	1	63	125	41	91	113	99
2L300-1 1/2	1 1/2	63	145	55	112	124	99
2L500-2	2	63	183	72	165	150	99

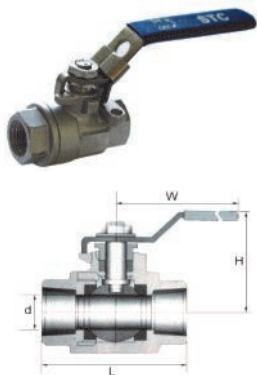




Model: V1 Specifications	
One Piece Reduced Port 316 Stainless Steel Ball Valve	
Maximum Operating Pressure: 1000 PSIG @ 100°F WOG*	
Operating Temperature Range: -60 to 450°F*	
End Connections: NPT Threaded with Padlocking device	

Dimensions (mm)					
SIZE	d	L	H	W	Wt (kg)
1/4"	5	39	35	64	0.07
3/8"	7	44	37	70	0.1
1/2"	9.2	56.5	43.5	90	0.16
3/4"	12.5	58	47	90	0.25
1"	15	70	50	103	0.43
1 1/4"	20	78	57	103	0.7
1 1/2"	24.5	83	69	127	0.83
2"	32	100	74.5	127	1.5

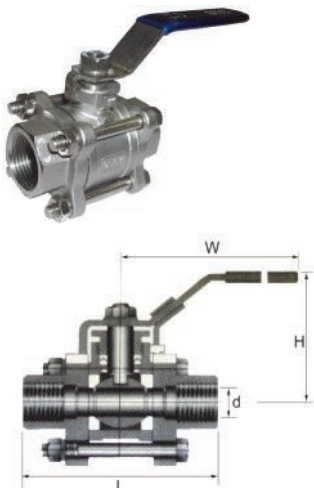
Main Parts and Materials			
No	Part Name	Material	Qty
1	SEAT	PTFE	2
2	BALL	SS316	1
3	JOINT GASKET	PTFE	1
4	CAP	SS316	1
5	BODY	SS316/CF8M	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	STEM PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	STEM WASHER	SS304	1
11	STEM NUT	SS304	1
12	HANDLE COVER	PLASTIC	1
13	HANDLE	SS304	1



Model: V2 Specifications	
Two Piece Full Port 316 Stainless Steel Ball Valve	
Maximum Operating Pressure: 1/4" to 2" 1000 PSIG @ 100°F WOG* 2 1/2" to 3" 800 PSIG @ 100°F WOG*	
Temperature Range: -60 to 450°F*	
End Connections: NPT Threaded with Padlocking & Panel Mount Device	

Dimensions (mm)										
SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
d	11.6	12.7	15	20	25.4	32	38	50.8	65	76
L	55	55	63.5	75	88	103	110	124	167	192
H	48	48	50	57	69	73	83	92	136	149
W	103	103	103	125	145	145	190	190	250	250

Main Parts and Materials			
No	Part Name	Material	Qty
1	SEAT	PTFE	2
2	BALL	SS316	1
3	JOINT GASKET	PTFE	1
4	CAP	SS316	1
5	BODY	SS316/CF8M	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	STEM PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	STEM WASHER	SS304	1
11	STEM NUT	SS304	1
12	HANDLE COVER	PLASTIC	1
13	HANDLE	SS304	1

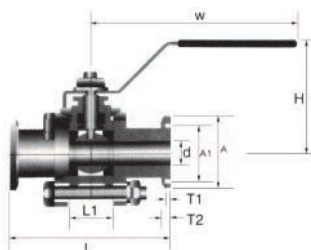


Model: V3 Specifications	
Maximum Operating Pressure: 1/2" to 2" 1000 PSI @ 100°F WOG* 2 1/2" to 3" 800 PSI @ 100°F WOG*	
Temperature Range: -60 to 450°F*	
Full Port	
End Connections: FNPT	
Mounting Options: Padlocking device and actuator mounting bracket	

Dimensions (mm)											
SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d	mm	12.5	12.5	15	20	25	30	38	50	64	98
	in	0.49	0.49	0.59	0.79	0.98	1.18	1.5	1.97	2.52	3.86
H	mm	57	57	68	70	80	84	93	100	142	172
	in	2.24	2.24	2.68	2.76	3.15	3.31	3.66	3.94	5.59	6.77
W	mm	96	96	124	124	142	142	202	202	250	300
	in	3.78	3.78	4.88	4.88	5.99	5.99	7.95	7.95	9.84	11.81
L	mm	68	68	72	83	90	112	120	147	174	216
	in	2.56	2.56	2.84	3.35	3.62	4.33	4.48	5.59	6.85	8.5

Main Parts and Materials			
No	Part Name	Material	Qty
1	SEAT	PTFE	2
2	BALL	SS316	1
3	JOINT GASKET	PTFE	1
4	CAP	SS316	1
5	BODY, BODY CONNECTOR	SS316/CF8M	1, 2
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	STEM PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	STEM WASHER	SS304	1
11	STEM NUT	SS304	1
12	HANDLE COVER	PLASTIC	1
13	HANDLE	SS304	1
14	BODY CONNECTOR BOLT	SS304	4
15	BODY CONNECTOR NUT & WASHER	SS304	4

STC Valve Technical Data



Model: V3C Specifications

Sanitary Stainless Steel Ball Valve: These valves are made with precision machined Teflon seat for use in Sanitary applications. They are three piece design and have four bolts that permit quick and easy access to service the valve without disrupting the pipe line connections.

Maximum Operating Pressure: 1/2" to 2" 1000 PSI @ 100°F WOG*
2 1/2" to 4" 800 PSI @ 100°F WOG*

Temperature Range: -60 to 450°F*

Full Port

End Connections: Clamp End

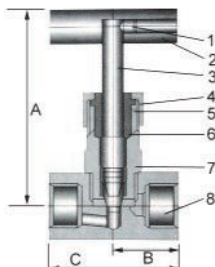
Mounting Options: Padlocking device and actuator mounting bracket

Dimensions (mm)

Size	Port (d)	L	A	A1	H	T1	T2	W
1/2"	9.6	75	25	20.24	64	--	3.63	125
3/4"	15.9	90	25	20.24	67	--	3.63	125
1"	22.2	100	50.4	43.6	83	2.85	4.75	140
1 1/4"	28.5	110	50.4	43.6	89	2.85	4.75	140
1 1/2"	34.9	125	50.4	43.6	100	2.85	--	200
2"	47.5	150	63.9	56.3	108	2.85	--	200
2 1/2"	60.2	190	77.4	70.6	150	2.85	--	250
3"	72.9	220	90	83.3	161	2.85	--	250
4"	97.4	270	118.9	110.3	180	2.85	--	250

Main Parts and Materials

No	Part Name	Material	Qty
1	SEAT	PTFE	2
2	BALL	SS316	1
3	JOINT GASKET	PTFE	1
4	CAP	SS316	1
5	BODY, BODY CONNECTOR	SS316/CF8M	1, 2
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	STEM PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	STEM WASHER	SS304	1
11	STEM NUT	SS304	1
12	HANDLE COVER	PLASTIC	1
13	HANDLE	SS304	1
14	CONNECTOR BOLT	SS304	4
15	CONNECTOR NUT & WASHER	SS304	4



Model: VN01 Specifications

End Connections: NPT threaded ASME b1.20.1

DIN 2999 & BS21; ISO 228/1 & ISO 7/1

Max. Operating Pressure: 6000 PSIG @ 100 °F*

Operating Temperature Range: -60 to 450°F*

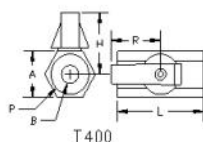
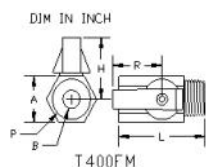
Fire safe design

Dimensions (mm)

Size	1/4"	3/8"	1/2"	3/4"	1"
A	75	75	87	90	103
B	25	25	30	32.5	40
C	50	50	60	65	80
Cv	0.43	0.74	1.36	2.64	3.6
Panel Hole	20	20		22	24

Main Parts and Materials

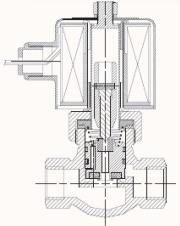
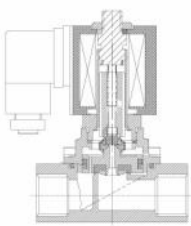
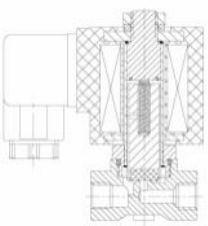
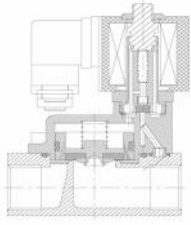
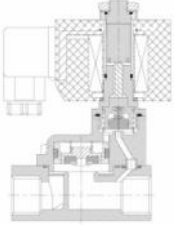
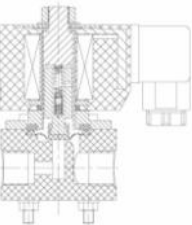
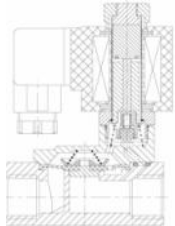
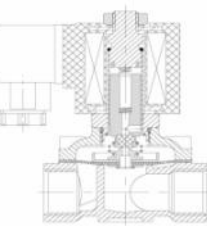
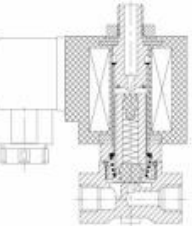
No	Part Name	Material
1	SET SCREW	SS304
2	HANDLE	SS410
3	STEM	SS316
4	GLAND NUT	SS304
5	GLAND	SS304
6	PACKING	TEFLON
7	BONNET	SS316/CF8M
8	BODY	SS316/CF8M



Valve Specifications

Valve Type	T400	T400FM
Operating Pressure	0-450 PSI @ 75 °F	
Operating Temperature	0 TO 200 Deg. F	
Ball	Chrome Plated Brass	
Body Materials	Chrome or Nickel Plated Brass	
Seal Materials	PTFE	
Handel	Metal or Plastic	
Service	Air, Liquid	

	A	B (BORE)	H	L	P (NPT)	R
T400 1/4	0.80	0.31	1.00	1.58	1/4	0.93
T400 3/8	0.80	0.31	1.00	1.58	3/8	0.93
T400 1/2	0.96	0.39	1.10	1.78	1/2	0.93
T400FM 1/4	0.80	0.31	1.00	1.58	1/4	0.93
T400FM 3/8	0.80	0.31	1.00	1.58	3/8	0.93
T400FM 1/2	0.96	0.39	1.10	1.78	1/2	0.93

2L: Brass 2 Way NC Direct Lift Piston		2LS: Stainless Steel 2 Way NC Direct Lift Piston		2H: Stainless 2P: Plastic 2V: Aluminum 2S/25-050: SS 2W/25-040: Brass 2 Way NC Direct Acting	
2MS: Stainless Steel 2 Way NC Pilot Piston		2MSO: Stainless Steel 2 Way NO Pilot Piston		2T: Teflon 2 Way NC Direct Lift Diaphragm	
2V130: Brass 2 Way NC Pilot Diaphragm		2W/2WO160-500: Brass 2S/2SO160-500: SS 2 Way NC Direct Lift Diaphragm		3W: Brass 3 Way NC Direct Acting	

Valve Components	Materials	Seals Options:	Temperature Range/Compatibility
Body	Options: Aluminum, Brass, Plastic, Stainless Steel, Teflon	NBR	-10~90°C, Oil-resistant and petroleum-resistant, not good for oxygen
Armature Tube	Stainless Steel 304	EPDM	-30~130°C, Withstand ozone, resistant to corrosive chemical materials, not suitable for oil
Plunger	Stainless Steel 430F	PTFE	-20~200°C, Resistant to most chemicals, except compound with oxygen
Head	Stainless Steel 430F	VITON	-10~150°C, Resistant to most chemicals
Springs	Stainless Steel 304		
Shading Rings	Brass (Option: Silver)		



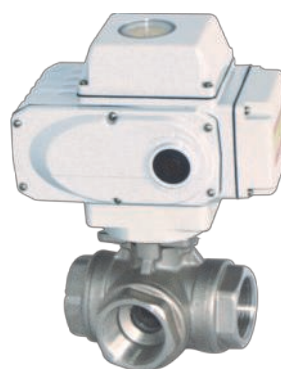
Precision Engineered

Fine Quality



Excellent Prices

Advanced Design



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Air Actuated Ball Valve Numbering System



Ordering Part No. =
(eg. **KS1/2- - - S2NP**)

Model	Port Size (in)	Connection	Valve Type	Valve Material	Options
KS	1/2	-	-	-	S2NP
KS = Single Acting (Spring Return) KD = Double Acting (Air Return)	1/2	Blank = NPT C = Tri-Clamp F = Flange R = BSPT W = Butt Weld	Blank = 2 Way, Normally Closed O = 2 Way, Normally Open L = 3 Way (L Port) T = 3 Way (T Port)	Blank = 316 Stainless Steel B = Brass	S = Namur solenoid valve Coil Voltage: 1 = 12VDC 2 = 24VDC 2A = 24VAC 3 = 110 VAC 50/60HZ 4 = 220 VAC 50/60HZ Coil Electrical: D = DIN G = 2 Lead Wires N = 1/2 NPT for Conduit E = Explosion Proof Coil P = Proximity Switch, 2 SPDT (APL-210N) X = Proximity Switch, 2 SPDT, Exp. Proof (APL-410)
	3/4				
	1				
	1 1/4				
	1 1/2				
	2				
	2 1/2				
	3				
4					

Air Actuated Ball Valve List Price



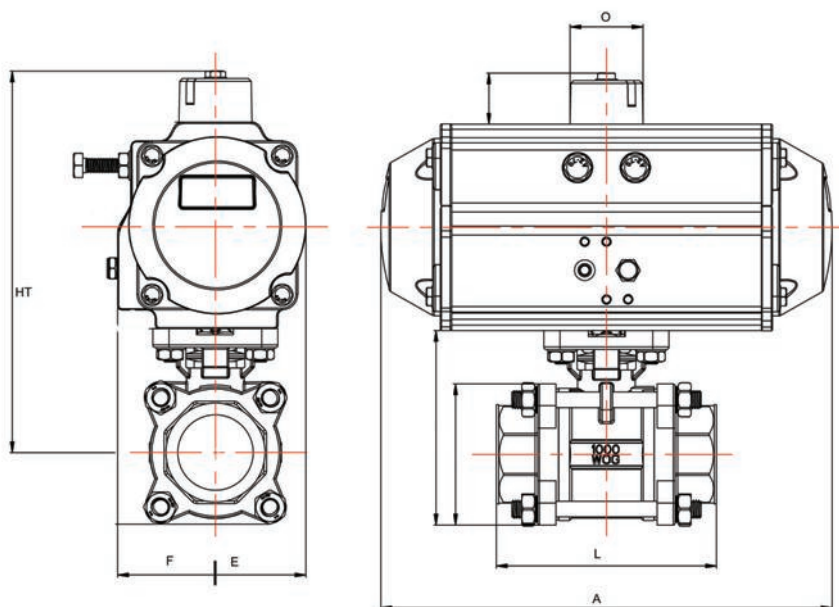
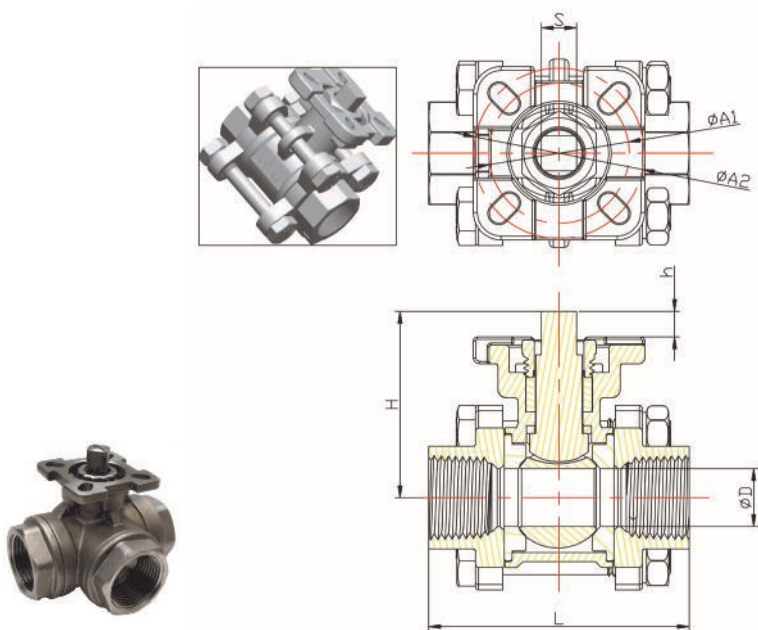
Air Actuated Valve List Price							
ROTARY PNEUMATIC BALL VALVE		Port Size NPT	Air Actuated Single Acting		Air Actuated Double Acting		
			Model	Price	Model	Price	
	2/2 3 Piece Full Port Ball Valve 316 SS	1/4"	KS-1/4	\$197.40	KD-1/4	\$171.15	Fluid Temperature: w/ PTFE seal, -10°C to 180°C VACUUM TO 1000 PSI Service: Air, Liquid, Steam, Vacuum
		3/8"	KS-3/8	\$197.40	KD-3/8	\$171.15	
		1/2"	KS-1/2	\$197.40	KD-1/2	\$171.15	
		3/4"	KS-3/4	\$207.90	KD-3/4	\$176.40	
		1"	KS-1	\$239.40	KD-1	\$218.40	
		1 1/4"	KS-1 1/4	\$312.90	KD-1 1/4	\$249.90	
		1 1/2"	KS-1 1/2	\$417.90	KD-1 1/2	\$323.40	
		2"	KS-2	\$553.35	KD-2	\$386.40	
		3"	KS-3	\$1047.90	KD-3	\$942.90	
		4"	KS-4	\$2403.45	KD-4	\$2225.90	

Namus Solenoid Valves for Controlling Air Actuated Valves Part No. = Model - Voltage Option - Electrical Options						
		Model	Voltage Options	Electrical Options	Non-Exp. Proof	Exp. Proof
 Non-Exp. Proof	3 Way Namur Single Solenoid Valve	3V310B-1/4	1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	D = DIN G = Grommet (12" Lead Wire) E = Explosion Proof	\$39.50	\$178.78
	3 Way Namur Double Solenoid Valve	3V320B-1/4			\$53.50	\$263.78
 Exp. Proof	4 Way Namur Single Solenoid Valve	4V310B-1/4			\$39.50	\$178.78
	4 Way Namur Double Solenoid Valve	4V320B-1/4			\$53.50	\$263.78
	Flow Control for Namur Valve	ASC N1/4B			\$10.38	

STC Proximity Switches/Position Indicators						
	Part No.	List Price	Voltage	Current	Cable Entry	
	APL-210N	\$73.82	Max. 250VAC or DC	5A @ 8 to14VDC 4A @ 30VDC 0.4A @ 125VDC 0.2A @ 250VDC 5A @ 125VAC, 3A @ 250VAC	2-1/2 NPT	Position Indicator for Rotary Actuator, IP 67 ENCLOSURE 2 SPDT Mechanical Limit Switches, Visual OPEN/CLOSED Indicator UL/CSA
	APL-310N	\$129.15		0.6A 125VDC, 0.3A 250V DC 16A 125 to 250VAC	2-1/2 NPT	Position Indicator for Rotary Actuator, 2 SPDT Mechanical Limit Switches, Visual OPEN/CLOSED Indicator UL/CSA
	APL-410	\$258.30		0.6A 125VDC, 0.3A 250VDC 15A 125 to 250 VAC	2-3/4 NPT	Explosion Proof Position Indicator for Rotary Actuator, Exd II BT6, IP 67 ENCLOSURE, 2 SPDT Mechanical Limit Switches, Visual OPEN/CLOSED Indicator UL/CAS

Actuated Valve Body Specifications

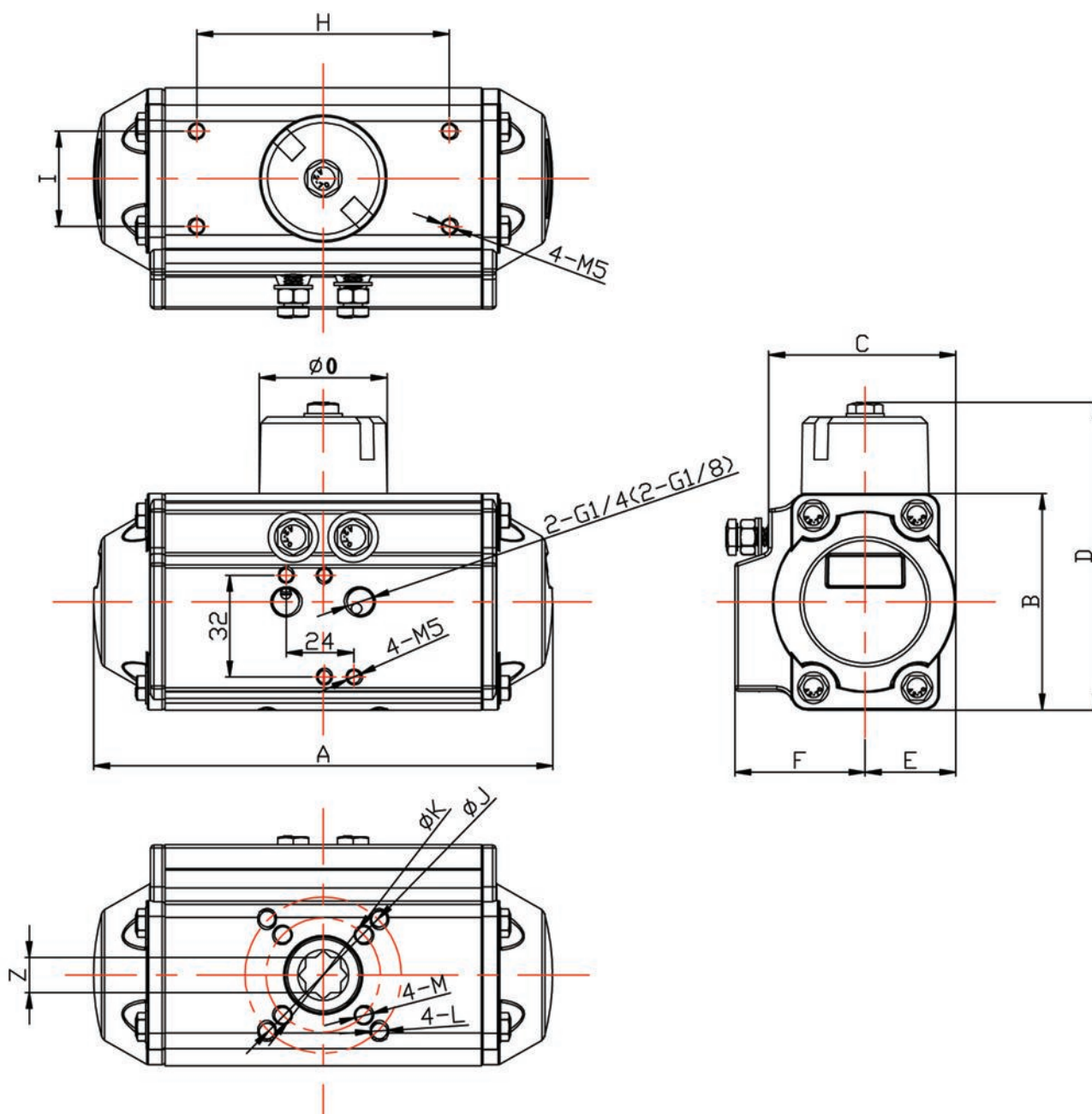
Valve Body & Ball	316 Stainless Steel/CF8M
Seat Seals & Packing	PTFE
Service Medium	Air , Gas, Liquid, Steam, Water,
Operating Pressure	3/8" to 2": 1000 PSI @ 100°F WOG 2 1/2" to 4" : 800 PSI @ 100°F WOG
Media Temperature	- 60 to 450 °F
Ambient Temperature	-4 to 176 °F (-20 TO 80 °C)
Maximum Viscosity	600 mm2/s
Installation Orientation	Any Orientation
Controlling Medium	Air, Inert Gas
Controlling Pressure Range	45-120 PSI
Mounting standard	DIN 3203-M3, ISO 5211 MOUNTING PAD, ISO5211 PLATFORM
Port	2 Way: Full Port 3 Way: Reduced Port



Actuated Valve Body Dimensions (mm)

2 WAY	3 WAY	SIZE						Actuator Mounting: ISO05211		Actuator Bore Size (MM)							
Part No.	Part No.	NPT	D	L	H	h	S	A1/(MM)	A2/(MM)	Single Acting	A	F+E	HT	Double Acting	A	F+E	HT
V3-1/2-A	V-1/2-L-A	1/2"	15	75	38	9	9	F03/36	F04/42	63	190	80	103	32	110	45.5	103
V3-3/4-A	3V-3/4-L-A	3/4"	20	80	47	9	9	F03/36	F04/42	63	190	80	112	50	143	71	139
V3-1-A	3V-1-L-A	1"	25	90	57.2	11	11	F04/42	F05/50	63	190	80	122.2	50	143	71	149.2
V3-1 1/4-A	3V-1 1/4-L-A	1 1/4"	32	110	62.5	11	11	F04/42	F05/50	75	207	91	182	63	190	80	170.5
V3-1 1/2-A	3V-1 1/2-L-A	1 1/2"	38	120	77.5	14	14	F05/50	F07/70	88	213	98.5	206.5	63	190	80	185.5
V3-2-A	3V-2-L-A	2"	50	140	86.5	14	14	F05/50	F07/70	88	213	98.5	215.5	75	207	91	206
V3-2 1/2-A	3V-2 1/2-L-A	2 1/2"	65	162	108	17	17	F07/70	F10/102	100	267	121	261	88	213	98.5	237
V3- 3-A	3V- 3-L-A	3"	80	184	115	17	17	F07/70	F10/102	125	340	137.5	290	100	267	121	268
V3-4-A	3V-4-L-A	4"	100	228	141	22	22	F07/70	F10/102	145	414	151	332.5	125	340	137.5	316

Rotary Air Actuator Dimensions & Specifications

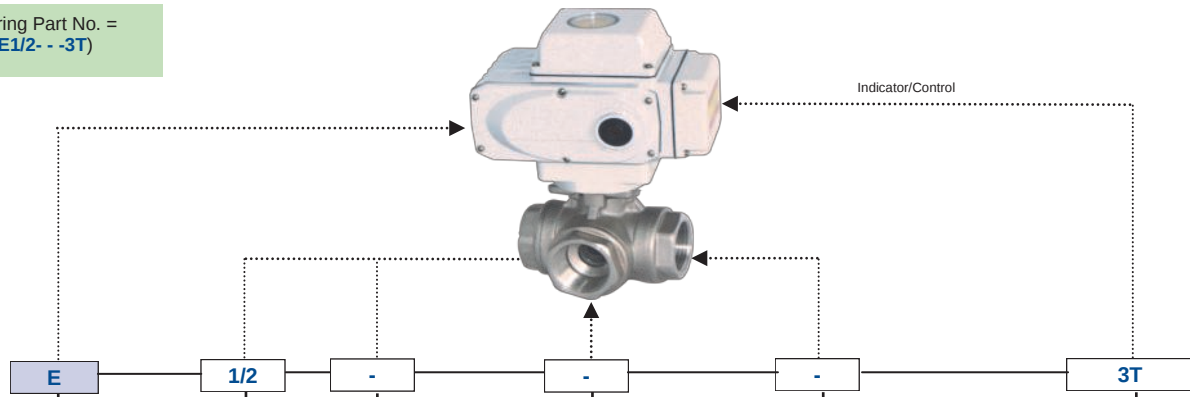


Model Double Acting	Model Single Acting	Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	A120	A180	AIR CONNECTION
AT032D	AT032S	32	110	45	45	65	22.5	23	12	50	25		F03/36		M5X5	9				G1/8
AT050D	AT050S	50-52	143	72	55	92	30	41	14	80	30	F05/50	F03/36	M6X8	M5X8	11	40	158	200	G1/4
AT063D	AT063S	63	190	88	69	108	35	45	18	90	30	F07/70	F05/50	M8X13	M6X10	14	40	184	233	G1/4
AT075D	AT075S	75	207	99.5	100.5	119.5	38.5	52.5	20.5	80	30	F07/70	F05/50	M8X10	M6X8	14	40	203	243	G1/4
AT088D	AT088S	85-88	213	109	88	129	46	52.5	21	80	30	F07/70	F05/50	M8X13	M6X10	17	40	221	280	G1/4
AT092D	AT092S	92	258	117	98.5	137	50	61	21	80	30	F07/70	F05/50	M8X12	M6X10	17	40	280	374	G1/4
AT0100D	AT0100S	100-105	267	133	109	153	57	64	26	80	30	F10/102	F07/70	M10X13	M8X10	22	40	304	388	G1/4
AT125D	AT125S	125	340	155	120.5	175	67.5	70	27.5	80	30	F10/102	F07/70	M10X16	M8X13	22	65	365	470	G1/4
AT145D	AT145S	140-145	414	171.5	132	191.5	75	76	32	80	30	F12/125	F10/102	M12X20	M10X15	27	65	442	568	G1/4

NOTE: A120 and A180 represent the acting length of the 120° rotation travel and 180° rotation travel, respectively.

Electric Actuator List Price & Specifications

Ordering Part No. =
(eg. **E1/2--3T**)



Model	Port Size (in)	Connection	Valve Type	Valve Material	Options
Electric Actuated Valves	1/2	Blank = NPT C = Tri-Clamp F = Flange R = BSPT W = Butt Weld	Blank = 2 Way, Normally Closed O = 2 Way, Normally Open L = 3 Way (L Port) T = 3 Way (T Port)	Blank = 316 Stainless Steel	Voltage Option (V): 1 = 12VDC 2 = 24VDC 2A = 24VAC 3 = 110 VAC 50/60HZ 4 = 220 VAC 50/60HZ Control Signal: Blank = Light Indicator S = Contact signal R = 1K, 5K potentiometer T = 4-20 mA (for Proportional Control)
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	1				
	1 1/4				
	1 1/2				
	2				
	2 1/2				
	3				
	4				

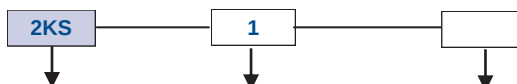
Valve Body	2 Way Valve with Actuator with ON/OFF Indicator		2 Way Valve with Actuator with Contact Signal		2 Way Valve with Actuator with Proportional Control		3 Way (L Ball) with Actuator with ON/OFF Indicator		3 Way (T Ball) with Actuator with ON/OFF Indicator	
Port Size (NPT)	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
1/4	E 1/4-V	\$480.30	E 1/4-V-S	\$523.15	E 1/4-V-T	\$994.20	E 1/4-L-V	\$493.55	E 1/4-T-V	\$493.55
3/8	E 3/8-V	\$480.30	E 3/8-V-S	\$523.15	E 3/8-V-T	\$994.20	E 3/8-L-V	\$493.55	E 3/8-T-V	\$493.55
1/2	E 1/2-V	\$480.30	E 1/2-V-S	\$523.15	E 1/2-V-T	\$994.20	E 1/2-L-V	\$493.55	E 1/2-T-V	\$493.55
3/4	E 3/4-V	\$490.00	E 3/4-V-S	\$532.85	E 3/4-V-T	\$1,003.90	E 3/4-L-V	\$512.05	E 3/4-T-V	\$512.05
1	E 1-V	\$516.50	E 1-V-S	\$559.35	E 1-V-T	\$1,030.40	E 1-L-V	\$546.10	E 1-T-V	\$546.10
1 1/4	E 1 1/4-V	\$547.00	E 1 1/4-V-S	\$589.85	E 1 1/4-V-T	\$1,060.90	E 1 1/4-L-V	\$623.60	E 1 1/4-T-V	\$623.60
1 1/2	E 1 1/2-V	\$627.85	E 1 1/2-V-S	\$670.70	E 1 1/2-V-T	\$1,141.75	E 1 1/2-L-V	\$754.35	E 1 1/2-T-V	\$754.35
2	E 2-V	\$842.25	E 2-V-S	\$885.10	E 2-V-T	\$1,356.15	E 2-L-V	\$983.40	E 2-T-V	\$983.40
2 1/2	E 2 1/2-V	\$1,060.40	E 2 1/2-V-S	\$1,103.25	E 2 1/2-V-T	\$1,574.30				
3	E 3-V	\$1,542.15	E 3-V-S	\$1,584.95	E 3-V-T	\$2,056.05				
4	E 4-V	\$2,059.65	E 4-V-S	\$2,102.50	E 4-V-T	\$2,573.55				

Electric Actuator	Part No.	List Price	Torque	Cycle Time	Weight	Special function	Control Signal	Ball Valve Size, NPT Diameter (DN)	Butterfly Valve Size Diameter (DN)	Rotation
	E-05	\$428.25	50N * M	20S	2.6Kg	On-off Light	Light Indicator	1/2" to 1 1/2" (15-40)	1" to 2 1/2" (32-65)	90°
	E-10	\$599.55	100N * M	30/60S	3.7Kg			2" to 2 1/2" (50-65)	2" to 4" (50-125)	
	E-20	\$813.70	200N * M	30/60S	6.7Kg			2 1/2" to 3" (65-80)	6" to 8" (150-200)	
	E-40	\$856.50	400N * M	30/60S	7.2Kg			3" to 4" (80-100)	8" to 10" (200-250)	
	E-60	\$1070.65	600N * M	45S	7.3Kg			4" (100-125)	10" to 12" (250-300)	
	E-100	\$1370.40	1000N * M	50S	7.3Kg			6" (125-150)	12" to 16" (300-400)	
	E-200	\$1541.75	2000N * M	100S	11.2Kg	Passive Contact	S=Contact Signal	6" to 12" (150-300)	18" to 28" (450-700)	90°
	E-05S	\$471.10	50N * M	20S	2.6Kg			1/2" to 1 1/2" (15-40)	1" to 2 1/2" (32-65)	
	E-10S	\$642.40	100N * M	30/60S	3.7Kg			2" to 2 1/2" (50-65)	2" to 4" (50-125)	
	E-20S	\$856.50	200N * M	30/60S	6.7Kg			2 1/2" to 3" (65-80)	6" to 8" (150-200)	
	E-40S	\$899.35	400N * M	30/60S	7.2Kg			3" to 4" (80-100)	8" to 10" (200-250)	
	E-60S	\$1113.50	600N * M	45S	7.3Kg			4" (100-125)	10" to 12" (250-300)	
	E-100S	\$1413.25	1000N * M	50S	7.3Kg	Opening Signal	R=potentiometer (1-5K)	6" (125-150)	12" to 16" (300-400)	90°
	E-200S	\$1584.50	2000N * M	100S	11.2Kg			6" to 12" (150-300)	18" to 28" (450-700)	
	E-05R	\$556.75	50N * M	20S	2.6Kg			1/2" to 1 1/2" (15-40)	1" to 2 1/2" (32-65)	
	E-10R	\$728.05	100N * M	30/60S	3.7Kg			2" to 2 1/2" (50-65)	2" to 4" (50-125)	
	E-20R	\$942.15	200N * M	30/60S	6.7Kg			2 1/2" to 3" (65-80)	6" to 8" (150-200)	
	E-40R	\$985.00	400N * M	30/60S	7.2Kg			3" to 4" (80-100)	8" to 10" (200-250)	
	E-60R	\$1199.10	600N * M	45S	7.3Kg	Proportional Control	T=4-20mA	4" (100-125)	10" to 12" (250-300)	90°
	E-100R	\$1498.90	1000N * M	50S	7.3Kg			6" (125-150)	12" to 16" (300-400)	
	E-200R	\$1670.20	2000N * M	100S	11.2Kg			6" to 12" (150-300)	18" to 28" (450-700)	
	E-05T	\$942.15	50N * M	20S	2.6Kg			1/2" to 1 1/2" (15-40)	1" to 2 1/2" (32-65)	
	E-10T	\$1113.45	100N * M	30/60S	3.7Kg			2" to 2 1/2" (50-65)	2" to 4" (50-125)	
	E-20T	\$1327.60	200N * M	30/60S	6.7Kg			2 1/2" to 3" (65-80)	6" to 8" (150-200)	
	E-40T	\$1370.40	400N * M	30/60S	7.2Kg			3" to 4" (80-100)	8" to 10" (200-250)	
	E-60T	\$1584.50	600N * M	45S	7.3Kg			4" (100-125)	10" to 12" (250-300)	
	E-100T	\$1884.35	1000N * M	50S	7.3Kg			6" (125-150)	12" to 16" (300-400)	
	E-200T	\$2098.50	2000N * M	100S	11.2Kg			6" to 12" (150-300)	18" to 28" (450-700)	

Air Actuated Angle Seat Valve List Price & Specifications



STC Air Actuated Angle Seat Valve Numbering System



	AIR ACTUATED VALVE	Model	Port Size (NPT)	Options
	Single Acting (Spring Return)	2KS	3/8" 1/2" 3/4" 1" 1 1/4" 1 1/2" 2"	Blank = NPT C = Tri-Clamp F = Flange R = BSPT W = Butt Weld
	Double Acting (Fail Closed)	2KD		

316 Stainless Steel Air Actuated Angle Seat Valve List Price

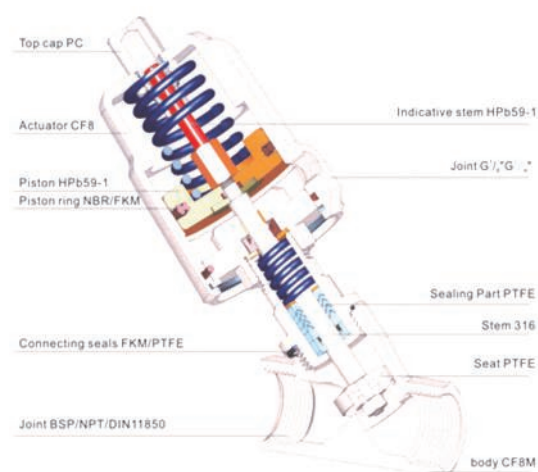
	Port Size NPT	Single Acting (Normally Closed)		Double Acting (Fail Closed)	
		Model	Price	Model	Price
	3/8	2KS-3/8	\$161.65	2KD-3/8	\$161.65
	1/2	2KS-1/2	\$175.14	2KD-1/2	\$175.14
	3/4	2KS-3/4	\$179.60	2KD-3/4	\$179.60
	1	2KS-1	\$220.92	2KD-1	\$220.92
	1 1/4	2KS-1 1/4	\$314.32	2KD-1 1/4	\$314.32
	1 1/2	2KS-1 1/2	\$332.22	2KD-1 1/2	\$332.22
	2	2KS-2	\$458.01	2KD-2	\$458.01
	2 1/2	2KS-2	\$643.95	2KD-2	\$643.95

2KS & 2KD Specifications & Features

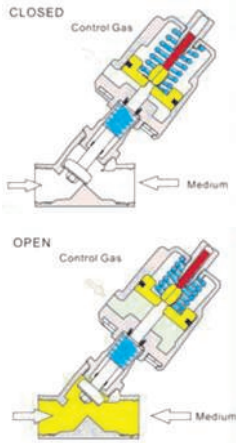
Operating Pressure	29" Hg Vacuum to 240 PSI (0-1.6MPa)
Temperature Range	-5 to 356°F (-20 to 180°C)
Ambient Temperature	-5 to 40°F (-20 to 60 °C)
Maximum Viscosity	600 mm ² /s (600 centistokes)
Installation Orientation	Any Orientation
Pilot Controlling Medium	Air, Inert Gas
Pilot Pressure Range	65-120 PSI
Wetted Surfaces	300 Series Stainless Steel and PTFE
Service Medium	Air, Gas, Liquid, Oil, Steam, Water, Vacuum

Materials of Construction

Valve Body	316 Stainless Steel
Valve Stem	316 Stainless Steel
Seat Seals	PTFE
Stem Seals	PTFE (Spring loaded self adjusting for long service life)
Actuator Body	Stainless Steel CF8 (Designed for harsh applications)
Piston	HPb59-1
Piston Ring V-Seals	NBR/FKM
Spring	Stainless Steel
Indicative stem	HPb59-1
Top Cap	Polycarbonate

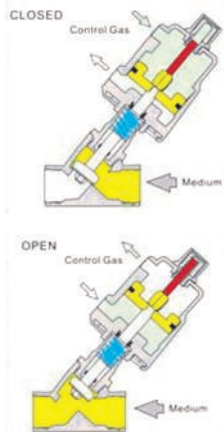


2KS Series Single Acting Stainless Steel Air Actuated Angle Seat Valve Specifications



Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator (mm)	Cv	Bi-directional Flow		Temperature	Pilot Control Pressure
						Inlet Above Seat Pressure @ 180 °C	Inlet Below Seat Pressure @ 180 °C		
2KS-3/8	3/8"	DN10	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-1/2	1/2"	DN15	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-3/4	3/4"	DN20	18	50	9.5	0-240 PSI (0-1.6MPa)	0-180 PSI (0-1.2MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-1	1"	DN25	24	63	18.1	0-240 PSI (0-1.6MPa)	0-150 PSI (0-1.0MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-1 1/4	1 1/4"	DN32	31	63	23.1	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-1 1/2	1 1/2"	DN40	35	80	32.9	0-240 PSI (0-1.6MPa)	0-150 PSI (0-1.0MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-2	2"	DN50	45	80	52.8	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KS-2 1/2	2 1/2"	DN65	65	125	76	0-240 PSI (0-1.6MPa)	0-90 PSI (0-0.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI

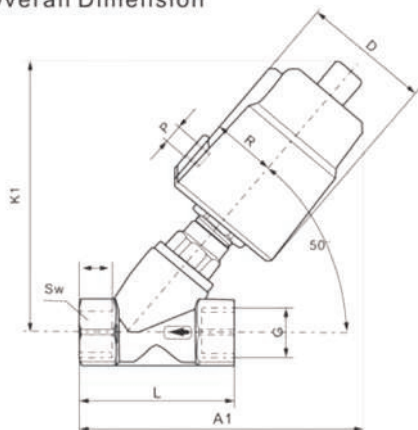
2KD Series Double Acting Stainless Steel Air Actuated Angle Seat Valve Specifications



Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator Diameter (mm)	Cv	Bi-directional Flow		Media Temperature	Pilot Control Pressure
						Inlet Above Seat Pressure @ 180 °C	Inlet Below Seat Pressure @ 180 °C		
2KD-3/8	3/8"	DN10	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1/2	1/2"	DN15	13	50	4.7	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-3/4	3/4"	DN20	18	50	9.5	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KDS-1	1"	DN25	24	63	18.1	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1 1/4	1 1/4"	DN32	31	63	23.1	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-1 1/2	1 1/2"	DN40	35	80	32.9	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-2	2"	DN50	45	80	52.8	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI
2KD-2 1/2	2 1/2"	DN65	65	125	76	0-240 PSI (0-1.6MPa)	0-240 PSI (0-1.6MPa)	-5 to 356°F (-20 to 180°C)	65-120 PSI

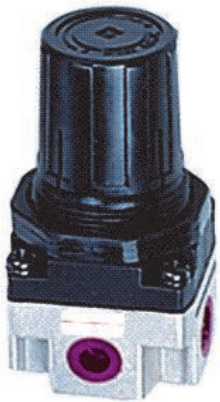
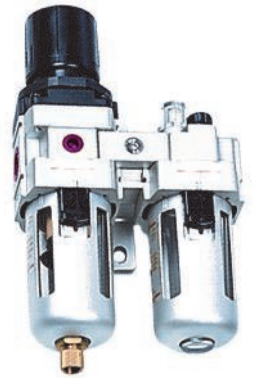
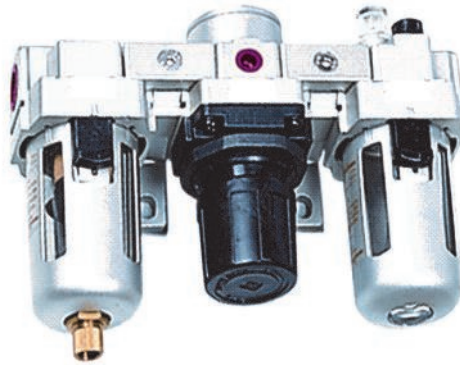
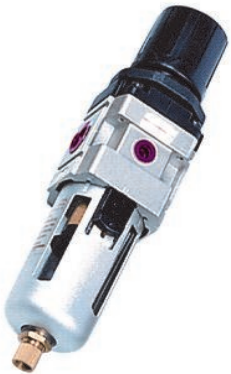
2KS/KD Series Stainless Steel Air Actuated Angle Seat Valve Dimensions

★ Overall Dimension



Single Acting	Double Acting	2KS/2KD Series Stainless Steel Air Actuated Angle Plunger Valve Dimensions (unit=mm)												
Part No.	Part No.	Port (NPT)	Standard	Orifice (mm)	Actuator	Cv	A	R	P	K1	A1	L	T	SW
2KS-3/8	2KD-3/8	3/8"	DN10	13	50	4.7	60	35	1/8	126	133	68	12	26.6
2KS-1/2	2KD-1/2	1/2"	DN15	13	50	4.7	60	35	1/8	126	133	68	15	26.6
2KS-3/4	2KD-3/4	3/4"	DN20	18	50	9.5	60	35	1/8	131	137	75	16	32
2KS-1	2KD-1	1"	DN25	24	63	18.1	77	43	1/8	165	174	90	17	39.5
2KS-1 1/4	2KD-1 1/4	1 1/4"	DN32	31	63	23.1	77	43	1/8	175	188	116	21	50
2KS-1 1/2	2KD-1 1/2	1 1/2"	DN40	35	80	32.9	98	52	1/4	187	204	116	21	55.3
2KS-2	2KD-2	2"	DN50	45	80	52.8	98	52	1/4	195	218	138	22	70

Air Filter-Regulator-Lubricators



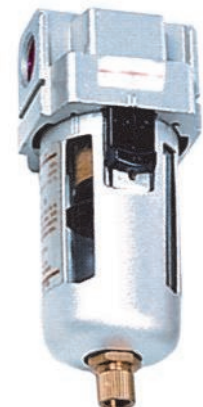
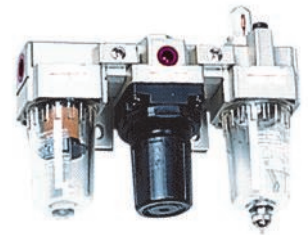
Precision Engineered

Fine Quality



Advanced Design

Excellent Prices



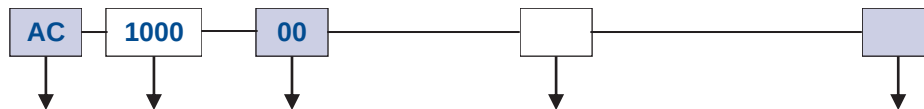
connects fluid power to industrial automation™

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Filter Regulator Lubricator Numbering System

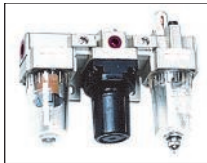
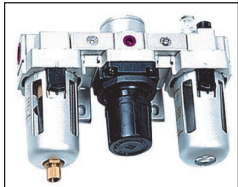
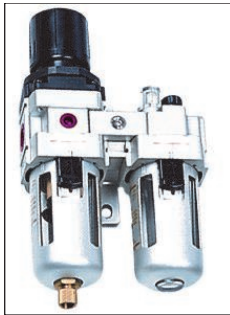
Ordering Part No. =
(eg. AC 1000-00-D)



Model	Body Size	Port Size	Standard Features	Options
AC = Filter-Regulator-Lubricator AF = Filter AL = Lubricator AR = Regulator AW = Stacking Filter-Regulator VHS = Relieving Shut-off/Lockout Valve	1000 2000 3000 4000 5000	00 = 10-32 (M5) 01 = 1/8 NPT 02 = 1/4 NPT 03 = 3/8 NPT 04 = 1/2 NPT 06 = 3/4 NPT 10 = 1 NPT	Blank = Standard Features: Polycarbonate Bowl (3000-5000 Series with Steel Bowl Shield) 125 PSI Regulating Range Semi-auto Differential Drain 25 Micron Sintered Brass Filter	D = Automatic Drain DC = Drain Cock (with manual shut off valve) M = Metal Bowl (with sight glass) P30 = 30PSI Regulating Range P60 = 60 PSI Regulating Range F5 = 5 Micron Filter N = Without B = Bracket G = Pressure Gauge
AC = Stacking Filter-Regulator-Lubricator	1010 2010 3010 4010 5010			

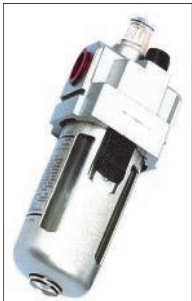
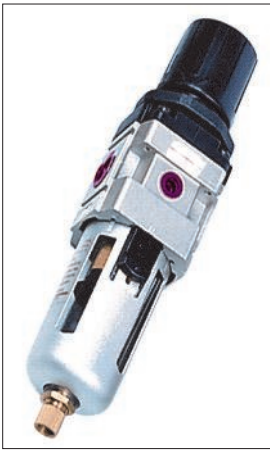
Air Filter-Regulator-Lubricator List Price



	Part No.	Description (*includes Bracket & Gauge)	List Price
 Includes Bracket & Gauge	AC 1000-M5	M5/10-32 Filter- Regulator- Lubricator* (3 SCFM)	\$49.17*
	AC 2000-01	1/8" NPT Filter- Regulator- Lubricator* (18 SCFM)	\$51.62*
	AC 2000-01D	1/8" NPT Filter- Regulator- Lubricator* with Auto Drain (18 SCFM)	\$69.28*
	AC 2000-01M	1/8" NPT Filter- Regulator- Lubricator* Metal Bowl (18 SCFM)	\$60.86*
	AC 2000-01DM	1/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM)	\$71.40*
	AC 2000-02	1/4" NPT Filter- Regulator- Lubricator* (18 SCFM)	\$51.62*
	AC 2000-02D	1/4" NPT Filter- Regulator- Lubricator* with Auto Drain (18 SCFM)	\$69.28*
	AC 2000-02M	1/4" NPT Filter- Regulator- Lubricator* Metal Bowl (18 SCFM)	\$60.86*
	AC 2000-02DM	1/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM)	\$78.49*
 Includes Bracket & Gauge	AC 3000-02	1/4" NPT Filter- Regulator- Lubricator* (70 SCFM)	\$79.38*
	AC 3000-02D	1/4" NPT Filter- Regulator- Lubricator* with Auto Drain (70 SCFM)	\$102.48*
	AC 3000-02M	1/4" NPT Filter- Regulator- Lubricator* with Metal Bowl (70 SCFM)	\$93.23*
	AC 3000-02DM	1/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (70 SCFM)	\$116.33*
	AC 3000-03	3/8" NPT Filter- Regulator- Lubricator* (70 SCFM)	\$79.38*
	AC 3000-03D	3/8" NPT Filter- Regulator- Lubricator* with Auto Drain (70 SCFM)	\$102.48*
	AC 3000-03M	3/8" NPT Filter- Regulator- Lubricator* with Metal Bowl (70 SCFM)	\$93.23*
	AC 3000-03DM	3/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (70 SCFM)	\$116.32*
	AC 4000-03	3/8" NPT Filter- Regulator- Lubricator* (140 SCFM)	\$107.07*
	AC 4000-03D	3/8" NPT Filter- Regulator- Lubricator* with Auto Drain (140 SCFM)	\$135.86*
	AC 4000-03M	3/8" NPT Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM)	\$134.79*
	AC 4000-03DM	3/8" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM)	\$150.97*
	AC 4000-04	1/2" NPT Filter- Regulator- Lubricator* (140 SCFM)	\$107.07*
	AC 4000-04D	1/2" NPT Filter- Regulator- Lubricator* with Auto Drain (140 SCFM)	\$135.86*
	AC 4000-04M	1/2" NPT Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM)	\$134.79*
	AC 4000-04DM	1/2" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM)	\$150.97*
	AC 4000-06	3/4" NPT Filter- Regulator- Lubricator* (160 SCFM)	\$117.11*
	AC 4000-06D	3/4" NPT Filter- Regulator- Lubricator* with Auto Drain (160 SCFM)	\$145.90*
	AC 4000-06M	3/4" NPT Filter- Regulator- Lubricator* with Metal Bowl (160 SCFM)	\$144.83*
	AC 4000-06DM	3/4" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (160 SCFM)	\$160.99*
 Includes Bracket & Gauge	AC 5000-10	1" NPT Filter- Regulator- Lubricator* (180 SCFM)	\$147.61*
	AC 5000-10D	1" NPT Filter- Regulator- Lubricator* with Auto Drain (180 SCFM)	\$185.71*
	AC 5000-10M	1" NPT Filter- Regulator- Lubricator* with Metal Bowl (180 SCFM)	\$175.33*
	AC 5000-10DM	1" NPT Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (180 SCFM)	\$216.11*
 Includes Bracket & Gauge	AC 1010-M5	M5/10-32 Stacking Filter- Regulator- Lubricator* (3 SCFM)	\$43.97*
	AC 2010-01	1/8" NPT Stacking Filter- Regulator- Lubricator* (18 SCFM)	\$46.78*
	AC 2010-01D	1/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (18 SCFM)	\$64.49*
	AC 2010-01M	1/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (18 SCFM)	\$56.02*
	AC 2010-01DM	1/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM)	\$71.40*
	AC 2010-02	1/4" NPT Stacking Filter- Regulator- Lubricator* (18 SCFM)	\$46.78*
	AC 2010-02D	1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (18 SCFM)	\$64.49*
	AC 2010-02M	1/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (18 SCFM)	\$56.02*
	AC 2010-02DM	1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (18 SCFM)	\$71.42*
 Includes Bracket & Gauge	AC 3010-02	1/4" NPT Stacking Filter- Regulator- Lubricator* (60 SCFM)	\$65.49*
	AC 3010-02D	1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (60 SCFM)	\$88.59*
	AC 3010-02M	1/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (60 SCFM)	\$67.59*
	AC 3010-02DM	1/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (60 SCFM)	\$97.45*
	AC 3010-03	3/8" NPT Stacking Filter- Regulator- Lubricator* (60 SCFM)	\$65.49*
	AC 3010-03D	3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (60 SCFM)	\$88.59*
	AC 3010-03M	3/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (60 SCFM)	\$79.35*
	AC 3010-03DM	3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (60 SCFM)	\$95.61*
	AC 4010-03	3/8" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM)	\$94.59*
	AC 4010-03D	3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM)	\$123.39*
	AC 4010-03M	3/8" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM)	\$122.31*
	AC 4010-03DM	3/8" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM)	\$138.48*
	AC 4010-04	1/2" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM)	\$94.59*
	AC 4010-04D	1/2" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM)	\$123.39*
	AC 4010-04M	1/2" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM)	\$122.31*
	AC 4010-04DM	1/2" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM)	\$138.50*
	AC 4010-06	3/4" NPT Stacking Filter- Regulator- Lubricator* (105 SCFM)	\$108.11*
	AC 4010-06D	3/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (105 SCFM)	\$136.90*
	AC 4010-06M	3/4" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (105 SCFM)	\$130.98*
	AC 4010-06DM	3/4" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (105 SCFM)	\$150.59*
	AC 5010-10	1" NPT Stacking Filter- Regulator- Lubricator* (140 SCFM)	\$135.14*
	AC 5010-10D	1" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain (140 SCFM)	\$163.93*
	AC 5010-10M	1" NPT Stacking Filter- Regulator- Lubricator* with Metal Bowl (140 SCFM)	\$162.86*
	AC 5010-10DM	1" NPT Stacking Filter- Regulator- Lubricator* with Auto Drain & Metal Bowl (140 SCFM)	\$213.11*

	Part No.	Description (* Includes Bracket & Gauge)	List Price
 Includes Bracket & Gauge	AR1000-M5	M5/10-32 Regulator* (4 SCFM)	\$20.75*
	AR2000-01	1/8" NPT Regulator* (19 SCFM)	\$21.47*
	AR2000-02	1/4" NPT Regulator* (19 SCFM)	\$21.47*
	AR2500-02	1/4" NPT Regulator* (50 SCFM)	\$30.66*
	AR3000-02	1/4" NPT Regulator* (88 SCFM)	\$33.26*
	AR3000-03	3/8" NPT Regulator* (88 SCFM)	\$33.26*
	AR4000-03	3/8" NPT Regulator* (210 SCFM)	\$44.34*
	AR4000-04	1/2" NPT Regulator* (210 SCFM)	\$44.34*
	AR4000-06	3/4" NPT Regulator* (210 SCFM)	\$51.28*
	AR5000-10	1" NPT Regulator* (280 SCFM)	\$55.47*
	AF1000-M5	M5 Filter (4 SCFM)	\$12.47
	AF2000-01	1/8" NPT Filter (26 SCFM)	\$12.85
	AF2000-01D	1/8" NPT Filter with Auto Drain (26 SCFM)	\$30.56
	AF2000-01M	1/8" NPT Filter with Metal Bowl (26 SCFM)	\$19.12
	AF2000-01DM	1/8" NPT Filter with Auto Drain & Metal Bowl (26 SCFM)	\$32.22
	AF2000-02	1/4" NPT Filter (26 SCFM)	\$12.85
	AF2000-02D	1/4" NPT Filter with Auto Drain (26 SCFM)	\$30.56
	AF2000-02M	1/4" NPT Filter with Metal Bowl (26 SCFM)	\$19.12
	AF2000-02DM	1/4" NPT Filter Auto Drain & Metal Bowl (26 SCFM)	\$32.22
 With Metal Bowl and Sight Glass  Polycarbonate Bowl with Metal Shield	AF3000-02	1/4" NPT Filter (70 SCFM)	\$19.39
	AF3000-02D	1/4" NPT Filter with Auto Drain (70 SCFM)	\$42.50
	AF3000-02M	1/4" NPT Filter with Metal Bowl (70 SCFM)	\$26.32
	AF3000-02DM	1/4" NPT Filter Auto Drain & Metal Bowl (70 SCFM)	\$46.20
	AF3000-03	3/8" NPT Filter (70 SCFM)	\$19.39
	AF3000-03D	3/8" NPT Filter with Auto Drain (70 SCFM)	\$42.50
	AF3000-03M	3/8" NPT Filter with Metal Bowl (70 SCFM)	\$26.32
	AF3000-03DM	3/8" NPT Filter Auto Drain & Metal Bowl (70 SCFM)	\$46.20
	AF4000-03	3/8" NPT Filter (140 SCFM)	\$27.03
	AF4000-03D	3/8" NPT Filter with Auto Drain (140 SCFM)	\$50.13
	AF4000-03M	3/8" NPT Filter with Metal Bowl (140 SCFM)	\$33.96
	AF4000-03DM	3/8" NPT Filter Auto Drain & Metal Bowl (140 SCFM)	\$57.06
	AF4000-04	1/2" NPT Filter (140 SCFM)	\$27.03
	AF4000-04D	1/2" NPT Filter with Auto Drain (140 SCFM)	\$50.13
	AF4000-04M	1/2" NPT Filter with Metal Bowl (140 SCFM)	\$33.96
	AF4000-04DM	1/2" NPT Filter Auto Drain & Metal Bowl (140 SCFM)	\$57.06
	AF4000-06	3/4" NPT Filter (210 SCFM)	\$30.15
	AF4000-06D	3/4" NPT Filter with Auto Drain (210 SCFM)	\$58.94
	AF4000-06M	3/4" NPT Filter with Metal Bowl (210 SCFM)	\$37.08
	AF4000-06DM	3/4" NPT Filter Auto Drain & Metal Bowl (210 SCFM)	\$62.09
	AF5000-10	1" NPT Filter (245 SCFM)	\$40.18
	AF5000-10D	1" NPT Filter with Auto Drain (245 SCFM)	\$69.02
	AF5000-10M	1" NPT Filter with Metal Bowl (245 SCFM)	\$47.11
	AF5000-10DM	1" NPT Filter with Auto Drain & Metal Bowl (245 SCFM)	\$75.92

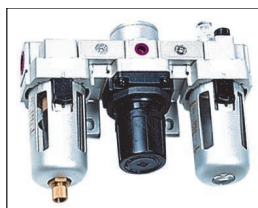
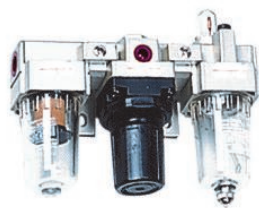
Air Filter-Regulator-Lubricator List Price

	Part No.	Description (* Includes Bracket & Gauge)	List Price
	AL1000-M5	M5 Lubricator (3 SCFM)	\$12.47
	AL2000-01	1/8" NPT Lubricator (28 SCFM)	\$12.85
	AL2000-01M	1/8" NPT Lubricator with Metal Bowl (28 SCFM)	\$17.46
	AL2000-02	1/4" NPT Lubricator (28 SCFM)	\$12.85
	AL2000-02M	1/4" NPT Lubricator with Metal Bowl (28 SCFM)	\$17.47
	AL3000-02	1/4" NPT Lubricator (60 SCFM)	\$19.39
	AL3000-02M	1/4" NPT Lubricator with Metal Bowl (60 SCFM)	\$26.32
	AL3000-03	3/8" NPT Lubricator (60 SCFM)	\$19.39
	AL3000-03M	3/8" NPT Lubricator with Metal Bowl (60 SCFM)	\$26.32
	AL4000-03	3/8" NPT Lubricator (180 SCFM)	\$27.03
	AL4000-03M	3/8" NPT Lubricator with Metal Bowl (180 SCFM)	\$40.89
	AL4000-04	1/2" NPT Lubricator (180 SCFM)	\$27.03
	AL4000-04M	1/2" NPT Lubricator with Metal Bowl (180 SCFM)	\$40.89
	AL4000-06	3/4" NPT Lubricator (220 SCFM)	\$30.15
	AL4000-06M	3/4" NPT Lubricator with Metal Bowl (220 SCFM)	\$45.60
	AL5000-10	1" NPT Lubricator (245 SCFM)	\$42.62
	AL5000-10M	1" NPT Lubricator with Metal Bowl (245 SCFM)	\$56.49
 Includes Bracket & Gauge	AW1000-M5	M5 Filter- Regulator* (3 SCFM)	\$30.78*
	AW2000-01	1/8" NPT Filter- Regulator* (19 SCFM)	\$30.83*
	AW2000-01D	1/8" NPT Filter- Regulator* with Auto Drain (19 SCFM)	\$47.00*
	AW2000-01M	1/8" NPT Filter- Regulator* with Metal Bowl (19 SCFM)	\$35.45*
	AW2000-01DM	1/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (19 SCFM)	\$51.62*
	AW2000-02	1/4" NPT Filter- Regulator* (19 SCFM)	\$30.83*
	AW2000-02D	1/4" NPT Filter- Regulator* with Auto Drain (19 SCFM)	\$47.00*
	AW2000-02M	1/4" NPT Filter- Regulator* with Metal Bowl (19 SCFM)	\$35.45*
	AW2000-02DM	1/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (19 SCFM)	\$51.62*
 Includes Bracket & Gauge	AW3000-02	1/4" NPT Filter- Regulator* (70 SCFM)	\$41.58*
	AW3000-02D	1/4" NPT Filter- Regulator* with Auto Drain (70 SCFM)	\$64.68*
	AW3000-02M	1/4" NPT Filter- Regulator* with Metal Bowl (70 SCFM)	\$48.51*
	AW3000-02DM	1/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (70 SCFM)	\$71.61*
	AW3000-03	3/8" NPT Filter- Regulator* (70 SCFM)	\$41.58*
	AW3000-03D	3/8" NPT Filter- Regulator* with Auto Drain (70 SCFM)	\$64.68*
	AW3000-03M	3/8" NPT Filter- Regulator* with Metal Bowl (70 SCFM)	\$48.51*
	AW3000-03DM	3/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (70 SCFM)	\$71.61*
	AW4000-03	3/8" NPT Filter- Regulator* (140 SCFM)	\$62.37*
	AW4000-03D	3/8" NPT Filter- Regulator* with Auto Drain (140 SCFM)	\$91.16*
	AW4000-03M	3/8" NPT Filter- Regulator* with Metal Bowl (140 SCFM)	\$76.23*
	AW4000-03DM	3/8" NPT Filter- Regulator* Auto Drain & Metal Bowl (140 SCFM)	\$105.00*
	AW4000-04	1/2" NPT Filter- Regulator* (140 SCFM)	\$62.37*
	AW4000-04D	1/2" NPT Filter- Regulator* with Auto Drain (140 SCFM)	\$91.16*
	AW4000-04M	1/2" NPT Filter- Regulator* with Metal Bowl (140 SCFM)	\$76.23*
	AW4000-04DM	1/2" NPT Filter- Regulator* Auto Drain & Metal Bowl (140 SCFM)	\$105.00*
	AW4000-06	3/4" NPT Filter- Regulator* (160 SCFM)	\$72.77*
	AW4000-06D	3/4" NPT Filter- Regulator* with Auto Drain (160 SCFM)	\$101.56*
	AW4000-06M	3/4" NPT Filter- Regulator* with Metal Bowl (160 SCFM)	\$86.63*
	AW4000-06DM	3/4" NPT Filter- Regulator* Auto Drain & Metal Bowl (160 SCFM)	\$115.41*
	AW5000-10	1" NPT Filter- Regulator* (195 SCFM)	\$86.65*
	AW5000-10D	1" NPT Filter- Regulator* with Auto Drain (195 SCFM)	\$115.44*
	AW5000-10M	1" NPT Filter- Regulator* with Metal Bowl (195 SCFM)	\$100.51*
	AW5000-10DM	1" NPT Filter- Regulator* Auto Drain & Metal Bowl (195 SCFM)	\$129.29*

FRL Mounting Hardware List Price

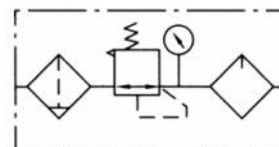
	Part No.	Description	List Price
	Y20	Spacer for AC2000/AC2010	\$4.03
	Y30	Spacer for AC3000/AC3010	\$6.72
	Y40	Spacer for AC4000-04/AC4010-04	\$8.05
	Y50	Spacer for AC4000-06/AC4000-06	\$8.05
	Y60	Spacer for AC5000/AC5010	\$8.39
	Y20L	L-Type Spacer Bracket for AC2000	\$4.03
	Y30L	L-Type Spacer Bracket for AC3000	\$6.72
	Y40L	L-Type Spacer Bracket for AC4000-04	\$8.05
	Y50L	L-Type Spacer Bracket for AC4000-06	\$8.05
	Y60L	L-Type Spacer Bracket for AC5000	\$8.39
	Y20T	T-Type Spacer Bracket for AC2010	\$4.70
	Y30T	T-Type Spacer Bracket for AC3010	\$7.38
	Y40T	T-Type Spacer Bracket for AC4010-04	\$8.73
	Y50T	T-Type Spacer Bracket for AC4010-06	\$9.41
	Y60T	T-Type Spacer Bracket for AC5010	\$13.45
	Y21-N01	Spacer with 1/8 NPT Port for AC2000	\$6.72
	Y21-N02	Spacer with 1/4 NPT Port for AC2000	\$6.72
	Y31-N01	Spacer with 1/8 NPT Port for AC3000	\$10.08
	Y31-N02	Spacer with 1/4 NPT Port for AC3000	\$10.08
	Y41-N02	Spacer with 1/4 NPT Port for AC4000	\$12.09
	Y41-N03	Spacer with 3/8 NPT Port for AC4000	\$12.09
	Y61-N03	Spacer with 3/8 NPT Port for AC5000	\$16.79
	Y61-N04	Spacer with 1/2 NPT Port for AC5000	\$21.00
	B110L	L-Bracket for AC1000	\$4.03
	B210L	L-Bracket for AC2000	\$6.71
	B310L	L-Bracket for AC3000	\$8.05
	B410L	L-Bracket for AC4000	\$8.39
	B510L	L-Bracket for AC4000-06	\$8.39
	B110T	T-Bracket for AC1010	\$4.70
	B210T	T-Bracket for AC2010	\$7.38
	B310T	T-Bracket for AC3010	\$8.73
	B410T	T-Bracket for AC4010	\$9.40
	B510T	T-Bracket for AC4010-06	\$13.44
	B120	Bracket for AR/AW1000	\$2.02
	B220	Bracket for AR/AW2000	\$2.02
	B320	Bracket for AR/AW3000	\$2.69
	B420	Bracket for AR/AW4000-5000	\$3.36
	B240	Bracket for AF/AL2000	\$2.02
	B340	Bracket for AF/AL3000	\$2.68
	B440	Bracket for AF/AL4000-04	\$3.36
	B540	Bracket for AF/AL4000-06	\$4.03
	B640	Bracket for AF/AL5000	\$5.38
	GE-1-160-00	1" Dia. 1/16" R 0-160 PSI back mount pressure gauge for AR1000 series FRL	\$6.47
	GE-1 1/2-30-01	1 1/2" Dia. 1/8" NPT 0-30 PSI back mount pressure gauge for 2000 series FRL	\$6.47
	GE-1 1/2-60-01	1 1/2" Dia. 1/8" NPT 0-60 PSI back mount pressure gauge for 2000 series FRL	\$6.47
	GE-1 1/2-160-01	1 1/2" Dia. 1/8" NPT 0-160 PSI back mount pressure gauge for 2000 series FRL	\$6.47
	GP-1 1/2-160-01	1 1/2" Dia. 1/8" NPT 0-160 PSI panel mount pressure gauge for 2000 series FRL	\$7.52
	GE-2-30-02	2" Dia. 1/4" NPT 0-30 PSI back mount pressure gauge for 3000-5000 series FRL	\$6.93
	GE-2-60-02	2" Dia. 1/4" NPT 0-60 PSI back mount pressure gauge for 3000-5000 series FRL	\$6.93
	GE-2-160-02	2" Dia. 1/4" NPT 0-160 PSI back mount pressure gauge for 3000-5000 series FRL	\$6.93
	GP-2-160-02	2" Dia. 1/4" NPT 0-160 PSI panel mount pressure gauge	\$7.98
	GA-1 1/2-60-01	1.5" Dia. 1/8" NPT 0-60 PSI SS housing back mount glycerin filled	\$11.09
	GA-1 1/2-160-01	1.5" Dia. 1/8" NPT 0-160 PSI SS housing back mount glycerin filled	\$11.09
	VHS2000-01	1/8" NPT Relieving Shut-off /Lockout Valve for 2000-01 Series FRL	\$23.37
	VHS2000-02	1/4" NPT Relieving Shut-off /Lockout Valve for 2000-02 Series FRL	\$23.37
	VHS3000-02	1/4" NPT Relieving Shut-off /Lockout Valve for 3000-02 Series FRL	\$29.78
	VHS3000-03	3/8" NPT Relieving Shut-off /Lockout Valve for 3000-03 Series FRL	\$29.78
	VHS4000-03	3/8" NPT Relieving Shut-off /Lockout Valve for 4000-03 Series FRL	\$44.37
	VHS4000-04	1/2" NPT Relieving Shut-off /Lockout Valve for 4000-04 Series FRL	\$44.37
	VHS4000-06	1/2" NPT Relieving Shut-off /Lockout Valve for 4000-06 Series FRL	
	VHS5000-10	1/2" NPT Relieving Shut-off /Lockout Valve for 5000 Series FRL	

Filter-Regulator-Lubricator Air Flow Charts

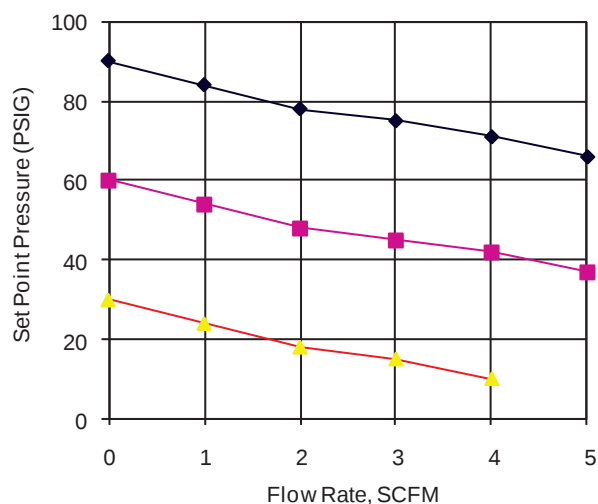


Filter Regulator Lubricator Selection:

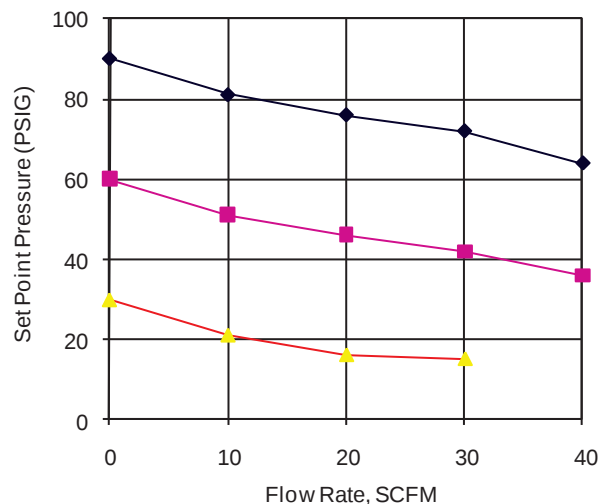
1. Determine flow rate requirements.
2. Determine required set point pressure and allowable pressure drop.
3. Locate the FRL graph with set point pressure that provides the flow rate with acceptable pressure drop.



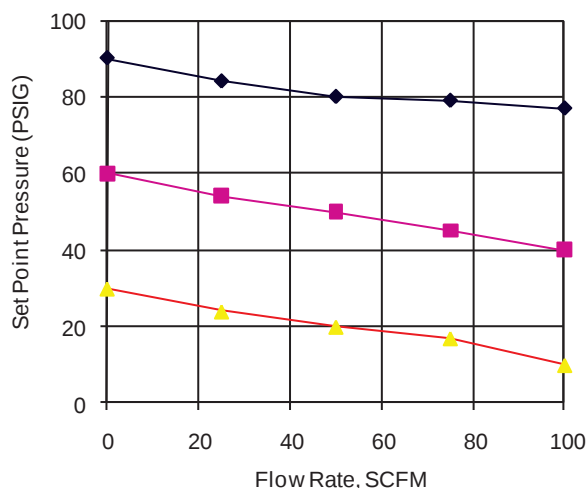
AC1000 Series Filter Regulator Lubricator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



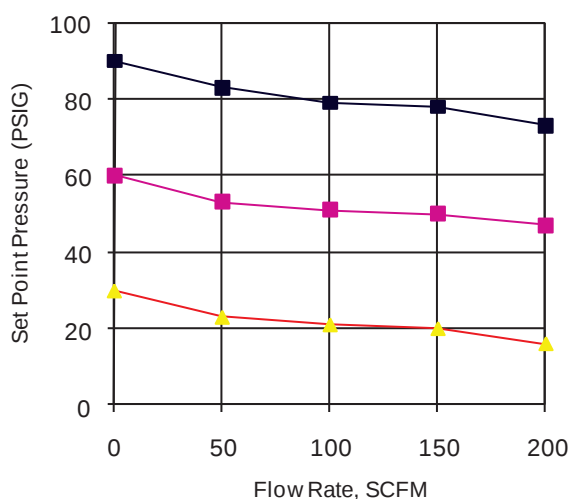
AC2000 Series Filter Regulator Lubricator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



AC3000 Series Filter Regulator Lubricator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



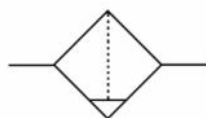
AC4000 Series Filter Regulator Lubricator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



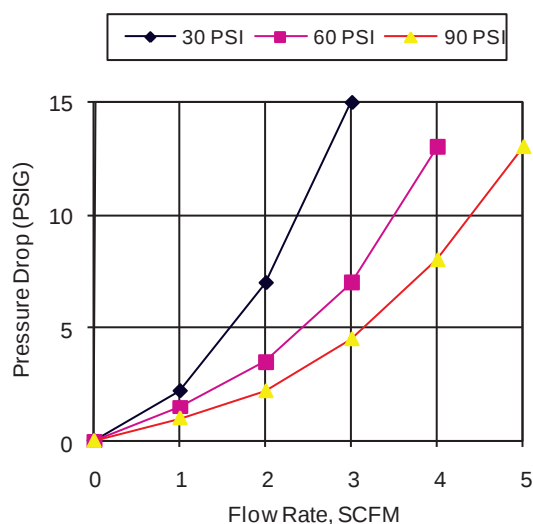


Filter Selection:

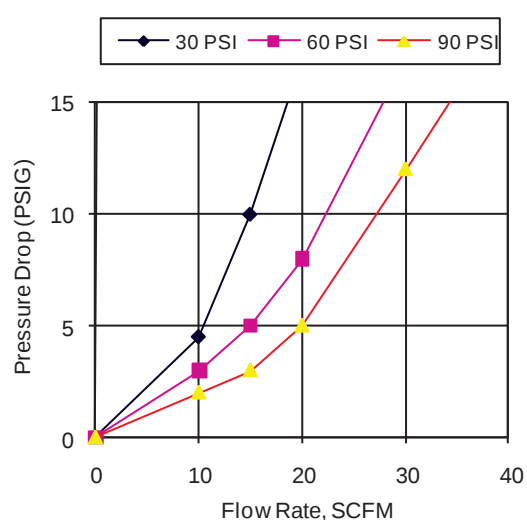
1. Determine flow rate requirements.
2. Determine required set point pressure and allowable pressure drop.
3. Locate the FRL graph with set point pressure that provides the flow rate with acceptable pressure drop.



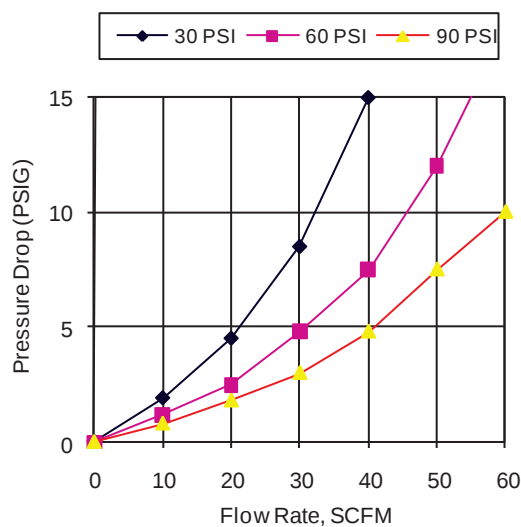
AF1000 Series Filter
Flow Rate VS Pressure Drop
@ 30, 60, 90 PSI Supply Pressure



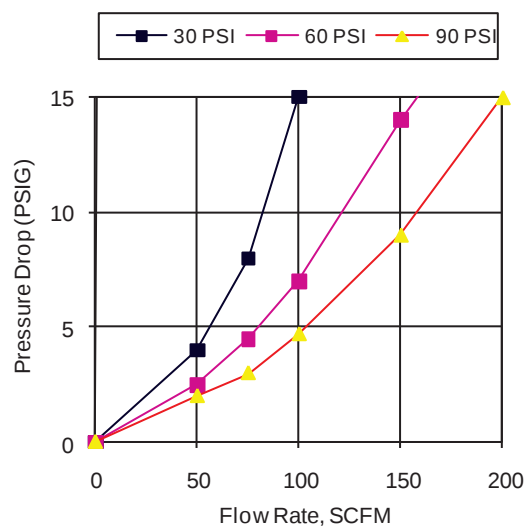
AF2000 Series Filter
Flow Rate VS Pressure Drop
@ 30, 60, 90 PSI Supply Pressure



AF3000 Series Filter
Flow Rate VS Pressure Drop
@ 30, 60, 90 PSI Supply Pressure



AF4000 Series Filter
Flow Rate VS Pressure Drop
@ 30, 60, 90 PSI Supply Pressure

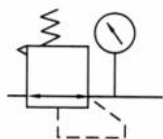


Air Regulator Flow Charts

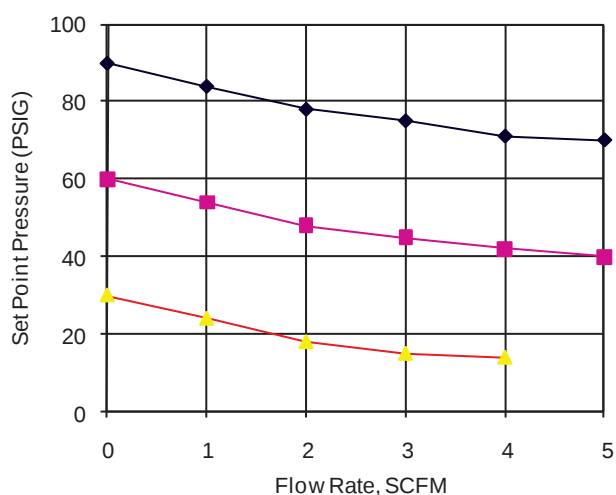


Regulator Selection:

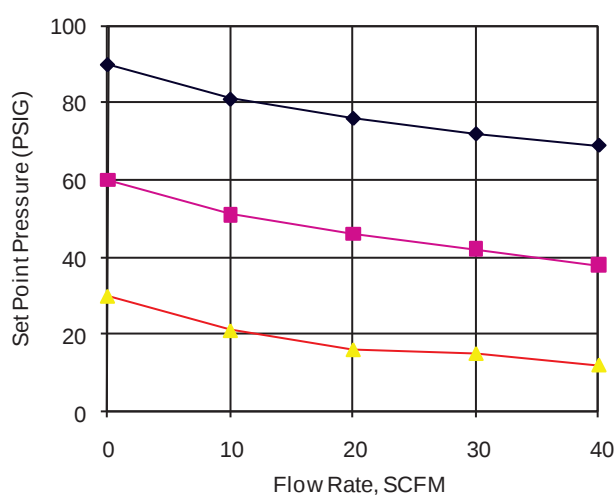
1. Determine flow rate requirements.
2. Determine required set point pressure and allowable pressure drop.
3. Locate the FRL graph with set point pressure that provides the flow rate with acceptable pressure drop.



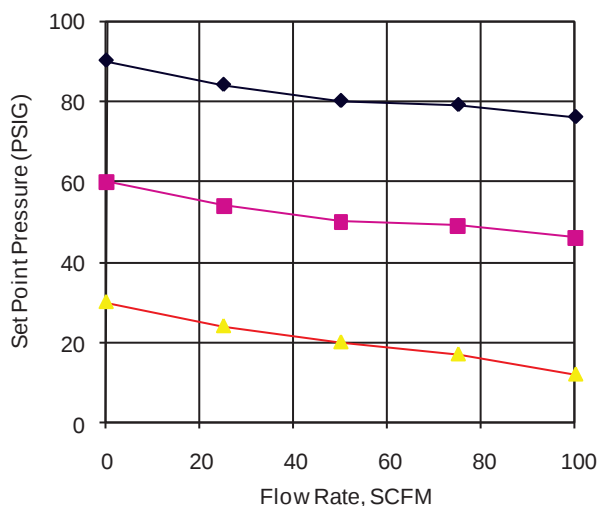
AR1000 Series Pressure Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



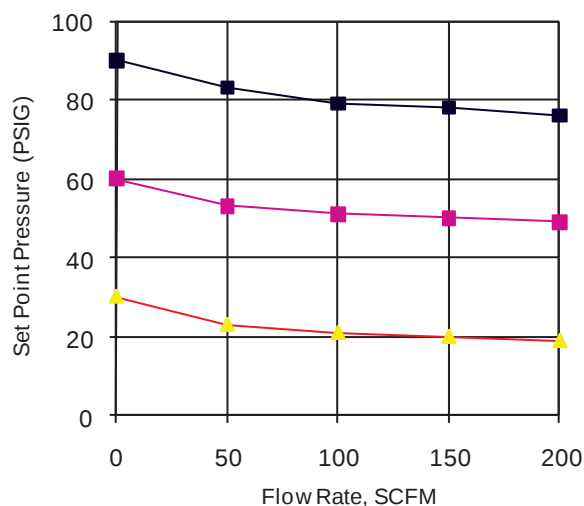
AR2000 Series Pressure Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI

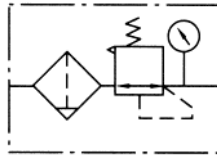


AR3000 Series Pressure Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



AR4000 Series Pressure Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI

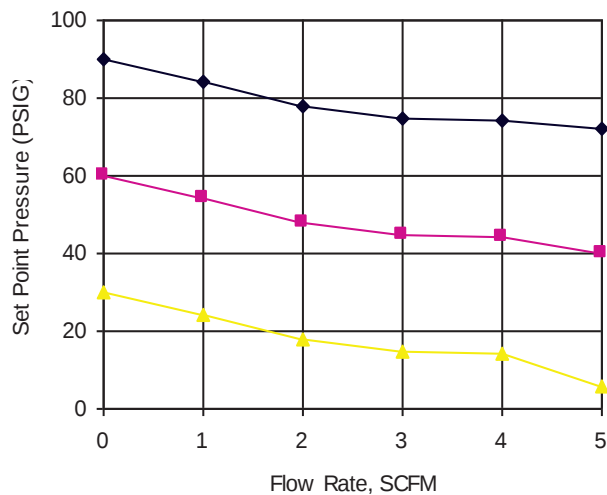




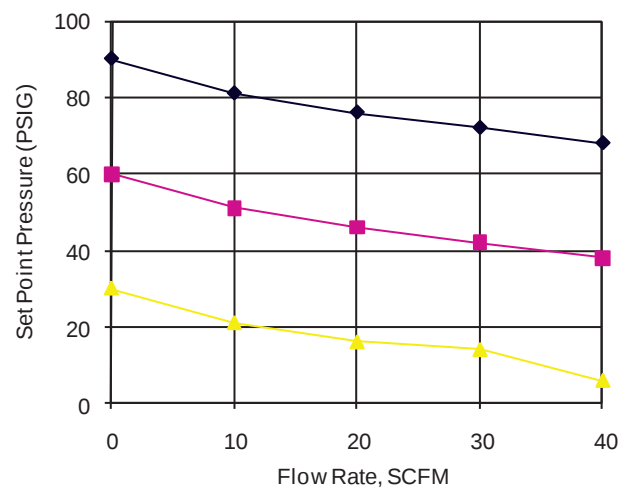
Filter Regulator Selection:

1. Determine flow rate requirements.
2. Determine required set point pressure and allowable pressure drop.
3. Locate the FRL graph with set point pressure that provides the flow rate with acceptable pressure drop.

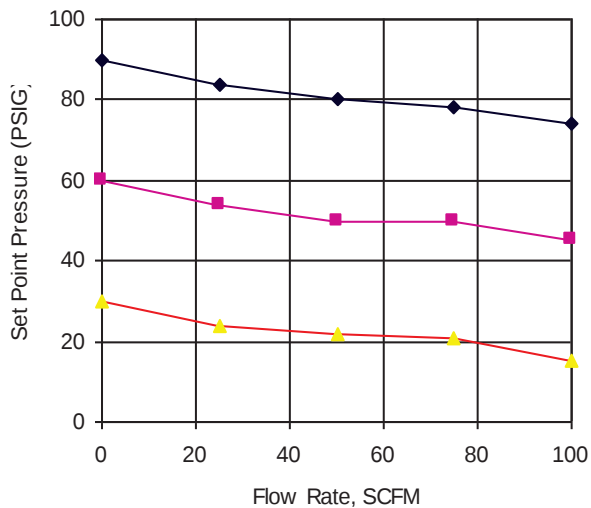
A W1000 Series Filter Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



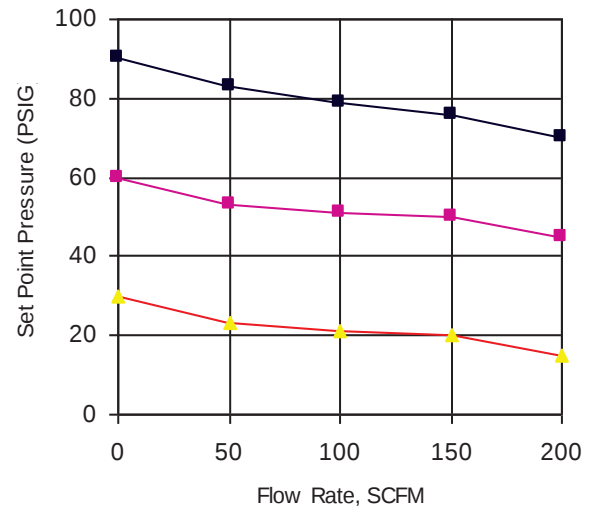
AW2000 Series Filter Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



AW3000 Series Filter Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



AW4000 Series Filter Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



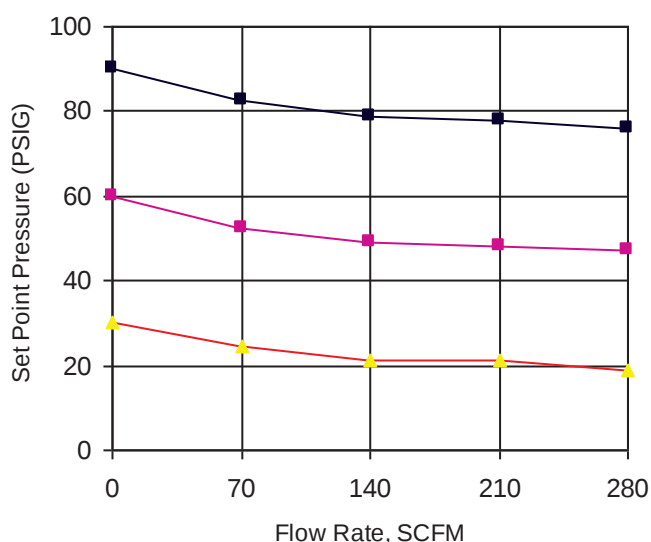
Air Filter Regulator Lubricator Flow Charts



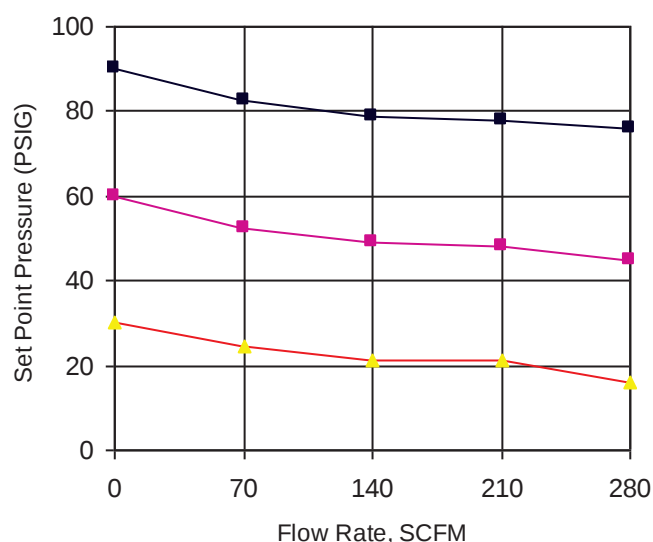
Filter Regulator Lubricator Selection:

1. Determine flow rate requirements.
2. Determine required set point pressure and allowable pressure drop.
3. Locate the FRL graph with set point pressure that provides the flow rate with acceptable pressure drop.

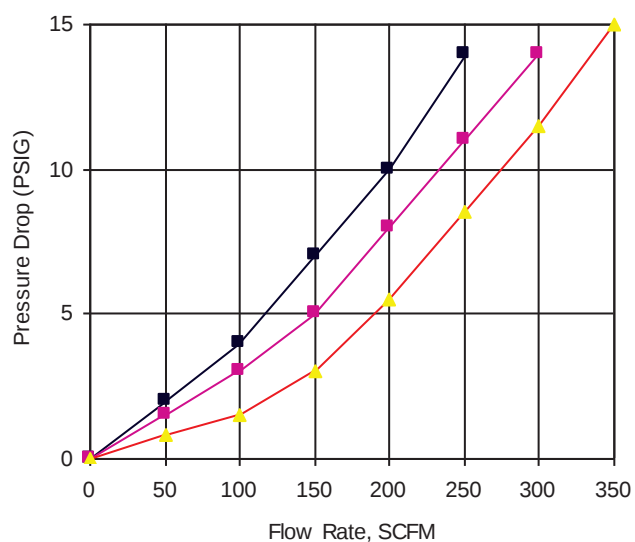
AC5000 Series Filter Regulator Lubricator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



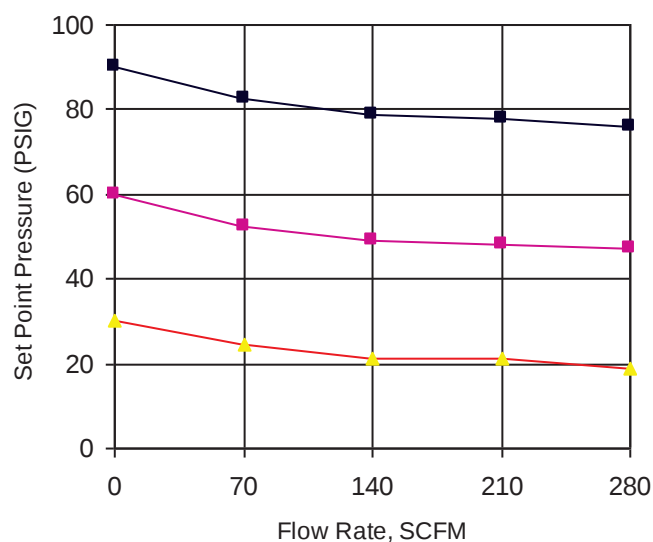
AW5000 Series Filter Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI

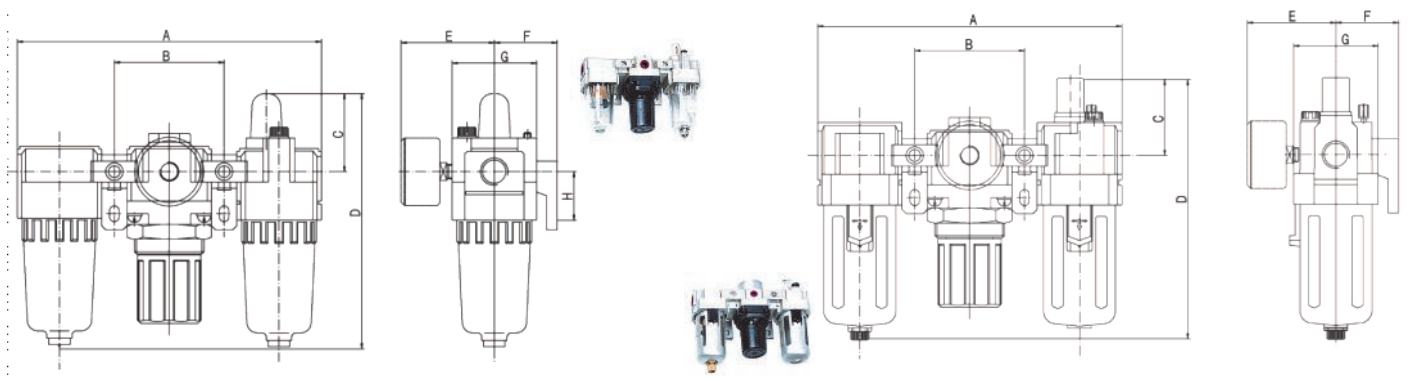


AF5000 Series Filter
Flow Rate VS Pressure Drop
@ 30, 60, 90 PSI Supply Pressure

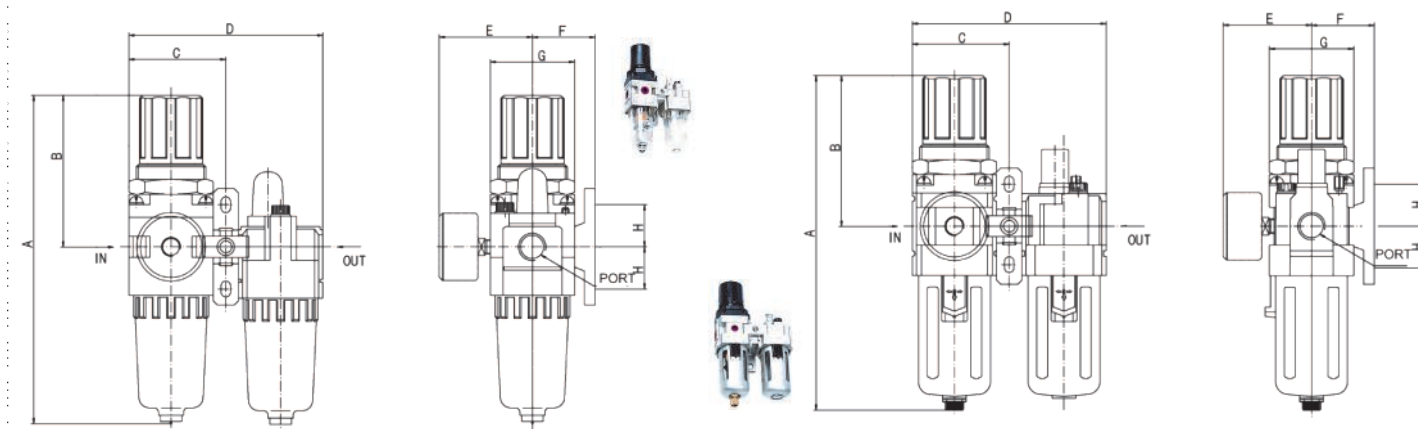


AR5000 Series Pressure Regulator
Flow Rate VS Set Point Pressure
Supply Pressure 100 PSI



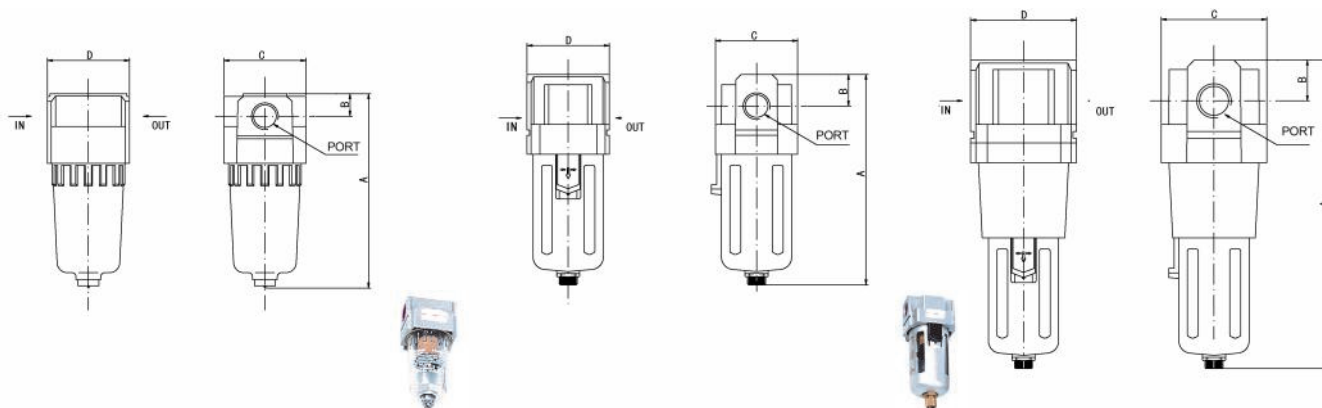


Model	Flow Rate (lpm/scfm)	Port	Gauge Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	F (mm/in)	G (mm/in)	H (mm/in)	Bracket	Weight (kg/lb)	Gauge
AC1000-00	90	10-32 (M5)	1/16 Rc	91	33	25.5	84.5	26	25	25	20	Y10L	0.26	GE-1-160-00
	3			3.58	1.30	1.00	3.33	1.02	0.98	0.98	0.79		0.57	
AC2000-01	500	1/8 NPT	1/8 NPT	140	50	38	125	56.8	30	40	24	Y20L	0.74	GE-1 1/2-160-01
AC2000-02	18	1/4 NPT		5.51	1.97	1.50	4.92	2.24	1.18	1.57	0.94		1.63	
AC3000-02	2000	1/4 NPT	1/8 NPT	181	64	38	156.5	60.8	41	53	35	Y30L	1.18	GE-1 1/2-160-01
AC3000-03	70	3/8 NPT		7.13	2.52	1.50	6.16	2.39	1.69	2.09	1.38		2.60	
AC4000-03	4000	3/8 NPT	1/4 NPT	238	84	41	191.5	65.5	50	70	40	Y40L	2.14	GE-2-160-02
AC4000-04	140	1/2 NPT		9.37	3.31	1.61	7.54	2.58	1.97	2.76	1.57		4.71	
AC4000-06	4500	3/4 NPT	1/4 NPT	253	89	41	193	69.5	50	70	40	Y50L	2.47	GE-2-160-02
	160			9.96	3.50	1.61	7.60	2.74	1.97	2.76	1.57		5.43	
AC5000-06	5000	3/4 NPT	1/4 NPT	300	105	48	271.5	75.5	69.8	90	50	Y60L	3.82	GE-2-160-02
AC5000-10	180	1 NPT		11.81	4.13	1.89	10.69	2.97	2.75	3.54	1.97		8.40	

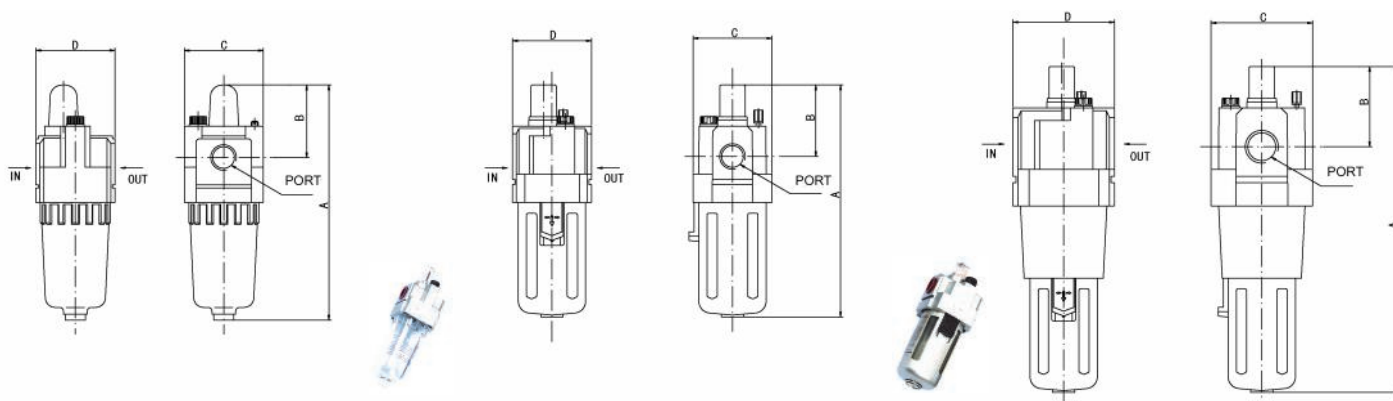


Model	Flow Rate (lpm/scfm)	Port	Gauge Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	F (mm/in)	G (mm/in)	H (mm/in)	Bracket	Weight (kg/lb)	Gauge
AC1010-00	90	10-32 (M5)	1/16 Rc	109.5	50.5	29	58	26	25	25	20	Y10T	0.22	GE-1-160-00
	3			4.31	1.99	1.14	2.28	1.02	0.98	0.98	0.79		0.48	
AC2010-01	500	1/8 NPT	1/8 NPT	164.5	78	45	90	56.8	30	40	24	Y20T	0.66	GE-1 1/2-160-01
AC2010-02	18	1/4 NPT		6.48	3.07	1.77	3.54	2.24	1.18	1.57	0.94		1.45	
AC3010-02	1700	1/4 NPT	1/8 NPT	211	92.5	58.5	117	60.8	41	53	35	Y30T	0.98	GE-1 1/2-160-01
AC3010-03	60	3/8 NPT		8.31	3.64	2.30	4.61	2.39	1.61	2.09	1.38		2.16	
AC4010-03	3000	3/8 NPT	1/4 NPT	262	112	77	154	65.5	50	70	40	Y40T	1.93	GE-2-160-02
AC4010-04	105	1/2 NPT		10.31	4.41	3.03	6.06	2.58	1.97	2.76	1.57		4.25	
AC4010-06	3000	3/4 NPT	1/4 NPT	267	114	82	164	69.5	50	70	40	Y50T	1.99	GE-2-160-02
	105			10.51	4.49	3.23	6.46	2.74	1.97	2.76	1.57		4.38	
AC5010-06	4000	3/4 NPT	1/4 NPT	338	116	97.5	195	75.5	69.8	90	50	Y60T	3.2	GE-2-160-02
AC5010-10	140	1 NPT		13.31	4.57	3.84	7.68	2.97	2.75	3.54	1.97		7.04	

Air Filter Regulator Lubricator Dimensions

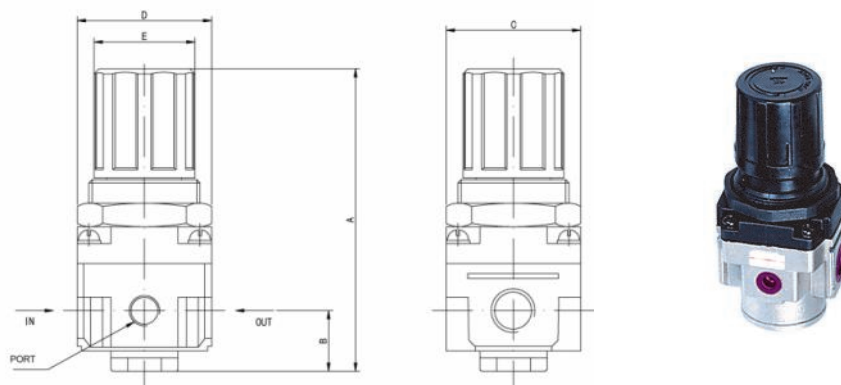


Model	Flow Rate (lpm/scfm)	Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	Bracket/Screw	Weight (kg/lb)
AF1000-00	110	10-32 (M5)	66	7	25		B140	0.07
	4		2.60	0.28	0.98	0.00		0.15
AF2000-01	750	1/8 NPT	97.5	11	40	40	B240/M4x8	0.19
AF2000-02	26	1/4 NPT	3.84	0.43	1.57	1.57		0.42
AF3000-02	2000	1/4 NPT	132.5	14	53	53	B340/M4x8	0.29
AF3000-03	70	3/8 NPT	5.22	0.55	2.09	2.09		0.64
AF4000-03	4000	3/8 NPT	168.5	18	70	70	B440/M5x10	0.55
AF4000-04	140	1/2 NPT	6.63	0.71	2.76	2.76		1.21
AF4000-06	6000	3/4 NPT	172.5	20	70	70	B540/M5x10	0.58
	210		6.79	0.79	2.76	2.76		1.28
AF5000-06	7000	3/4 NPT	247.5	24	90	90	B640/M6x10	1.08
AF5000-10	245	1 NPT	9.74	0.94	3.54	3.54		2.38

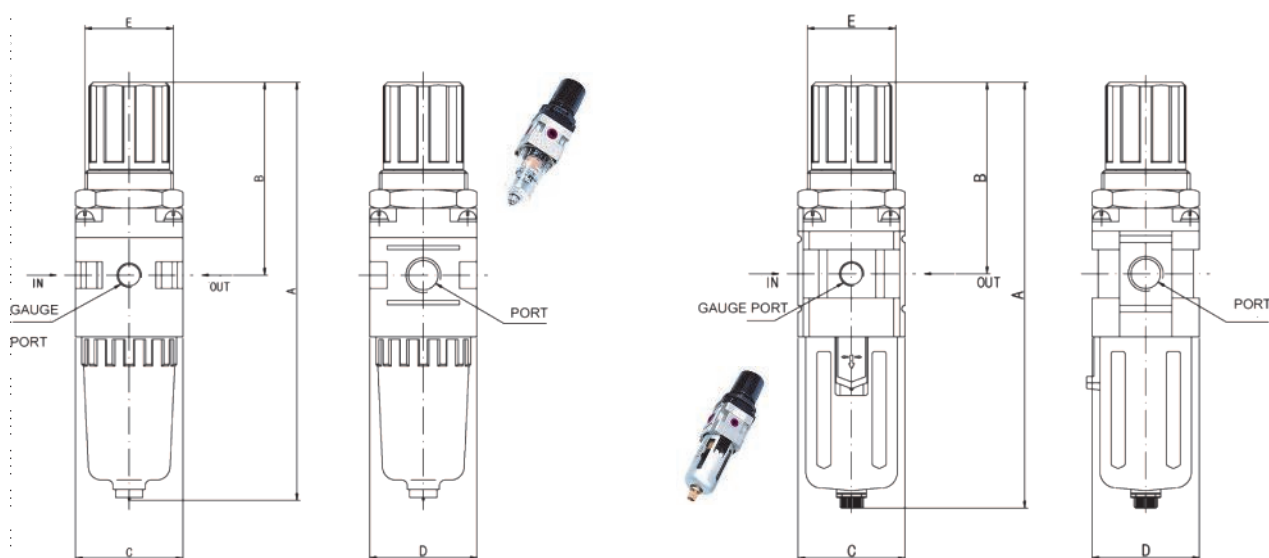


Model	Flow Rate (lpm/scfm)	Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	Bracket/Screw	Weight (kg/lb)
AL1000-00	95	10-32 (M5)	81.5	25.5	25		B140	0.07
	3		3.21	1.00	0.98			0.15
AL2000-01	800	1/8 NPT	122	38	40	40	B240/M4x8	0.22
AL2000-02	28	1/4 NPT	4.80	1.50	1.57	1.57		0.48
AL3000-02	1700	1/4 NPT	142	38	53	53	B340/M4x8	0.3
AL3000-03	60	3/8 NPT	5.59	1.50	2.09	2.09		0.66
AL4000-03	5000	3/8 NPT	177	41	70	70	B440/M5x10	0.56
AL4000-04	180	1/2 NPT	6.97	1.61	2.76	2.76		1.23
AL4000-06	6300	3/4 NPT	177	39	70	70	B540/M5x10	0.58
	220		6.97	1.54	2.76	2.76		1.28
AL5000-06	7000	3/4 NPT	254	45	90	90	B640/M6x10	1.08
AL5000-10	245	1 NPT	10.00	1.77	3.54	3.54		2.38

Air Filter Regulator Lubricator Dimensions

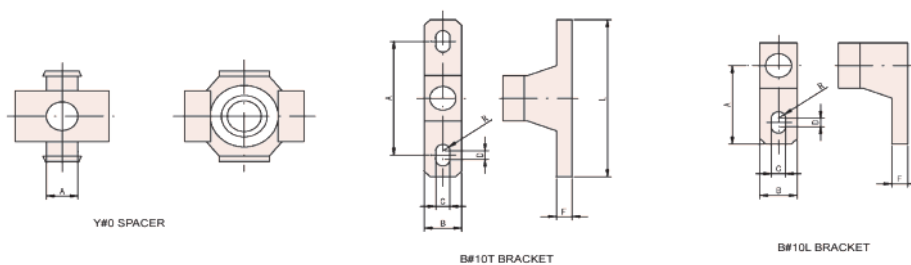


Model	Flow Rate (lpm/scfm)	Port	Gauge Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	Panel Cut Hole (mm/in)	Bracket	Weight (kg/lb)	Gauge
AR1000-00	100 4	10-32 (M5)	1/16 Rc	61.5 2.42	11 0.43	25 0.98	25 0.98	20 0.79	20.5 0.81	B120	0.08 0.18	GE-1-160-00
AR2000-01	550	1/8 NPT	1/8 NPT	95	17	40	40	34	33.5	B220	0.27	GE-1 1/2-160-01
AR2000-02	19	1/4 NPT		3.74	0.67	1.57	1.57	1.34	1.32		0.59	
AR2500-02	2000	1/4 NPT		102.5	25	48	53	34	33.5			
AR2500-03	70	3/8 NPT	1/8 NPT	4.04	0.98	18.9	2.09	1.34	1.32	B320	0.41 0.90	GE-1 1/2-160-01
AR3000-02	2500	1/4 NPT		127.5	35	53	53	40	42.5			
AR3000-03	88	3/8 NPT		5.02	1.38	2.09	2.09	1.57	1.67			
AR4000-03	6000	3/8 NPT	1/4 NPT	149.5	37.5	70	70	54	52.5	B420	0.84 1.85	GE-2-160-02
AR4000-04	210	1/2 NPT		5.89	1.48	2.76	2.76	2.13	2.07			
AR4000-06	6000 210	3/4 NPT	1/4 NPT	154 6.06	40.5 1.59	70 2.76	75 2.95	54 2.13	52.5 2.07	B420	0.84 1.85	GE-2-160-02
AR5000-06	8000	3/4 NPT	1/4 NPT	168	48	90	90	54	52.5		1.19	
AR5000-10	280	1 NPT		6.61	1.89	3.54	3.54	2.13	2.07	B420	2.62	GE-2-160-02



Model	Flow Rate (lpm/scfm)	Port	Gauge Port	A (mm/in)	B (mm/in)	C (mm/in)	D (mm/in)	E (mm/in)	Panel Cut Hole (mm/in)	Bracket	Weight (kg/lb)	Gauge
AW1000-00	90 3	10-32 (M5)	1/16 Rc	109.5 4.31	50.5 1.99	25 0.98	28 1.10	20 1.10	20.5 0.81	B120	0.09 0.20	GE-1-160-00
AW2000-01	550	1/8 NPT	1/8 NPT	164.5	78	40	40	34	33.5	B220	0.36	GE-1 1/2-160-01
AW2000-02	19	1/4 NPT		6.48	3.07	1.57	1.57	1.34	1.32		0.79	
AW3000-02	2000	1/4 NPT	1/8 NPT	211	92.5	53	53	40	33.5	B320	0.56	GE-1 1/2-160-01
AW3000-03	70	3/8 NPT		8.31	3.64	2.09	2.09	1.57	1.32		1.23	
AW4000-03	4000	3/8 NPT	1/4 NPT	262	112	70	70	54	42.5	B420	1.15	GE-2-160-02
AW4000-04	140	1/2 NPT		10.31	4.41	2.76	2.76	2.13	1.67		2.53	
AW4000-06	4500 160	3/4 NPT	1/4 NPT	267 10.51	114 4.49	70 2.76	75 2.95	54 2.13	42.5 1.67	B520	1.21 2.66	GE-2-160-02
AW5000-06	5500	3/4 NPT	1/4 NPT	338	116	90	90	54	42.5		1.7	
AW5000-10	195	1 NPT		13.31	4.57	3.54	3.54	2.13	1.67	B620	3.74	GE-2-160-02

Air Filter Regulator Lubricator Dimensions

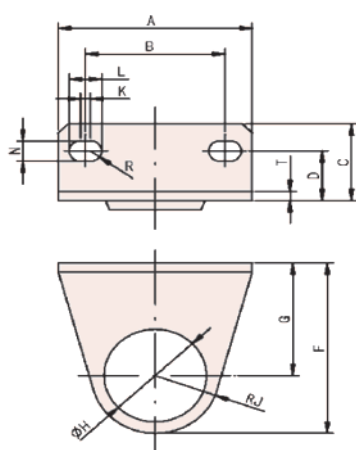


Spacer

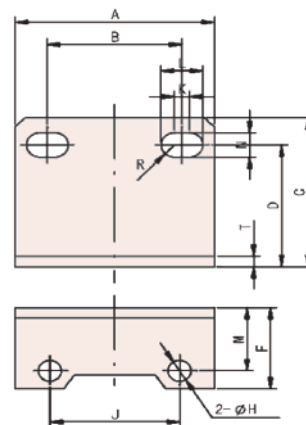
T Bracket

L Bracket

L Bracket	L Spacer Bracket	For	T Bracket	T Spacer Bracket	For	A	B	C	D	E	F	G	H	R	L
B110L	Y10L	AC1000	B110T	Y10T	AC1010	20	12	4.5	3	2.5	5	8	40	2.25	27
B210L	Y20L	AC2000	B210T	Y20T	AC2010	24	15	5.5	3	30	5	10	48	2.75	33
B310L	Y30L	AC3000	B310T	Y30T	AC3010	35	16	7	4	41	7	11	70	3.5	45
B410L	Y40L	AC4000	B410T	Y40T	AC4010	40	22	9	4	50	7	14	80	4.5	50
B510L	Y50L	AC4000-06	B510T	Y50T	AC4010-06	40	22	9	4	50	7	14	80	4.5	50
B610L	Y60L	AC5000	B610T	Y60T	AC5010	50	23	12	4	69.8	10.5	15	100	6	63



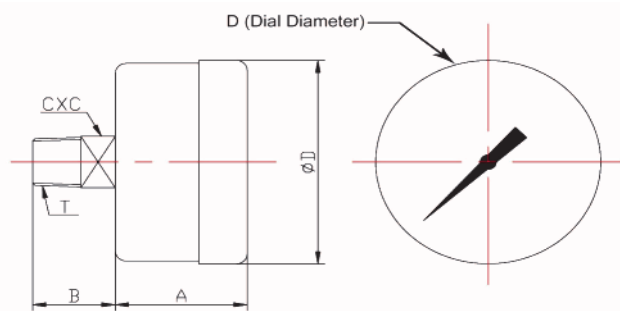
B#20 -Bracket for AR & AW



B#40 Bracket for AF/AL

in (MM)	A	B	C	D	F	G	H	J	K	L	M	N	R	t	Mounting Screw	For
B120	40	28	17	11	37.8	25	20.5	12.3	2	6.5		4.5	2.25	2		AR/AW1000
B220	55	34	35	19	50	30	33.5	20	10	5.4		5.4	2.7	2.3		AR/AW2000-2500
B320	53	40	21.5	14	64	39	42.5	25	1.5	6.5		6.5	3.25	2.3		AR/AW3000
B420	70	54	27	18	79.2	49.2	52.5	30	2	8.5		8.5	4.25	2.3		AR/AW4000-5000

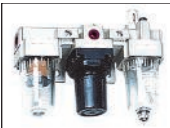
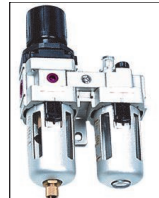
B240	40	27	33	27	18		4.5	26	3	8.4	14	5.4	2.7	2.3	M4X8	AF/AL2000
B340	53	40	39	32	22.5		4.5	35	1.5	8	19	6.5	3.25	2.3	M4X8	AF/AL3000
B440	70	54	47	38	31.5		5.5	47	2	10.5	20	8.5	4.25	2.3	M5X10	AF/AL4000-04
B540	70	54	47	38	31.5		5.5	47	2	10.5	20	8.5	4.25	2.3	M5X10	AF/AL4000-06
B640	90	66	64	52	43		6.5	60	2	13	29	11	5.5	3.2	M6X10	AF/AL5000



Pressure Gauge Part No.	For	(in/MM)				
		T Port Size	A	B	C	D
GE-1-160-00	AR1000	R1/16 (PT)	0.6/15.3	0.4/10	0.47/12	1.0/25.4
GE-1 1/2-160-01	AR2000-3000	1/8 NPT	0.93/25.8	0.67/17.0	0.43/11	1.6/42
GE-2-160-02	AR4000-5000	1/4 NPT	0.97/24.8	0.77/19.7	0.54/14	2.1/52.4

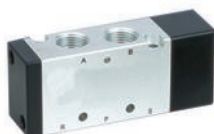
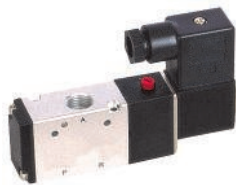
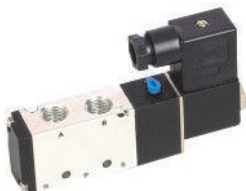
These FRL components are of modular design with joiner clamps. The joiner clamps allow easy connection and disconnection of FRL components for simple installation and maintenance.

Interchangeable with SMC - NAC SERIES FRL

	MODEL	AC1000-00	AC2000-XX	AC3000-XX	AC4000-XX	AC4000-06	AC5000-XX
	Air Flow Rate* SCFM (LPM)	3 (90)	18 (500)	70 (2000)	140 (4000)	160 (4500)	180 (5000)
	Stacking Regulator-Filter-Lubricator	AC1010-00	AC2010-XX	AC3010-XX	AC4010-XX	AC4010-06	AC5010-XX
	Air Flow Rate* SCFM (LPM)	3 (90)	18 (500)	60 (1700)	105 (3000)	105 (3000)	140 (4000)
	Stacking Regulator-Filter	AW1000-00	AW2000-XX	AW3000-XX	AW4000-XX	AW4000-06	AW5000-XX
	Air Flow Rate* SCFM (LPM)	3 (90)	19 (550)	70 (2000)	140 (4000)	160 (4500)	195 (5500)
	Regulators	AR1000-00	AR2000-XX	AR3000-XX	AR4000-XX	AR4000-06	AR5000-XX
	Air Flow Rate* SCFM (LPM)	4 (100)	19 (550)	88 (2500)	210 (6000)	210 (6000)	280 (8000)
	Filters	AF1000-00	AF2000-XX	AF3000-XX	AF4000-XX	AF4000-06	AF5000-XX
	Air Flow Rate* SCFM (LPM)	4 (110)	26 (750)	70 (2000)	140 (4000)	210 (6000)	245 (7000)
	Lubricators	AL1000-00	AL2000-XX	AL3000-XX	AL4000-XX	AL4000-06	AL5000-XX
	Air Flow Rate* SCFM (LPM)	3 (90)	28 (800)	60 (1700)	180 (5000)	220 (6300)	245 (7000)
	Port Size	10-32 (M5)	1/8 or 1/4 NPT	1/4 or 3/8 NPT	3/8 or 1/2 NPT	3/4 NPT	3/4 or 1 NPT
	Port Size (Pressure Gauge)	1/16 Rc (PT)	1/8 NPT	1/8 NPT	1/4 NPT	1/4 NPT	1/4 NPT
	Regulating Range	7-100 PSI	7-125 PSI (0.5-8.5 kgf/cm ²)				
	Max. Operating Pressure	150 PSI (9.9 kgf/cm ²)					
	Operating Temperature	40-140°F (5-60°C)					
	Filtration	5 micron filter (Option); 25 Micron (Standard Sintered Brass Filter)					
	Bowl Material	Polycarbonate (standard) or Aluminum Metal (Option)					
	Bowl Guard	N/A		Steel Bowl Guard			
	Body Material	Die-Casting Aluminum					
	Construction/Regulator	Relieving Type					
	Seals	NBR					
	Filter Drain	Semi-Auto Differential Drain			Semi-Auto Differential Drain (Standard) or Automatic Drain		
	Service	FOR AIR ONLY			FOR AIR ONLY		

*Measured with Supply Air Pressure @100 PSI and Set Point Pressure @ 75 PSI

Air Solenoid & Air Pilot Valves



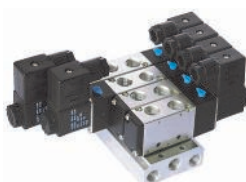
Fine Quality

Precision Engineered



Advanced Design

Excellent Prices



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STC Solenoid Valve Numbering System

Ordering Part No. = (eg. 4V110-1/8-1-D)							
	4V	1	10	1/8		1	D

STC Valve Manifold Numbering System *

Ordering Part No. = (eg. 4V100M-2)		
4V100M	2	KIT
Model	No. of Stations	Blank Plate
3V100M = Manifold for 3V100 series valves 3V200M = Manifold for 3V200 series valves 3V300M = Manifold for 3V300 series valves 3V400M = Manifold for 3V400 series valves 4V100M = Manifold for 4V100 series valves 4V200M = Manifold for 4V200 series valves 4V300M = Manifold for 4V300 series valves 4V400M = Manifold for 4V400 series valves	2 4 6 8 16	KIT = Include Blanking plate, Gasket & Mounting Hardware
* gasket and mounting hardware included		

Air Solenoid Valve List Price



To Order, Please Specify: 1) Model No., 2) Voltage, & 3) Electrical Entry Options

	Part No.	Price	Voltage & Electrical Connection Options B. Electrical Connection	Port Size (NPT)	# Way/Port/Position/Solenoid	Cv	Power
	2V025-1/8	\$19.75	Voltage Options: 1 = 12 VDC 2 = 24VDC 2A=24VAC 3 = 110VAC 4 = 220VAC (50/60Hz)	1/8	2/2/2/1 Direct Acting	0.23	3W to 6.5 W
	2V025-1/4	\$19.75		1/4			
	3V010-1/8	\$19.75		1/8	3/2/2/1 Direct Acting	0.05	
	3V010-1/4	\$19.75		1/4			
	2P025-1/8	\$19.35		1/8	2/2/2/1 Direct Acting	0.23	
	2P025-1/4	\$19.35		1/4			
	2P025-1/8S	\$21.35		1/8	2/2/2/1 Direct Acting for Liquid & DI water	0.23	
	2V1-1/8	\$19.75		1/8	2/2/2/1 Direct Acting	0.23	3W to 4.8 W
	3V1-1/8	\$20.75		1/8	3/2/2/1 Direct Acting	0.05	
	3V110-10/32	\$25.47		10-32	3/3/2/1	0.67	2.5 W
	3V110-1/8	\$25.47		1/8			
	3V210-1/4	\$25.47		1/4		0.89	
	3V310-1/4	\$34.30		1/4		1.68	
	3V310-3/8	\$34.30		3/8		1.68	
	3V410-1/2	\$59.78		1/2		2.79	
	3V120-1/8	\$38.99		1/8	3/3/2/2	0.67	3W to 4.8 W
	3V220-1/4	\$38.99		1/4		0.89	
	3V320-1/4	\$47.82		1/4			
	3V320-3/8	\$47.82		3/8		1.68	
	3V420-1/2	\$83.69		1/2		2.79	
	4V110-10-32	\$26.51		10-32	4/5/2/1	0.67	2.5 W
	4V110-1/8	\$26.51		1/8		0.67	
	4V210-1/4	\$25.47		1/4, 1/8 (Exh)		0.89	
	4V310-3/8	\$34.30		3/8, 1/4 (Exh)		1.68	
	4V410-1/2	\$59.78		1/2		2.79	
	3V310B-1/4	\$39.50	B. Terminal Options: D = DIN (with LED indicator & Conduit Terminal) G = Grommet (12" Lead Wire) E = Explosion Proof	1/4	3/3/2/1	1.68	3W to 4.8 W
	3V320B-1/4	\$58.42		1/4	3/3/2/2	1.68	
	4V310B-1/4	\$39.50		1/4	4/5/2/1	1.68	
	4V320B-1/4	\$58.42		1/4	4/5/2/2	1.68	
	4V310B-3/8	\$39.50		3/8, 1/4 (Exh)	4/5/2/1	1.68	
	4V120-1/8	\$38.99		1/8	4/5/2/2	0.67	2.5 W
	4V220-1/4	\$38.99		1/4, 1/8 (Exh)		0.89	
	4V320-1/4	\$47.82		1/4		1.68	
	4V320-3/8	\$47.82		3/8, 1/4 (Exh)		1.68	
	4V420-1/2	\$83.69		1/2		2.79	
	4V130C-1/8	\$78.28		1/8	4/5/3/2 Closed Center	0.5	2.5 W
	4V230C-1/4	\$80.59		1/4, 1/8 (Exh)		0.67	
	4V330C-3/8	\$93.04		3/8, 1/4 (Exh)		1	
	4V430C-1/2	\$119.54		1/2		1.68	
	4V130P-1/8	\$78.28		1/8	4/5/3/2 Pressure Center	0.5	2.5 W
	4V230P-1/4	\$80.59		1/4, 1/8 (Exh)		0.67	
	4V330P-3/8	\$93.04		3/8, 1/4 (Exh)		1	
	4V430P-1/2	\$119.54		1/2		1.68	
	4V130E-1/8	\$78.28		1/8	4/5/3/2 Exhaust Center	0.5	2.5 W
	4V230E-1/4	\$80.59		1/4, 1/8 (Exh)		0.67	
	4V330E-3/8	\$93.04		3/8, 1/4 (Exh)		1	
	4V430E-1/2	\$119.54		1/2		1.68	

	Part No.	Price	Voltage Options	Electrical Connection Options	Power	Specifications	
	100C	\$7.49	1 = 12 VDC 2 = 24VDC 2A=24VAC	D = DIN (with LED indicator, conduit terminal)	2.5 W	Insulation: F Class IP65; Duty Cycle: 100% ED; CE Certification	To connect DIN coil: 1. Remove the Philip screw from the plastic housing and unplug it from the DIN coil. 2. From the screw opening, use the screw to push the terminal block out of the plastic housing. 3. Note the 1, 2 and ground markings on underside of DIN enclosure. 4. For DC DIN Coil, Connect 1 to Positive, 2 to Negative. 5. For AC DIN Coil, connect 1 to HOT wire, 2 to Neutral wire, and if required connect ground to ground wire. To connect Grommet coil: 1. For DC Coil, connect one of the two wires to Positive, and the other wire to Negative. 2. For AC Coil, connect one of the two wires to HOT wire, and the other wire to neutral wire.
	200C	\$8.32			3-4.8W		
	100C	\$7.49	3 = 110VAC 4 = 220VAC (50/60HZ)	G = Grommet (12" Lead Wire)	2.5 W		
	200C	\$8.32			3—4.8W		
	200C	\$89.78	1E=12VDC 2E=24VDC 2AE=24VAC 3E=110VAC 4E=220VAC (50/60Hz)	Explosion Proof Coil Option All voltages with 1/2" NPT conduit connection FM Approved CL. I; ZONE 1; CL. I; DIV.1; GR. A, B, C, D CL. II; GR. E, F, G CL. III T4 Ta= -20°C...+60°C		Insulation: F Class IP65; Duty Cycle: 100% ED; FM Certification	

Air Pilot Valve List Price | Aluminum Base Mounted Manifolds | Specifications

Air Pilot Valve List Price

	Part No.	Price	Port Size (NPT)	# Ways/Port/ Position/Pilot	Cv		Part No.	Price	Port Size (NPT)	# Ways/Port/ Position/Pilot	Cv
	3A110-1/8	\$19.75	1/8	3/3/2/1	0.67		4A130C-1/8	\$51.46	1/8	4/5/3/2 Closed Center	0.5
	3A210-1/4	\$19.75	1/4, 1/8 (Exh)		0.89		4A230C-1/4	\$65.31	1/4, 1/8 (Exh)		0.67
	3A310-3/8	\$23.91	3/8, 1/4 (Exh)		1.68		4A330C-3/8	\$75.37	3/8, 1/4 (Exh)		1
	3A410-1/2	\$39.50	1/2		2.79		4A430C-1/2	\$89.63	1/2		1.68
	3A120-1/8	\$24.95	1/8	3/3/2/2	0.67		4A130P-1/8	\$51.46	1/8	4/5/3/2 Pressure Center	0.5
	3A220-1/4	\$25.47	1/4, 1/8 (Exh)		0.89		4A230P-1/4	\$65.31	1/4, 1/8 (Exh)		0.67
	3A320-3/8	\$30.15	3/8, 1/4 (Exh)		1.68		4A330P-3/8	\$75.37	3/8, 1/4 (Exh)		1
	3A420-1/2	\$51.46	1/2		2.79		4A430P-1/2	\$89.63	1/2		1.68
	4A110-1/8	\$19.75	1/8	4/5/2/1	0.67		4A130E-1/8	\$51.46	1/8	4/5/3/2 Exhaust Center	0.5
	4A210-1/4	\$19.75	1/4, 1/8 (Exh)		0.89		4A230E-1/4	\$65.31	1/4, 1/8 (Exh)		0.67
	4A310-3/8	\$23.91	3/8, 1/4 (Exh)		1.68		4A330E-3/8	\$75.37	3/8, 1/4 (Exh)		1
	4A410-1/2	\$39.50	1/2		2.79		4A430E-1/2	\$89.63	1/2		1.68
	4A120-1/8	\$24.95	1/8	4/5/2/2	0.67						
	4A220-1/4	\$25.47	1/4, 1/8 (Exh)		0.89						
	4A320-3/8	\$30.15	3/8, 1/4 (Exh)		1.68						
	4A420-1/2	\$51.46	1/2		2.79						
Air Pilot Namur Valves	3A310B-1/4	\$29.91	1/4	3/3/2/1	1.68						
	3A320B-1/4	\$36.15	1/4	3/3/2/2	1.68						
	4A310B-1/4	\$31.91	1/4	4/5/2/1	1.68						
	4A320B-1/4	\$38.15	1/4	4/5/2/2	1.68						

Integrated Aluminum Base Mounted Manifolds*

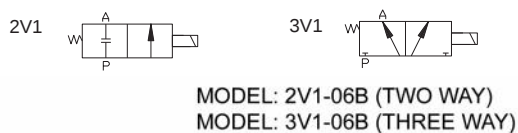
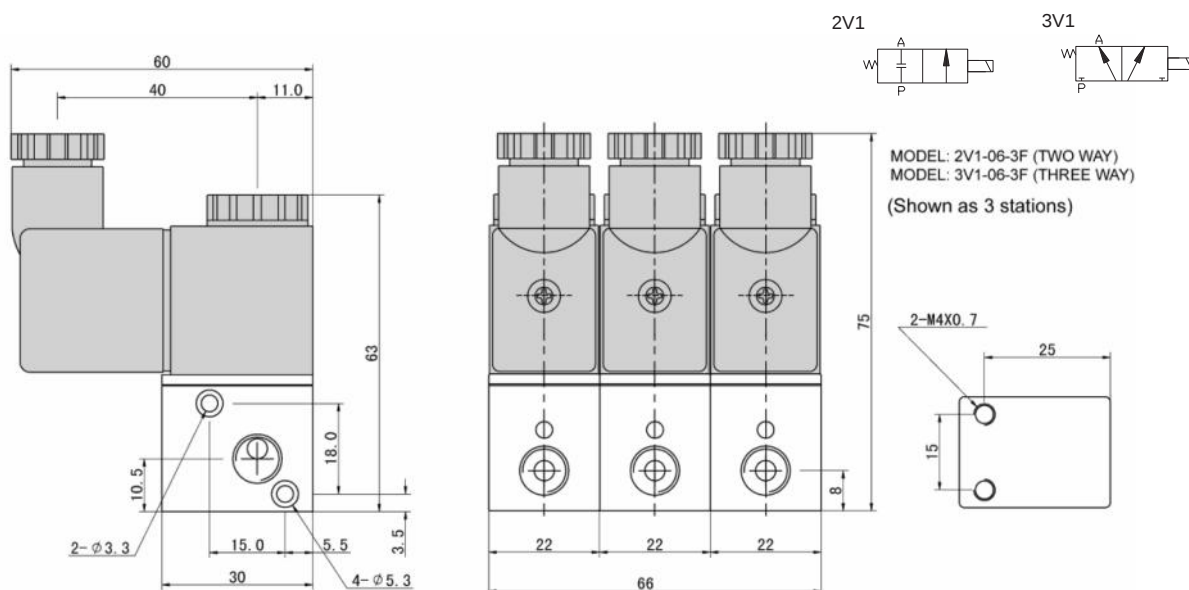
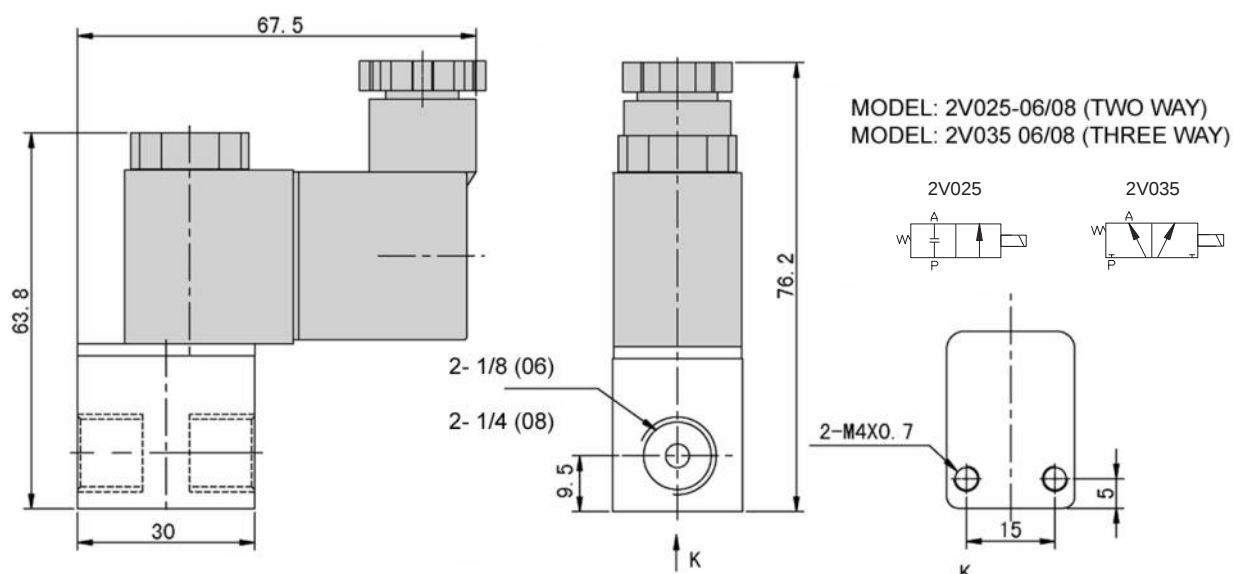
To Order, Please Specify: 1) Part No., 2) No. of Stations (Order Valve Separately)							
	Part No.	Number of Stations	Description		Part No.	Number of Stations	Description
	3V-100M-2	\$11.55/2 stations	Integrated Base for Mounting 3V100 or 3A100 series Solenoid Valves		4V-100M-2	\$11.55/2 station	Integrated Base for Mounting 4V100 or 4A100 series Solenoid Valves
	3V-100M-4	\$23.10/4 stations			4V-100M-4	\$23.10/4 station	
	3V-100M-6	\$34.65/6 stations			4V-100M-6	\$34.65/6 station	
	3V-100M-8	\$46.20/8 stations			4V-100M-8	\$46.20/8 stations	
	3V-100M-16	\$92.40/16 stations			4V-100M-16	\$92.40/16 stations	
	3V-100M-B	\$5.08/blank plate			4V-100M-B	\$5.08/blank plate	
	3V-100M-G	\$2.25/gasket			4V-100M-G	\$2.25/gasket	
	3V-200M-2	\$11.55/2 stations	Integrated Base for Mounting 3V200 or 3A200 series Solenoid Valves		4V-200M-2	\$11.55/2 station	Integrated Base for Mounting 4V200 or 4A200 series Solenoid Valves
	3V-200M-4	\$23.10/4 stations			4V-200M-4	\$23.10/4 station	
	3V-200M-6	\$34.65/6 stations			4V-200M-6	\$34.65/6 station	
	3V-200M-8	\$46.20/8 stations			4V-200M-8	\$46.20/8 stations	
	3V-200M-16	\$92.40/16 stations			4V-200M-16	\$92.40/16 stations	
	3V-200M-B	\$5.08/blank plate			4V-200M-B	\$5.08/blank plate	
	3V-200M-G	\$2.45/gasket			4V-400M-G	\$2.45/gasket	
	3V-300M-2	\$17.33/2 stations	Integrated Base for Mounting 3V300 or 3A300 series Solenoid Valves		4V-300M-2	\$17.33/2 stations	Integrated Base for Mounting 4V300 or 4A300 series Solenoid Valves
	3V-300M-4	\$34.65/4 stations			4V-300M-4	\$34.65/4 stations	
	3V-300M-6	\$51.98/6 stations			4V-300M-6	\$51.98/6 stations	
	3V-300M-8	\$69.30/8 stations			4V-300M-8	\$69.30/8 stations	
	3V-300M-16	\$138.60/16 stations			4V-300M-16	\$138.60/16 stations	
	3V-300M-B	\$5.08/blank plate			4V-300M-B	\$5.08/blank plate	
	3V-300M-G	\$2.65/gasket			4V-300M-G	\$2.65/gasket	
	3V-400M-2	\$28.88/2 stations	Integrated Base for Mounting 3V400 or 3A400 series Solenoid Valves		4V-400M-2	\$28.88/2 stations	Integrated Base for Mounting 4V400 or 4A400 series Solenoid Valves
	3V-400M-4	\$57.75/4 stations			4V-400M-4	\$57.75/4 stations	
	3V-400M-6	\$86.63/6 stations			4V-400M-6	\$86.63/6 stations	
	3V-400M-8	\$115.50/8 stations			4V-400M-8	\$115.50/8 stations	
	3V-400M-16	\$231.00/16 stations			4V-400M-16	\$231.00/16 stations	
	3V-400M-B	\$5.08/blank plate			4V-400M-B	\$5.08/blank plate	
	3V-400M-G	\$2.85/gasket			4V-400M-G	\$2.85/gasket	
* Includes mounting hardware and seals							

* Includes mounting hardware and seals

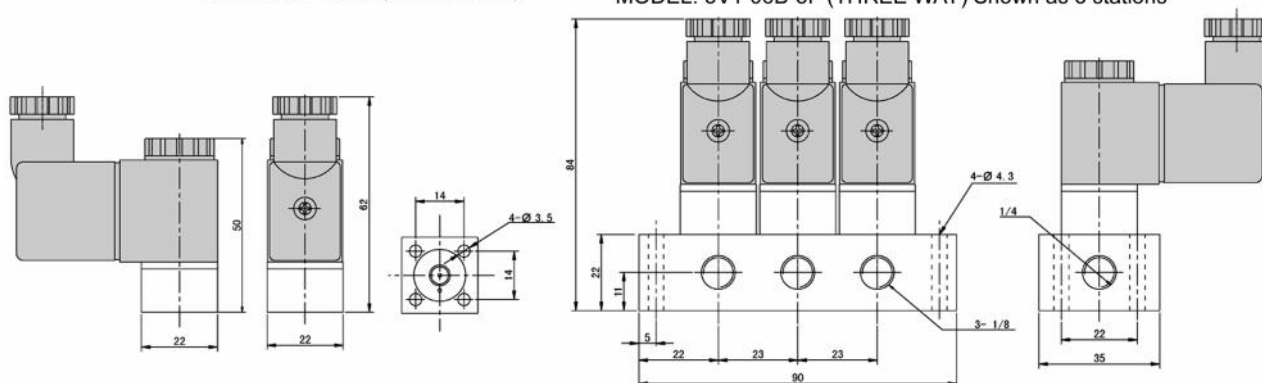
Specifications

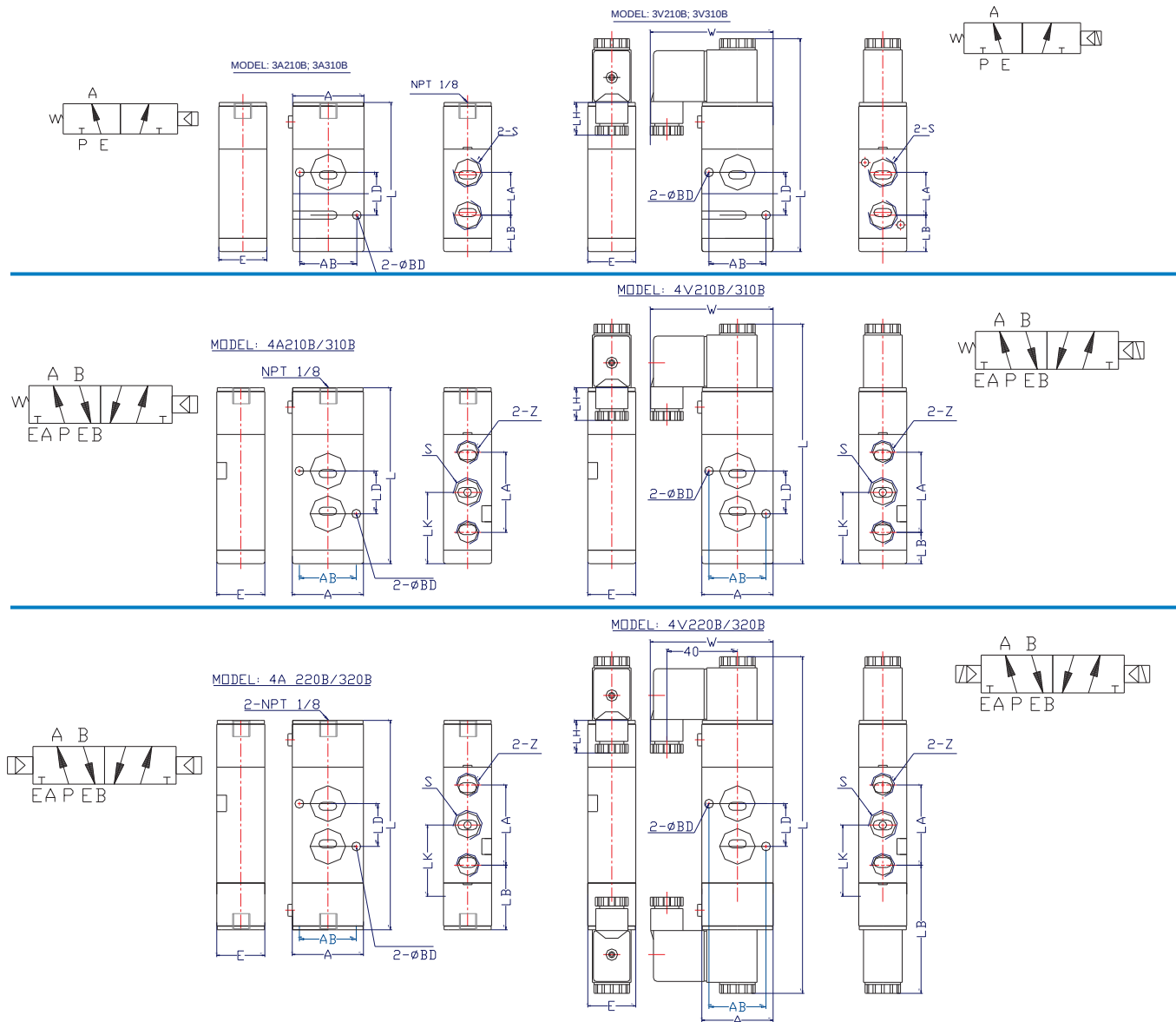
Valve Type	3V & 4V 100-400 Series Valves	3A & 4A 100-400 Series Valves	2V025-035 2P025 Series Valves	2V1, 3V1 Series Valves
Port & Mounting	Body Ported, Manifold Mounted	Body Ported, Manifold Mounted	Body Ported, Stacking or Manifold Mounted	Body Ported, Stacking or Manifold Mounted
Action & Motion	Internal Pilot, Spool Design	Air Pilot, Spool Design	Direct Acting	Direct Acting
Operating Pressure	21 to 115 PSI	0 to 115 PSI	Vacuum to 115 PSI	Vacuum to 115 PSI
Coil Insulation & Protection Class	F Class, IP65 (CE Certification)	N/A	F Class, IP65 (CE Certification)	F Class, IP65 (CE Certification)
Coil Duty Cycle	100% ED	100% ED	100% ED	100% ED
Manual Override	Non-Locking: 100 series, Locking: 200 to 400 series	N/A	N/A	Non-Locking
Electrical Connection	D = DIN (with LED indicator, conduit terminal), G = Grommet (12" - 18" Lead Wire)			N/A
Working Medium	40 micron filtered air or inert gas		40 micron filtered air	40 micron filtered air
Maximum Pressure	180 PSI @ 75 Deg. F			
Operating Temperature	14 to 140 Deg. F (-10 to 60 Deg. C)			
Body Material	Aluminum (Engineered Plastic for 2P Series)			
Seal Material	NBR (Buna N)			
Lubrication	Not Required			
Service	Air			

Air Solenoid Valve Dimensions



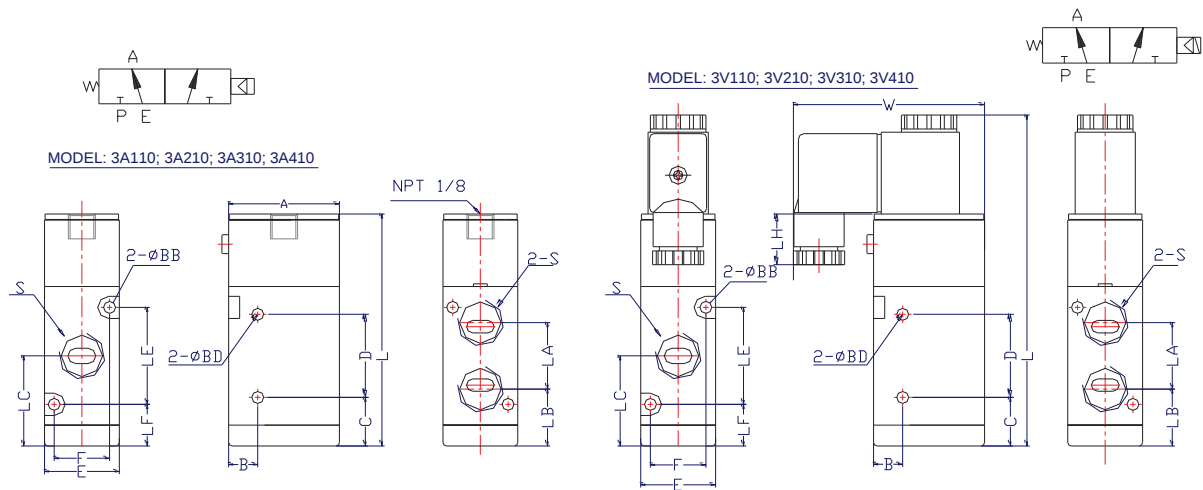
MODEL: 2V1-06B-3F (TWO WAY)
MODEL: 3V1-06B-3F (THREE WAY) Shown as 3 stations



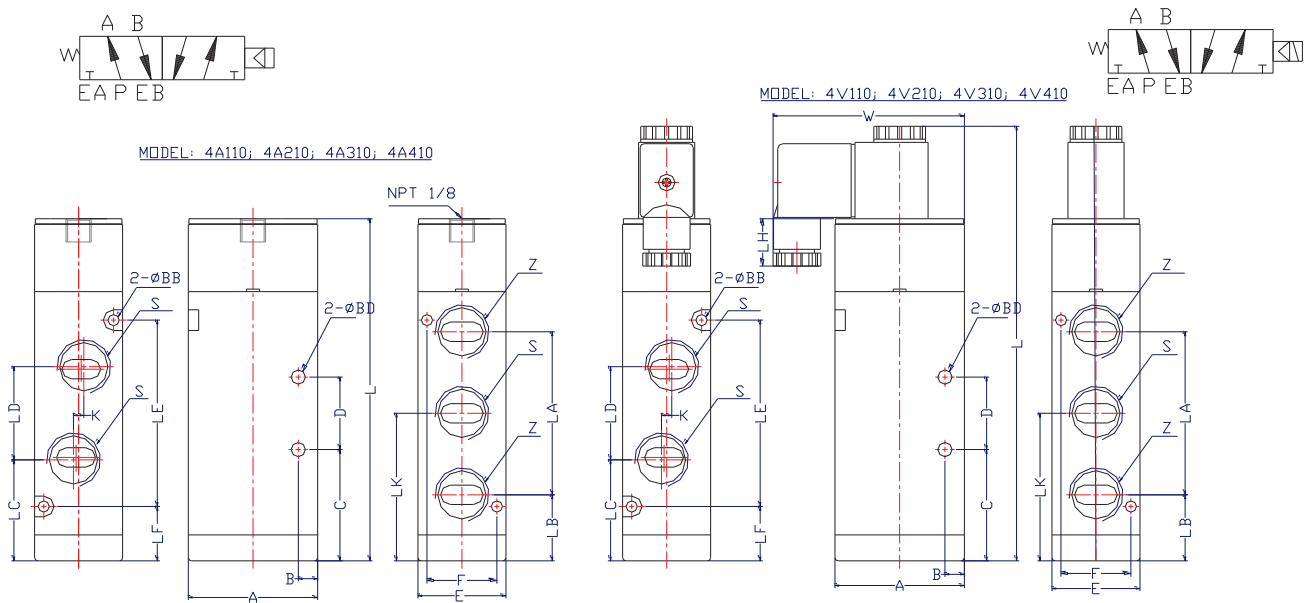


Model	A	E	L	S	W	Z	AB	BD	LA	LB	LD	LH	LK
3A210-1/4B	35	22	77.7	1/4	66.5		29	4.3	18	21			
3A310-1/4B	40	27	80.5	3/8	69		32	5.5	24	20.5			
3A310-3/8B	40	27	80.5	3/8	69		32	5.5	24	20.5			
3V210-1/4B	35	22	111.5	1/4	66.5		29	4.3	18	21		18	
3V310-1/4B	40	27	119.4	1/4	69		32	5.5	24	20.5		18	
3V310-3/8B	40	27	119.4	3/8	69		32	5.5	24	20.5		18	
4A210-1/4B	35	22	77.7	1/4	66.5	1/8	29	4.3	36	13.5	23		31.7
4A310-1/4B	40	27	95.5	1/4	69	1/4	32	5.5	45	17.5	24		40
4A310-3/8B	40	27	95.5	3/8	69	1/4	32	5.5	45	17.5	24		40
4V210-1/4B	35	22	116.5	1/4	66.5	1/8	29	4.3	36	13.5	23	18	32.5
4V310-1/4B	40	27	134.5	1/4	69	1/4	32	5.5	45	17.5	24	18	40
4V310-3/8B	40	27	134.5	3/8	69	1/4	32	5.5	45	17.5	24	18	40
4A220-1/4B	35	22	92	1/4	66.5	1/8	29	4.3	36	28	23		46
4A320-1/4B	40	27	111	1/4	69	1/4	32	5.5	45	33	24		55.5
4A320-3/8B	40	27	111	3/8	69	1/4	32	5.5	45	33	24		55.5
4V220-1/4B	35	22	169.8	1/4	66.5	1/8	29	4.3	36	66.9	23	18	84.9
4V320-1/4B	40	27	188.8	1/4	69	1/4	32	5.5	45	71.9	24	18	94.4
4V320-3/8B	40	27	188.8	3/8	69	1/4	32	5.5	45	71.9	24	18	94.4

Air Solenoid & Air Pilot Valves Dimensions

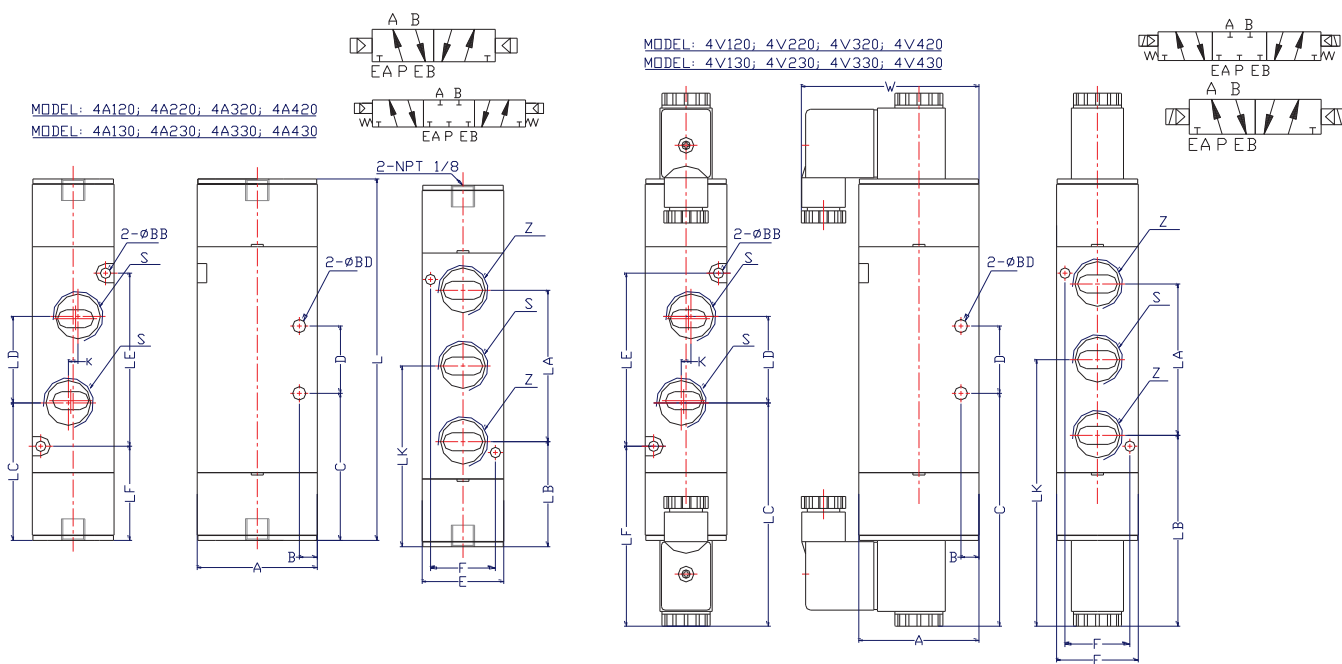


MODEL	A	B	D	E	F	L	S	W	BB	BD	LA	LB	LC	LE	LF	LH
3A110-1/8	27	7.7	21	18.0	13	56.5	1/8	53.5	3.3	3.3	16	14.0	23	19	12.5	
3A210-1/4	35	8.0	25	22.0	17	77.7	1/4	66.5	3.3	4.3	18	21.0	31	33	12.5	
3A310-3/8	40	10.5	30	27.0	20	80.5	3/8	69	4.3	4.3	24	20.5	32.5	35	15	
3A410-1/2	50	13.5	51	34.0	27	96.5	1/2	73.9	4.3	5.5	36	25.5	41.5	44	15.5	
3V110-1/8	27	7.7	21	18.0	13	85.8	1/8	53.5	3.3	3.3	16	14.0	23	19	12.5	10
3V210-1/4	35	8.0	25	22.0	17	111.5	1/4	66.5	3.3	4.3	18	21.0	31	33	12.5	18
3V310-3/8	40	10.5	30	27.0	20	119.4	3/8	69	4.3	4.3	24	20.5	32.5	35	15	18
3V410-1/2	50	13.5	51	34.0	27	137.0	1/2	73.5	4.3	5.5	36	25.5	41.5	44	15.5	18

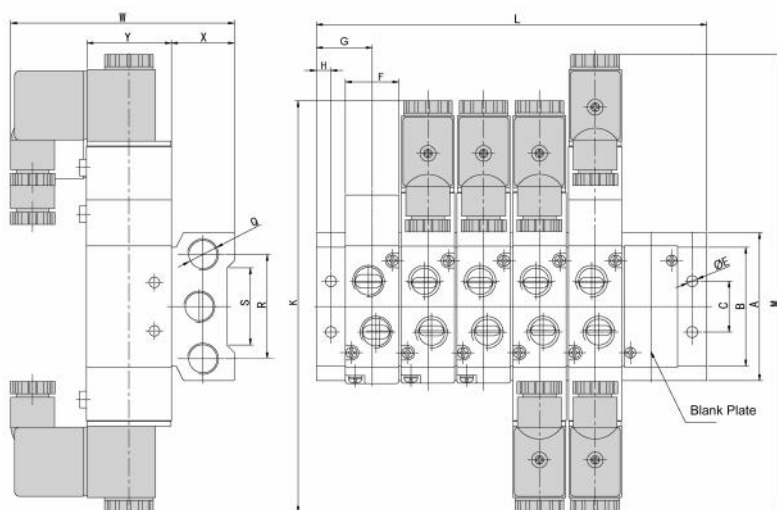


Model	A	B	C	D	E	F	K	L	S	W	Z	BB	BD	LA	LB	LC	LD	LE	LF	LH	LK
4A110-1/8	27	4.0	21.0	14	18	13	3	68.7	1/8	53.5	1/8	3.3	3.3	28	14.2	20.2	16	30	13.0		28.2
4A210-1/4	35	7.0	21.5	20	22	17	3	77.7	1/4	66.5	1/8	3.3	4.3	36	13.5	21.0	21	38	12.5		31.7
4A310-3/8	40	6.5	28.0	24	27	20	4	95.5	3/8	69	1/4	4.3	4.3	45	17.5	28.0	24	50	15.0		40.0
4A410-1/2	50	7.5	43.0	28	34	27	4	128	1/2	73.5	1/2	4.3	5.5	63	25.5	39.0	36	72	21.0		57.0
4V110-1/8	27	4.0	21.0	14	18	13	3	98	1/8	53.5	1/8	3.3	3.3	28	14.0	20.0	16	30	13.0	10	28.0
4V210-1/4	35	7.0	21.5	20	22	17	3	116.5	1/4	66.5	1/8	3.3	4.3	36	13.5	21.0	21	38	12.5	18	32.5
4V310-3/8	40	6.5	28.0	24	27	20	4	134.5	3/8	69	1/4	4.3	4.3	45	17.5	28.0	24	50	15.0	18	40.0
4V410-1/2	50	7.5	43.0	28	34	27	4	167.9	1/2	73.5	1/2	4.3	5.5	63	25.5	39.0	36	72	21.0	18	57.0

Air Solenoid & Air Pilot Valves | Manifolds Dimensions



Model	A	B	C	D	E	F	K	L	S	W	Z	BB	BD	LA	LB	LC	LD	LE	LF	LH	LK
4A120-1/8	27	4.0	33.5	14	18	13	3	81	1/8	53.5	1/8	3.3	3.3	28	26.5	32.5	16	30	25.5		40.5
4A220-1/4	35	7.0	36.0	20	22	17	3	92	1/4	66.5	1/8	3.3	4.3	36	28.0	37.0	21	38	27.0		46.0
4A320-3/8	40	6.5	43.5	24	27	20	4	111	3/8	69	1/4	4.3	4.3	45	33.0	43.5	24	50	30.5		55.5
4A420-1/2	50	7.5	51.0	28	34	27	4	128	1/2	73.5	1/2	4.3	5.5	63	39.5	71.0	36	72	35.0		71.0
4V120-1/8	27	4.0	62.8	14	18	13	3	139.5	1/8	53.5	1/8	3.3	3.3	28	56.0	52.0	16	30	54.8	10	69.8
4V220-1/4	35	7.0	74.9	20	22	17	3	169.8	1/4	66.5	1/8	3.3	4.3	36	66.9	74.4	21	38	65.9	18	84.9
4V320-3/8	40	6.5	82.4	24	27	20	4	188.8	3/8	69	1/4	4.3	4.3	45	71.9	82.4	24	50	69.4	18	94.4
4V420-1/2	50	7.5	96.9	28	34	27	4	217.5	1/2	73.5	1/2	4.3	5.5	63	79.4	92.9	36	72	74.9	18	110.9
4A130-1/8	27	4.0	33.5	14	18	13	3	96	1/8	53.5	1/8	3.3	3.3	28	26.5	32.5	16	30	25.5		40.5
4A230-1/4	35	7.0	36.0	20	22	17	3	110	1/4	66.5	1/8	3.3	4.3	36	28.0	37.0	21	38	27.0		46.0
4A330-3/8	40	6.5	43.5	24	27	20	4	130	3/8	69	1/4	4.3	4.3	45	33.0	43.5	24	50	30.5		55.5
4A430-1/2	50	7.5	51.0	28	34	27	4	165	1/2	73.5	1/2	4.3	5.5	63	39.5	71.0	36	72	35.0		71.0
4V130-1/8	27	4.0	62.8	14	18	13	3	154.6	1/8	53.5	1/8	3.3	3.3	28	56.0	52.0	16	30	54.8	10	69.8
4V230-1/4	35	7.0	74.9	20	22	17	3	188.8	1/4	66.5	1/8	3.3	4.3	36	66.9	74.4	21	38	65.9	18	84.9
4V330-3/8	40	6.5	82.4	24	27	20	4	207.8	3/8	69	1/4	4.3	4.3	45	71.9	82.4	24	50	69.4	18	94.4
4V430-1/2	50	7.5	96.9	28	34	27	4	242.8	1/2	73.5	1/2	4.3	5.5	63	79.4	92.9	36	72	74.9	18	110.9



4V100-400M Manifold Dimensions

Model	A	B	C	E	F	G	H	K	L
100M	58	44	20	4.2	18.3	19	5	140	(N-1)*19+38
200M	61	51	21	4.3	22.4	23	6	170	(N-1)*23+46
300M	75	65	26	4.5	27.3	27	6	189	(N-1)*28+54
400M	104	95	32	5.5	34.3	31.5	7	222	(N-1)*35+63
Model	M	Q	R	S	T	W	X	Y	
100M	155	1/4	40	30	M3x.5	78.5	25	27	
200M	189	1/4	43	32	M3x.5	92.5	26	35	
300M	208	3/8	53	48	M4x.7	99	30	40	
400M	243	1/2	68	67	M4x.7	112	38	50	

Manual Air Valves



	Precision Engineered Fine Quality TM Advanced Design Excellent Prices			

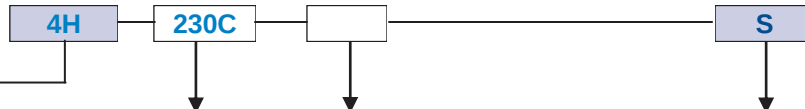


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STC Manual Air Valve Numbering System

Ordering Part No. =
(eg. 4H230C-S)



Model	# Way & # Position	PORT SIZE (NPT)	Options
Manual Air Valves	MOV	3 Way 2 Position	Blank = Plunger (Non-Detented), E = Palm Button (Detented), PB=Palm Button (Non-Detented), PPL = Push Button (Non-Detented), R = Roller Lever (Non-Detented), TB = Knob Switch (Detented), Color: B=Blue, G=Green, K=Black, R=Red, Y=Yellow
Manual Air Valves	MSV	96322 = 3 Way 2 Position 86522 = 4 Way 2 Position	
Hand Lever Valves	TSV		
Hand Lever Valves	4H	230C = 4 Way 3 Position (Closed Center) 230E = 4 Way 3 Position (Exhaust Center) 230P = 4 Way 3 Position (Pressure Center)	M = DETENTED S = NON-DETENTED (Spring Return)
Pull/Push Valves	3R 4R	210 = 3 Way 2 Position 210 = 4 Way 2 Position	
Hand Handle Valves	HV	400 = 4 Way 3 Position 410 = 4 Way 2 Position	Blank = Detented
Foot Operated Valves	FV	220= 2 Way 2 Position 320= 3 Way 2 Position 420= 4 Way 2 Position	Blank = Non-Detented
	4F	210= 4 Way 2 Position	Blank = Non-Detented, L = Detented (with lock), G = Guard

STC Air Valve Specifications

Specifications								
Model	MSV Series	MOV Series	TSV Series	4H Series	3-4R Series	HV Series	4F Series	FV Series
Description	Hand Valves	Hand Valves	Lever Valves	Lever Valves	Pull/Push Valves	Hand Valves	Foot Valves	Foot Valves
Cv	0.89	0.67	1.0	0.89	0.89	1.68	0.89	0.89
Operating Pressure	0 to 150 PSI							
Operating Temperature	23 to 140 Deg. F (-5 to 60 Deg. C)							
Action	Direct Acting							
Working Medium	40 micron filtered air or inert gas							
Body Material	Aluminum (Anodized)							
Seal Material	NBR							
Lubrication	Not Required							

Specifications				
Model	ASC Series	AS Series	QE Series	ST Series
Description	Flow Control Valves	Flow Control Valves	Quick Exhaust Valves	Shuttle Valves
Orifice (mm)	1/8"= 4.6; 1/4"=6.0; 3/8"=6.2; 1/2"= 9.6; 3/4"=9.8			
Operating Pressure	0 to 150 PSI			
Operating Temperature	32 to 140 Deg. F (0 to 60 Deg. C)			
Working Medium	40 micron filtered air or inert gas			
Body Material	Aluminum (Anodized)			
Seal Material	NBR			
Lubrication	Not Required			

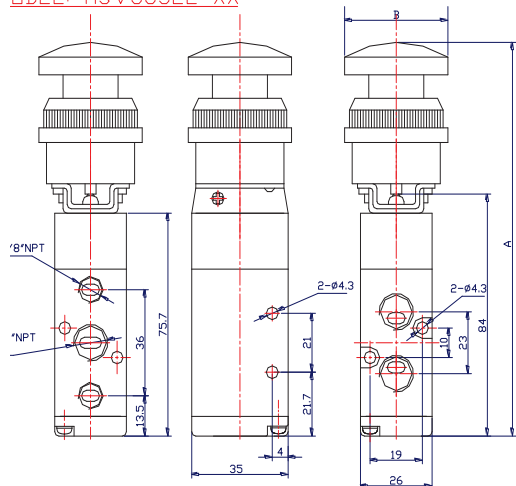
Manual Air Valves

1/4" NPT 4 Way 5 Port 2 Position Air Valves								
Model Price	MSV86522TB \$30.15	MSV86522EB \$30.15	MSV86522PB \$30.15	MSV86522PP \$30.15	MSV86522R \$30.15	MPV522 \$39.17	TSV86522 (M or S) \$31.76	4R210(M or S) \$21.32
Description	Two Position Detented Switch Cv 0.89	Emergency Stop Detented Cv 0.89	Palm Button Momentary Cv 0.89	Push Button Momentary Cv 0.89	Roller Lever Cv 0.89	Toggle Switch Cv 0.89	Lever M = Detented S = Non-detented	Pull/Push M = Detented S = Non-detented
1/4" NPT 3 Way 3 Port 2 Position Air Valves								
Model Price	MSV98322TB \$28.59	MSV98322EB \$28.59	MSV98322PB \$28.59	MSV98322PP \$28.59	MSV98322R \$28.59		TSV98322 (M or S) \$30.15	3R210(M or S) \$20.79
Description	Two Position Switch Cv 0.89	Emergency Stop Detented Cv 0.89	Palm Button Momentary Cv 0.89	Push Button Momentary Cv 0.89	Roller Lever Momentary Cv 0.89		Lever M = Detented S = Non-detented	Pull/Push M = Detented S = Non-detented
1/8" NPT 3 Way 2 Port 2 Position Air Valves								
Model Price	MOV-01 \$18.20	MOV-03 \$18.20	MOV-03A \$18.20	MOV-02 \$16.63			4H230C (M or S) \$65.78	4H230E (M or S) \$65.78
Description	Two Position Switch Cv 0.67	Emergency Stop Detented Cv 0.67	Push Button Momentary Cv 0.67	Roller Lever Momentary Cv 0.67			3 Position, 4 Way Closed Center M = Detented S = Non-detented	3 Position, 4 Way Exhaust Center M = Detented S = Non-detented
1/4" NPT Air Valves								
Model Price	HV410 \$32.75	HV420 \$32.75	FV220 \$34.83	FV320 \$34.83	FV420 \$36.91	4F210 \$42.11	4F210L \$54.05	4F210G \$66.01
Description	2 Position 4 Way Valve Cv 1.68	3 Position 4 Way Valve Closed Center Cv 1.68	2 Way Momentary Foot Valve	3 Way Momentary Foot Valve	4 Way Momentary Foot Valve	4 Way Momentary Foot Valve	4 Way Detented Foot Valve	4 Way Shielded Momentary Foot Valve

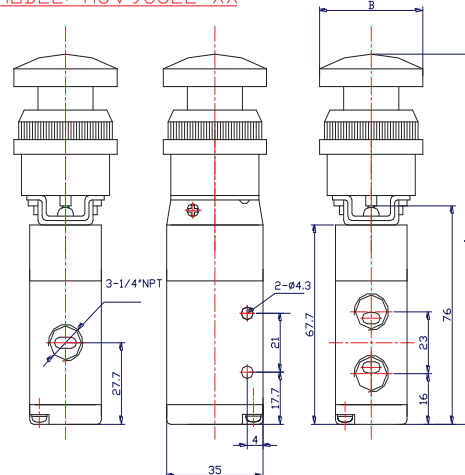
Metal Fittings														
Model	Quick Exhaust		Shuttle Valve		In-line Flow Control		In-line Flow Control		Speed Control Muffler		Muffler		Union Valve	
Port	QE		ST		ASC		AS		BESL		BSL		UV	
10-32									BESL 10-32	\$2.64	BSL 10-32	\$0.68		
1/8	QE N1/8	\$14.35	ST N1/8	\$14.35	ASC N1/8	\$13.51	AS N1/8	\$8.68	BESL N1/8	\$3.68	BSL N1/8	\$1.00	UV 1/4-1/4	\$12.24
1/4	QE N1/4	\$16.22	ST N1/4	\$16.22	ASC N1/4	\$13.51	AS N1/4	\$8.68	BESL N1/4	\$5.20	BSL N1/4	\$1.94	UV 6-6	\$12.24
3/8	QE N3/8	\$16.22	ST N3/8	\$16.22	ASC N3/8	\$15.59	AS N3/8	\$10.40	BESL N3/8	\$7.98	BSL N3/8	\$2.94		
1/2	QE N1/2	\$18.48	ST N1/2	\$18.48	ASC N1/2	\$18.71	AS N1/2	\$16.28	BESL N1/2	\$10.97	BSL N1/2	\$4.52		
3/4	QE N3/4	66.41	ST N3/4	\$72.19										

Push Button Dimensions

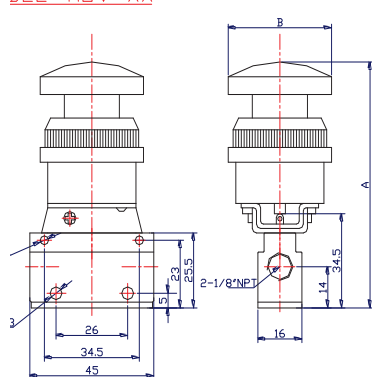
ODEL: MSV86522-XX



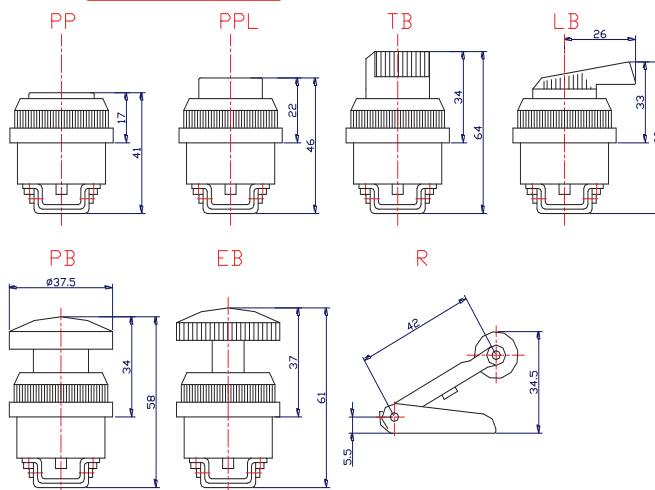
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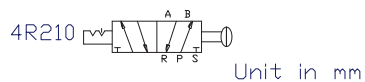
DEL: MOV-XX



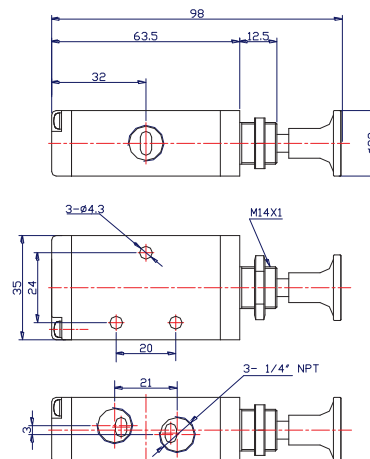
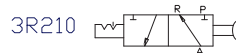
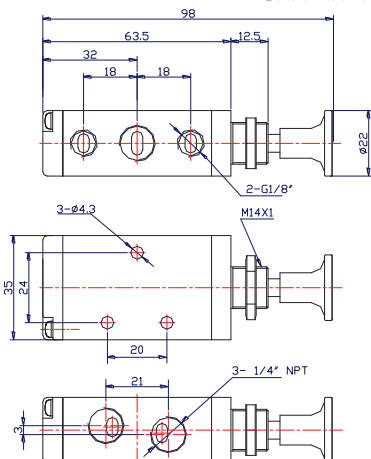
BUTTON STYLE



PANEL MOUNT HOLE SIZE 1 3/16" (30 MM)

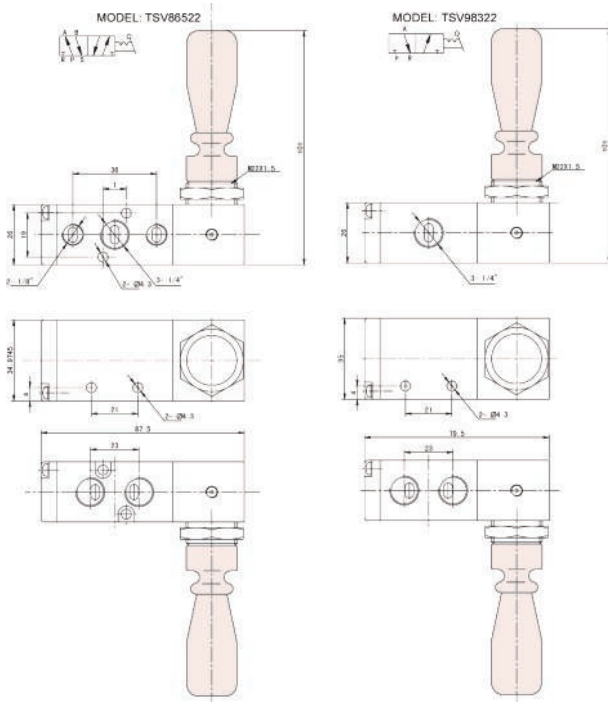


Unit in mm

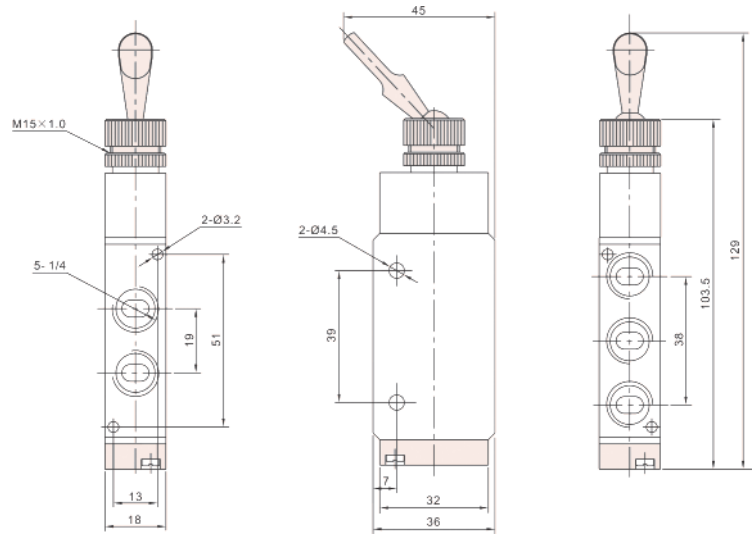


Unit in (mm)

Hand Lever Dimensions

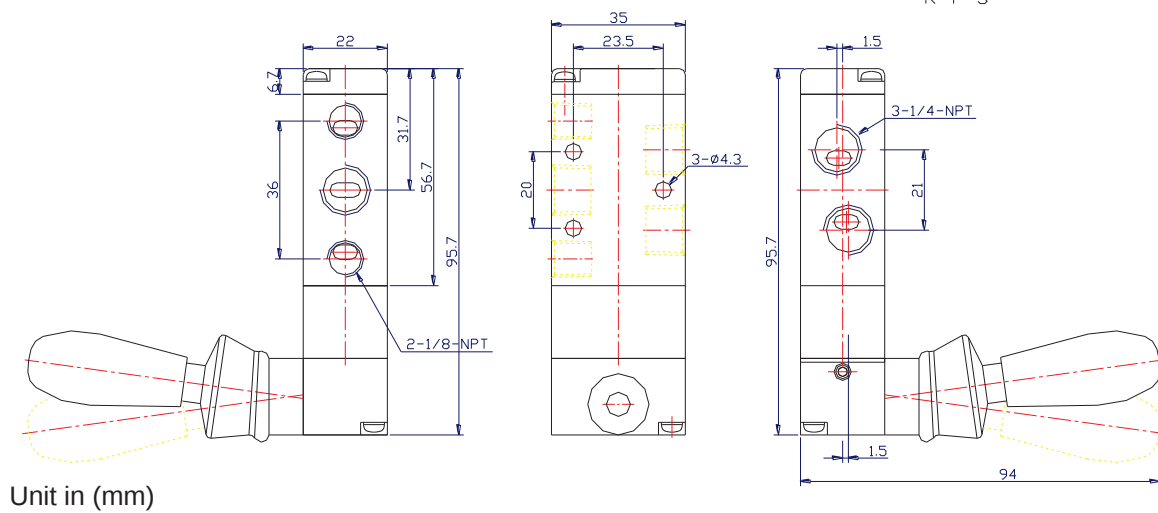


MPV

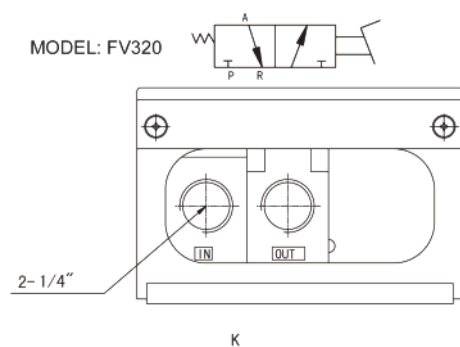
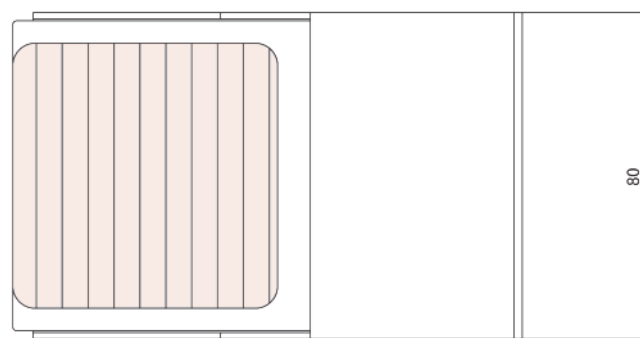
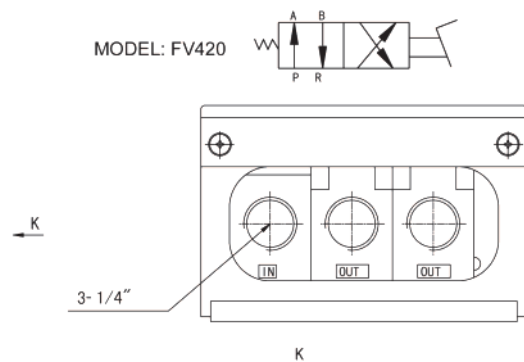
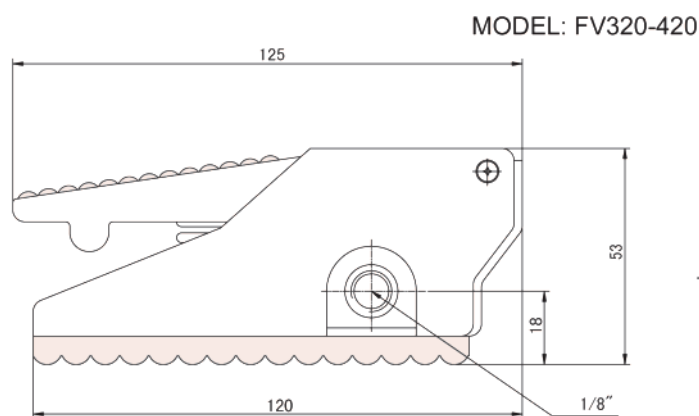
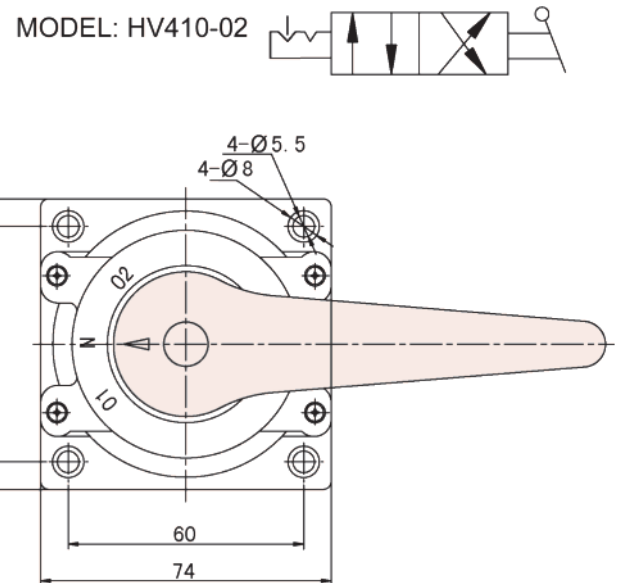
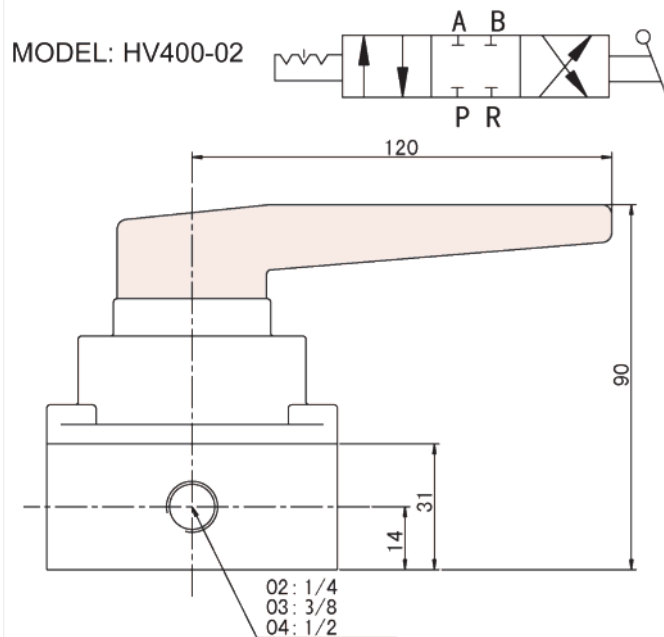


MODEL: 4H230C-1/4

5 PORT 3 POSITION MOMENTARY HAND LEVER VALVE



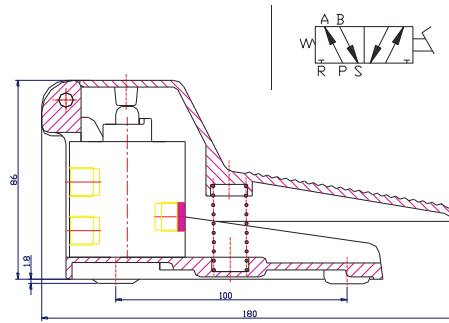
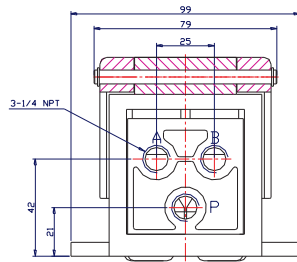
Hand Lever Dimensions



Unit in (mm)

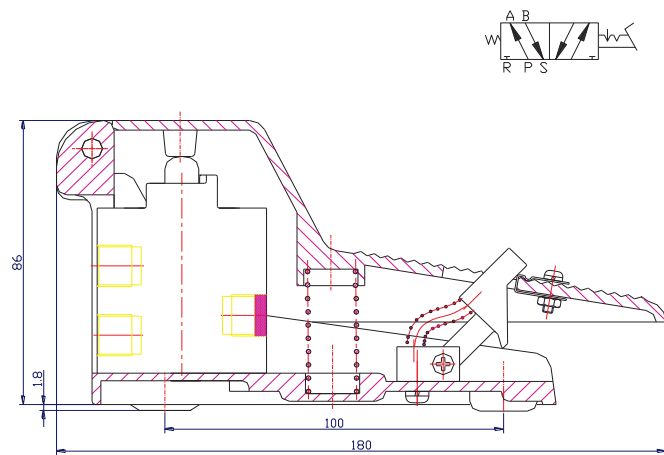
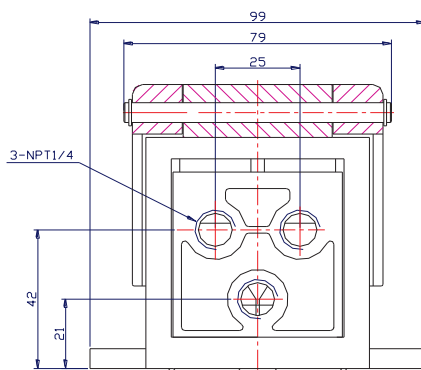
Foot Pedal Dimensions

MODEL: 4F210-1/4

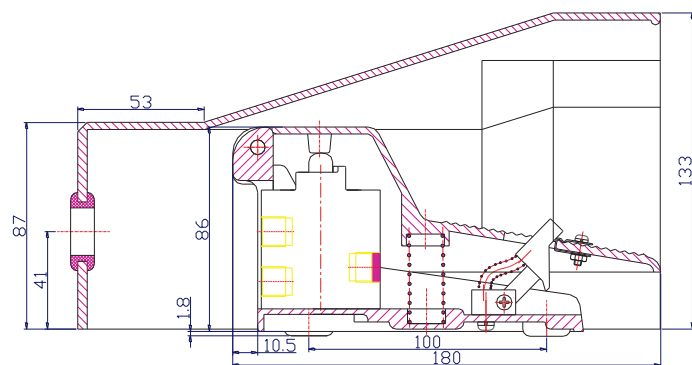
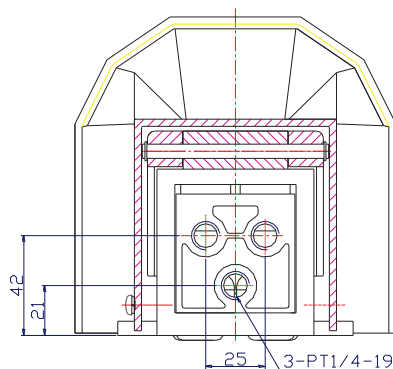
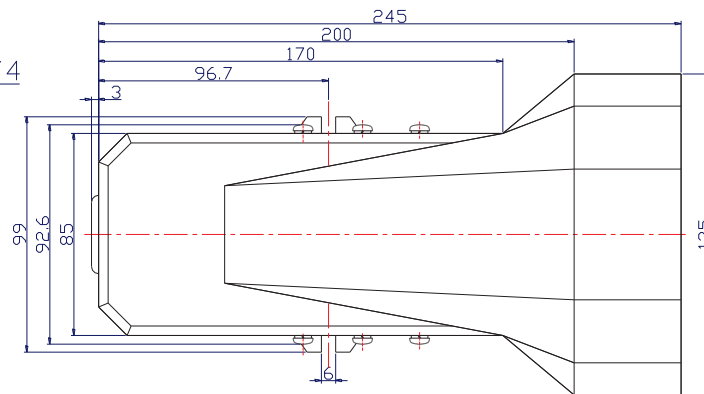


P = AIR INLET PORT
A = AIR OUTLET PORT A
B = AIR OUTLET PORT B

MODEL: 4F210L-1/4

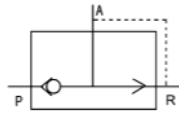
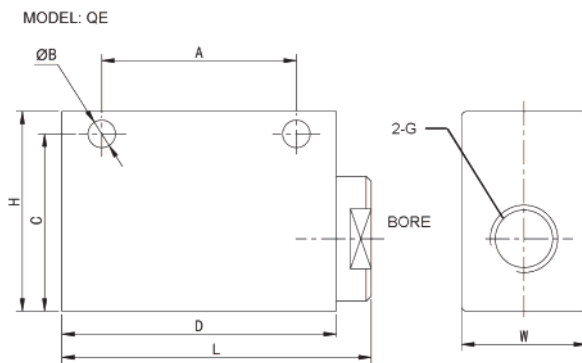


MODEL: 4F210G-1/4



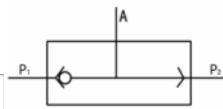
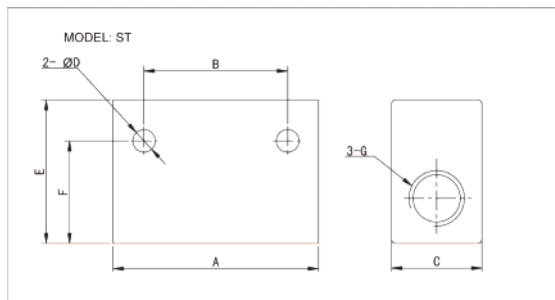
Unit in (mm)

Quick Exhaust Valve

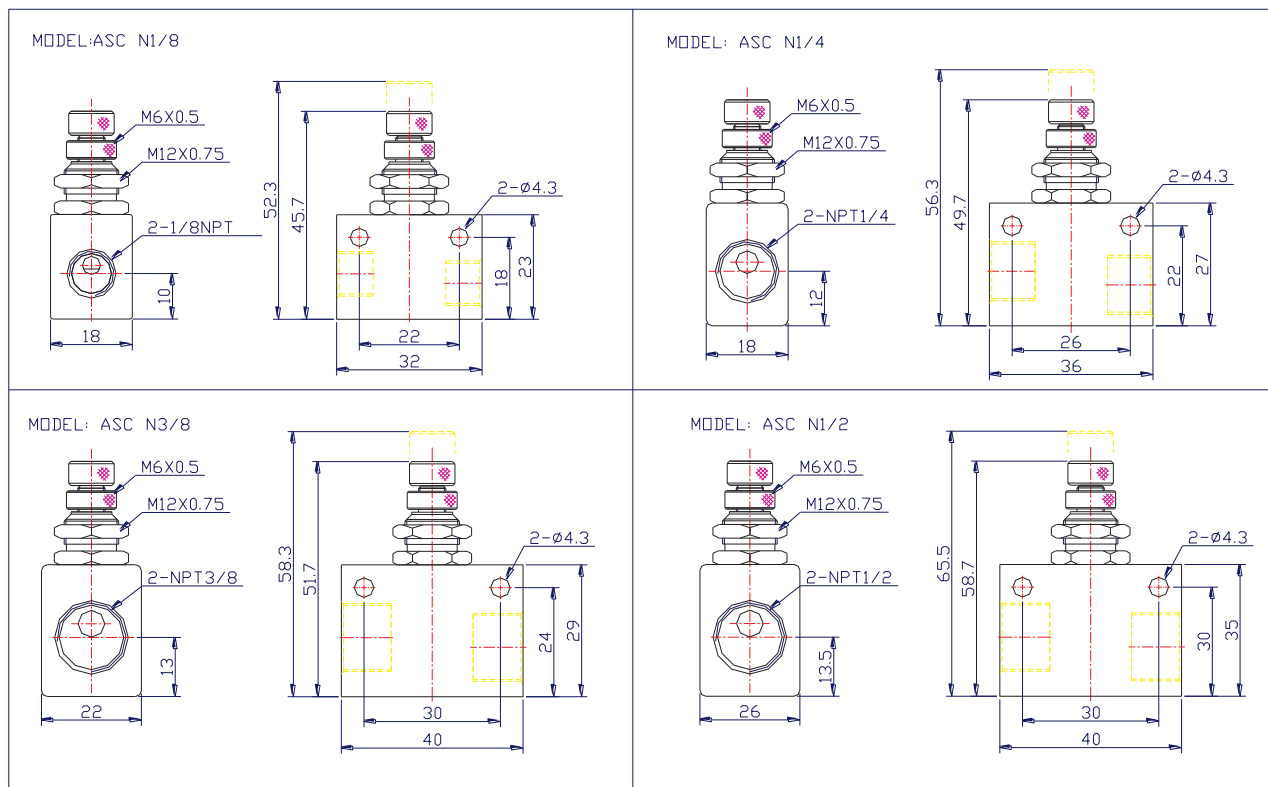


Quick Exhaust Valve (MM)										
	Bore (NPT)	G (NPT)	L	W	H	A	B	C	D	Cv
QE-01	1/4	1/8	46	20	32	30	4.3	27.0	40	1.0
QE-02	3/8	1/4	62	25	40	39	5.6	33.5	55	1.3
QE-03	1/2	3/8	62	25	40	39	5.6	33.5	55	1.4
QE-04	3/4	1/2	98	38	64	60	8.5	51.0	90	4.0
QE-06	1	3/4	98	38	64	60	8.5	51.0	90	4.1

Shuttle Valve



SHUTTLE VALVE (MM)								
	A	B	C	D	E	F	G (NPT)	Cv
ST-01	40	24	16	4.5	25	21	1/8	0.35
ST-02	50	35	22	5.5	35	25	1/4	1.0
ST-03	75	48	30	7.0	50	42	3/8	2.0
ST-04	75	48	30	7.0	50	42	1/2	3.5
ST-06	110	72	40	7.0	70	58	3/4	6.0
ST-08	110	72	40	7.0	70	58	1	100.



Unit in (mm)



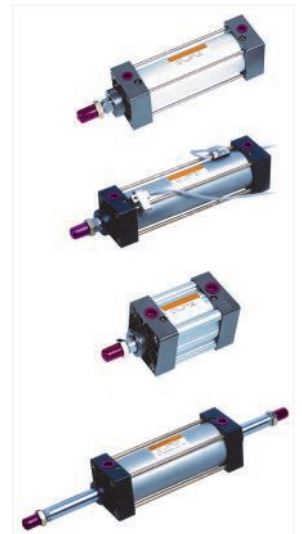
Fine Quality



Excellent Prices

Precision Engineered

Advanced Design

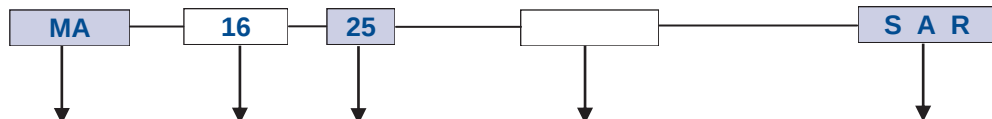


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STC Air Cylinder Numbering System

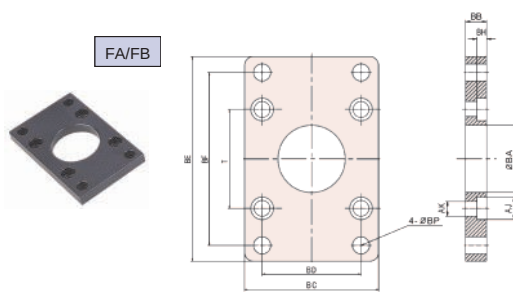
Ordering Part No. =
(eg. MA-6-25-SAR)



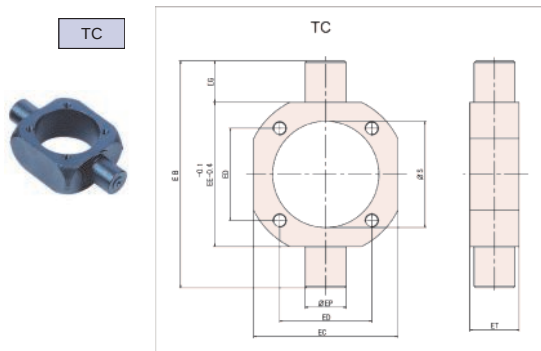
Model	Bore (mm)	Stroke (mm)	Mounting	Options
MA Series Stainless Steel Round Cylinder				
MA = Double Acting MAS = Single Acting MAD = Double Shaft MAJ = Double Shaft with Adjustable Stroke	16 20 25 32 40	25-500	Blank = Front Nose Mount and Back Pivot Mount (Standard) U = Front Nose Mount LB = Foot Mount	S = Magnet for Hall Sensor J = Adjustable Stroke Length (in MM) A = Air Cushion (Bumper Standard) R = Reed Switch 5-240 V (DC/AC) 100 mA 10W
MAL Series Aluminum Round Cylinder				
MAL = Double Acting MAL S = Single Acting MALD = Double Shaft MALJ = Double Shaft with Adjustable Stroke	16 20 25 32 40	25-500		
SC Series Tie-Rod Cylinder				
SC = Double Acting SCA = Single Acting SCD = Double Shaft SCJ = Double Shaft with Adjustable Stroke	32 40 50 63 80 100 125 160 200	25-1000	FA = Front Flange Type	S = Magnet for Hall Sensor J = Adjustable Stroke Length (in MM) A = Air Cushion (Bumper Standard) R = Reed Switch 5-240 V (DC/AC) 100 mA 10W
SU Series Enclosed Tie-Rod Cylinder				
SU = Double Acting SUA = Single Acting SUD = Double Shaft SUJ = Double Shaft with Adjustable Stroke	32 40 50 63 80 100 125 160 200	25-1000	FB = Back Flange CA = Pivot Bracket with Pin CB = Clevis Bracket with Pin LB = Foot Mount TC = Swing Type	S = Magnet for Hall Sensor J = Adjustable Stroke Length (in MM) R = Reed Switch 5-240 V (DC/AC) 100 mA 10W
SDA Series Compact Round Cylinder				
SDA = Double Acting SSA = Single Acting STA = Reverse Acting SDAD = Double Shaft	12 16 20 25 32 40 50 63 80 100	25-1000	TCM = Swinging Type attaching foot seat	

Part No.	Description	Specifications
AL-11R-MA	Reed Switch for MA cylinder	Reed Switch 5-240 V (DC/AC) 100 mA 10W
AL-11R-MAL	Reed Switch for MAL cylinder	
AL-11R-SC	Reed Switch for SC cylinder	
AL-11R-SDA	Reed Switch for SDA cylinder	
AL-11R-SU	Reed Switch for SU cylinder	

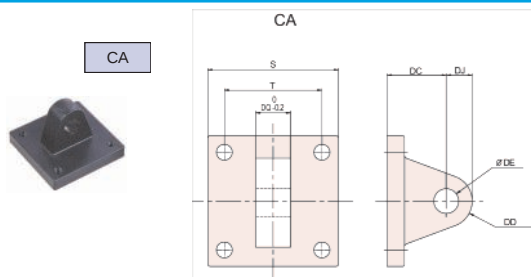
Cylinder Mounting Bracket Dimensions



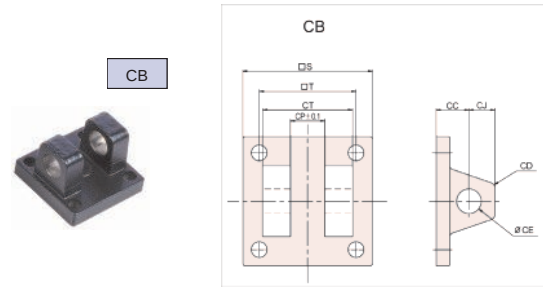
FA/FB (Front or Back Flange)									
Bore	32	40	50	63	80	100	125	160	200
BA	28.3	32.3	38.3	38.3	47.3	47.5	56	63	81
BB	10	10	10	12	16	16	20	25	25
BC	47	52	65	76	95	115	140	180	220
BD	33	36	47	56	70	84	90	115	135
BE	72	84	104	116	143	162	224	280	320
BF	58	70	86	98	119	138	180	230	270
BG	6.5	6.5	6.5	8.5	11	11	15	20	20
BH	11	11	14	14	17	17	19	25	25
AJ	6.5	6.5	8.5	8.5	11	11	13	17	17
BP	7	7	9	9	12	12	16	18	22
T	33	37	47	56	70	84	110	140	175



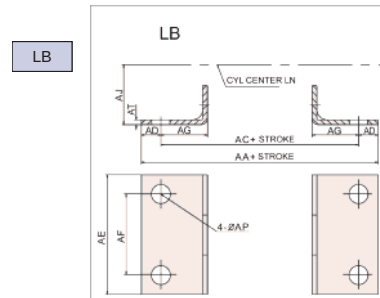
TC (Center Trunnion)									
Bore	40	50	63	80	100	125	160	200	
EB	113	126	138	164	182	210	264	336	
EC	63	76	88	114	132	160	200	240	
ED	37	47	56	70	84	110	140	175	
EE	63	76	88	114	132	160	200	240	
EG	25	25	25	25	25	25	32	48	
EP	25	25	25	25	25	25	32	38	
ET	30	30	30	30	30	30	38	44	
S	46	56	69	88	108	135	173	213	



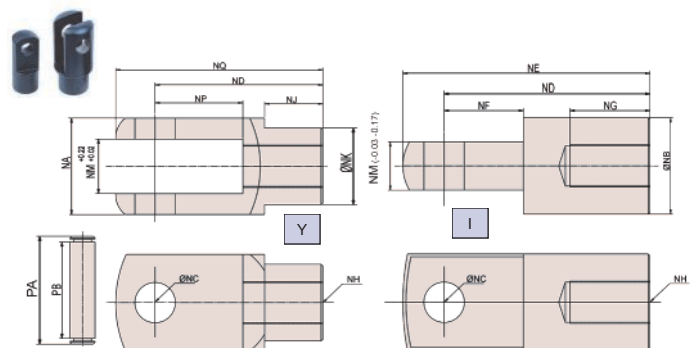
CA (Single Rear Clevis with Pin)									
Bore	32	40	50	63	80	100	125	160	200
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175
DC	34	34	34	48	48	50	55	60	
DD	14	14	15	15	20	20	25	30	30
DE	12	14	14	14	20	20	25	30	30
DL	14	14	15	15	20	20	25	30	30
DQ	16	20	20	20	32	32	70	90	90



CB (Double Rear Clevis Bracket with Pin)									
Bore	32	40	50	63	80	100	125	160	200
CC	19	19	19	19	32	32	50	55	60
CD	5	5	3	3	8	8	25	30	30
CE	12	14	14	14	20	20	25	30	30
CJ	13	13	15	15	21	21	25	30	30
CP	16	21	20	20	32	32	70	90	90
CT	32	44	52	52	64	64	120	160	160
PAI	41	52	60	60	74	74	130	170	170
PBI	34	46	54	54	66	66	122	162	162
S	48	50	62	75	94	112	140	180	220
T	33	37	47	56	70	84	110	140	175



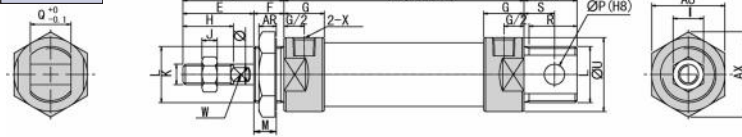
LB (Foot Mount)									
Bore	32	40	50	63	80	100	125	160	200
AA	153	169	173	184	200	210	249	328	380
AC	134	140	149	158	168	174	213	288	320
AD	9.5	15	12	12	16	18	18	20	30
AE	50	57	68	80	97	112	140	180	220
AF	33	36	47	56	70	84	90	115	135
AG	21	24	28	31	30	30	45	60	70
AJ	28	30	37	41	49	57	90	115	135
AP	9	12	12	12	14	14	16	18	22
AT	3.2	3.2	3.2	3.2	4	4	8	8	10



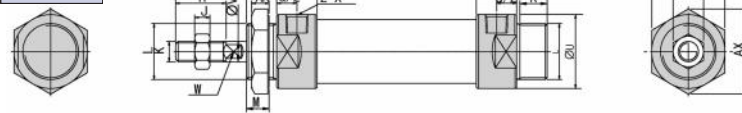
Y (Rod Clevis with Pin), I (Rod Pivot with Pin)															
	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NM	NP	NQ	PA	PB
32	19	20	10	40	52	15	20	M10X1.25	12	18	10	20	52	26	20
40	25	24	12	48	67	24	20	M12X1.25	20	23	12	24	62	33	27
50	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39	33
63	32	32	16	64	89	32	23	M16X1.5	22	30	16	32	83	39	33
80	44	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53	45
100	44	40	20	80	112	40	30	M20X1.5	30	39	20	40	105	53	45

MA Series Stainless Steel Round Cylinder Dimensions

MA-CA



MA-CM

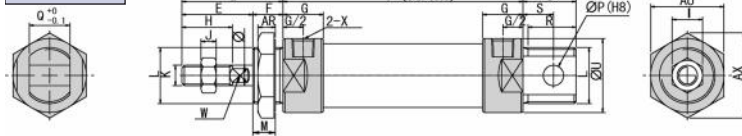


MA-U

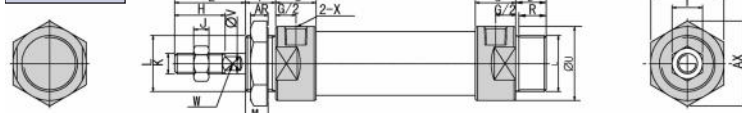


Model: MA																
Bore	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K		
16	114	114	98	38	60	15	15	22	16	10	16	10	5	M6 X 1		
20	137	128	116	40	76	21	12	28	12	16	20	12	6	M8 X 1.25		
25	141	134	120	44	76	21	14	30	14	16	22	17	6	M10 X 1.25		
32	147	134	120	44	76	27	14	30	14	16	22	17	6	M10 X 1.25		
40	149	136	122	46	76	27	14	32	14	16.7	24	17	7	M12 X 1.25		
Bore	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY		
16	M16 X 1.5	14	6	12	14	14	9	21	6	5	M5	6	24	28		
20	M22 X 1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29		
25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29		
32	M24 X 2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32		
40	M30 X 2.0	12	12	20	25	14	15	42	16	14	G1/8	9	47	41		

MSA-CA



MSA-CM



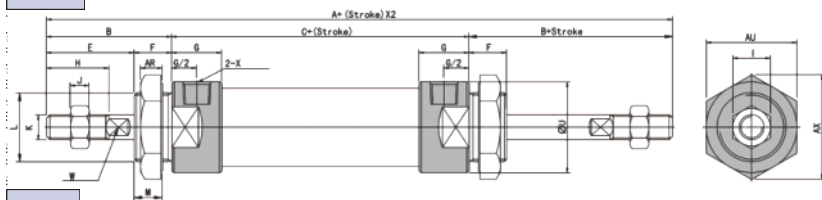
MSA-U



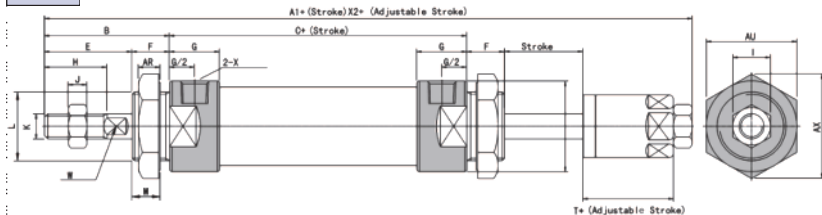
Symbol	A		A1		A2		B	C		D	D1	E	F	G	H	I
Bore	0-50	51-100	0-50	51-100	0-50	51-100		0-50	51-100							
20	137	162	128	153	116	141	40	76	101.0	21	12	28	12	16	20	12
25	141	166	134	159	120	145	44	76	101.0	21	14	30	14	16	22	17
32	147	172	134	159	120	145	44	76	101.0	27	14	30	14	16	22	17
40	149	174	136	161	122	147	46	76	101.0	27	14	32	14	22	24	17

Symbol	J	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
Bore																
20	6	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	27	8	6	G1/8	7	33	29
25	6	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	30	10	8	G1/8	7	33	29
32	6	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	35	12	10	G1/8	8	37	32
40	7	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	41.6	16	14	G1/8	9	47	41

MAD

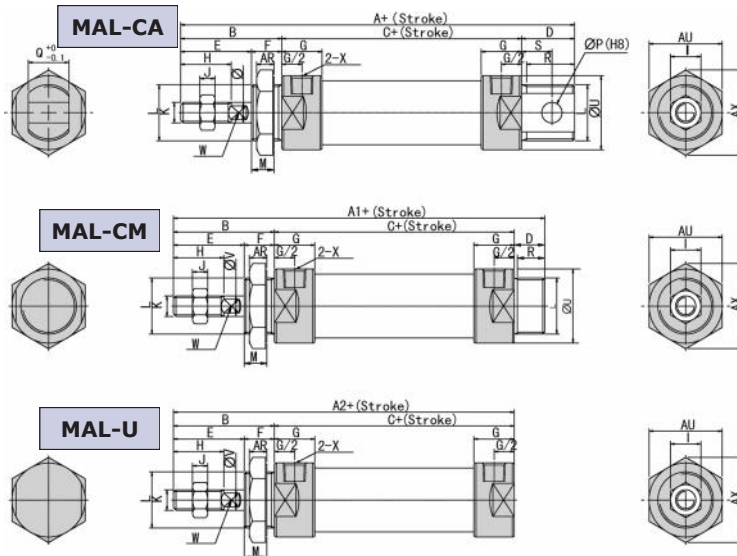


MAJ

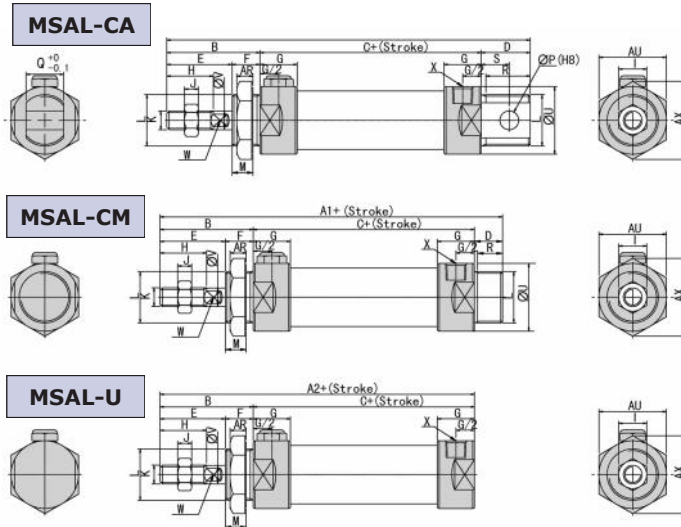


Bore	A	A1	B	C	E	F	G	H	I	J	K
20	156	153	40	70	28	12	16	20	12	6	M8 X 1.25
25	164	161	44	70	30	14	16	22	17	6	M10 X 1.25
32	164	161	44	70	30	14	16	22	17	6	M10 X 1.25
40	168	164	46	92	32	14	22	24	17	7	M12 X 1.25
Bore	L	M	U	V	W	X	AR	AX	AY	T	
20	M22 X 1.5	10	29	8	6	G1/8	7	33	29	19	
25	M22 X 1.5	12	34	10	8	G1/8	7	33	29	21	
32	M24 X 1.5	12	39.5	12	10	G1/8	8	37	32	21	
40	M30 X 2.0	12	49.5	16	14	G1/4	9	47	41	21	

MAL Series Aluminum Round Cylinder Dimensions

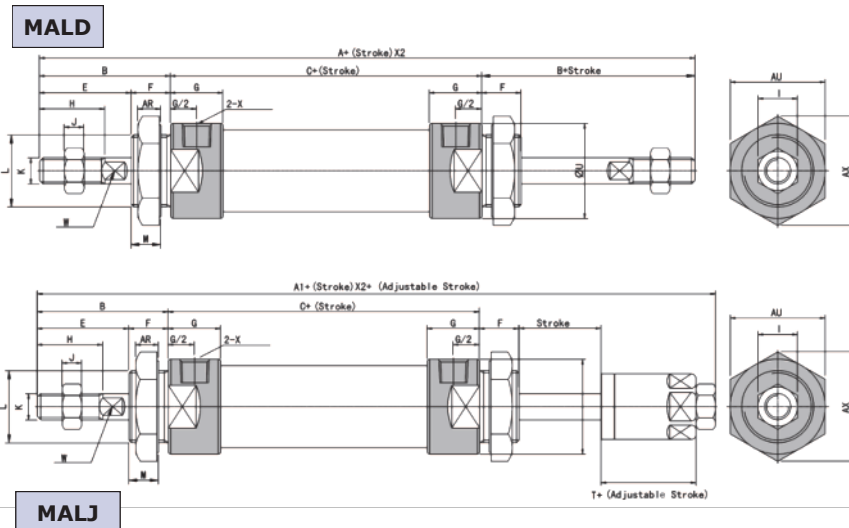


Bore	A	A1	A2	B	C	D	D1	E	F	G	H	I	J	K
16	104	104	90	38	52	15	15	24	14	11	16	10	5	M6 X 1
20	131	122	110	40	70	21	12	28	12	16	20	12	6	M8 X 1.25
25	135	128	114	44	70	21	14	30	14	16	22	17	6	M10 X 1.25
32	141	128	114	44	70	27	14	30	14	16	22	17	6	M10 X 1.25
40	165	152	138	46	92	27	14	32	14	22	24	17	7	M12 X 1.25
Bore	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
16	M16 X 1.5	8	6	12	13	13	6	20	6	/	M5	7	24	28
20	M22 X 1.5	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	M22 X 1.5	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	M24 X 2.0	12	10	16	25	14	15	40	12	10	G1/8	8	37	32
40	M30 X 2.0	12	12	20	25	14	15	50	16	14	G1/4	9	47	41



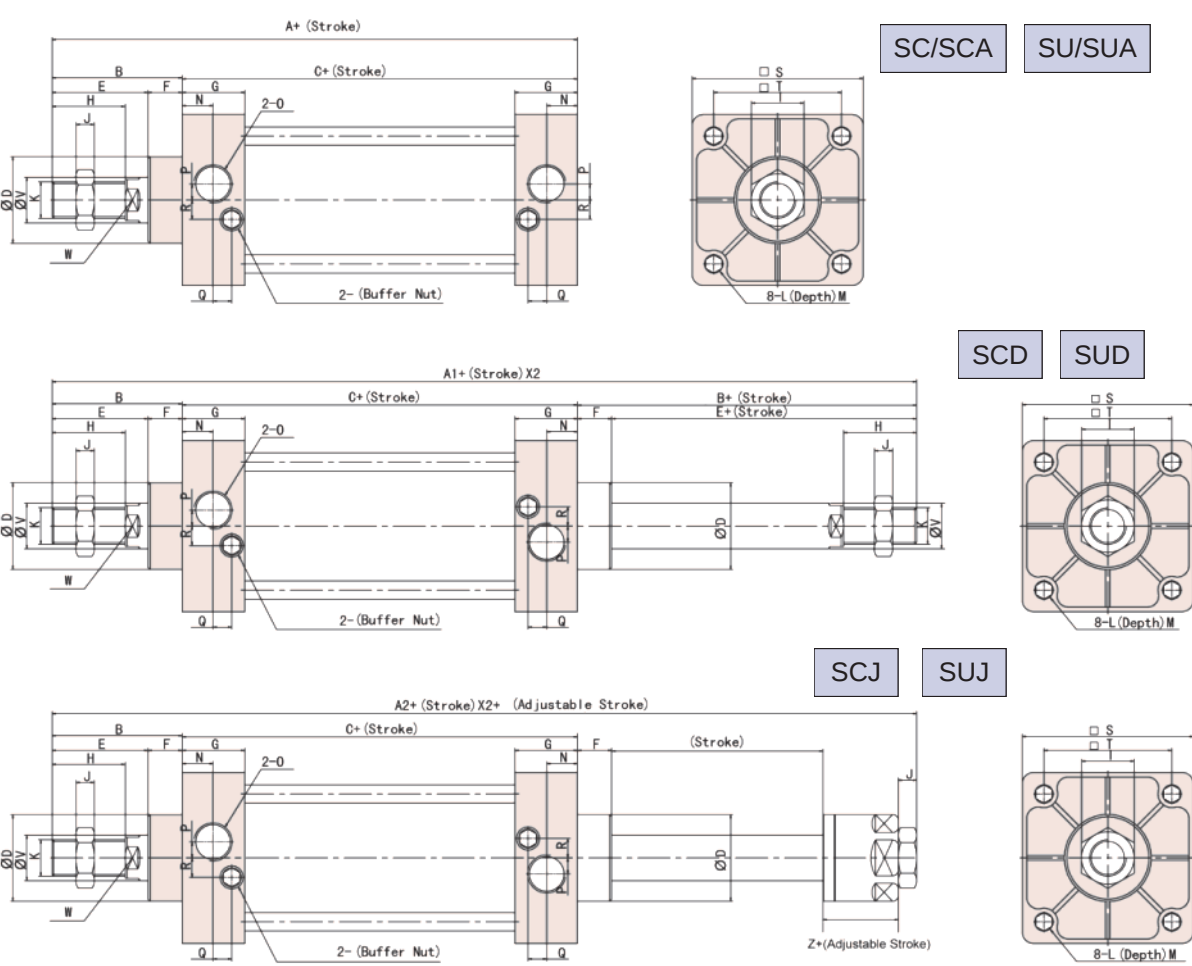
Symbol	A		A1		A2		B		C		D	D1	E	F	G	H	I
Bore	0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100	0-50	51-100							
20	131	156	122	147	110	135	40	70	95	21	12	28	12	16	20	12	
25	135	160	128	153	114	139	44	70	95	21	14	30	14	16	22	17	
32	141	166	128	153	114	139	44	70	95	27	14	30	14	16	22	17	
40	165	190	152	177	138	163	46	92	117	27	14	32	14	22	24	17	

Bore	J	K	L	M	P	Q	R	R1	S	U	V	W	X	AR	AX	AY
20	6	M8 X 1.25	M22 X 1.5	10	8	16	19	12	12	29	8	6	G1/8	7	33	29
25	6	M10 X 1.25	M22 X 1.5	12	8	16	19	14	12	34	10	8	G1/8	7	33	29
32	6	M10 X 1.25	M24 X 2.0	12	10	16	25	14	15	39.5	12	10	G1/8	8	37	32
40	7	M12 X 1.25	M30 X 2.0	12	12	20	25	14	15	49.5	16	14	G1/4	9	47	41



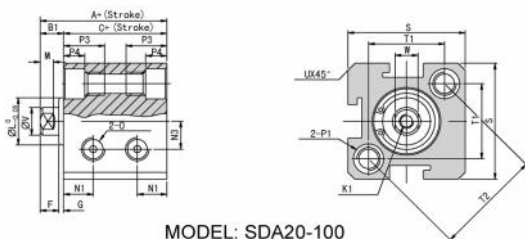
Bore	A	A1	B	C	E	F	G	H	I	J	K
20	131	122	40	70	28	12	16	20	12	6	M8 X 1.25
25	135	128	44	70	30	14	16	22	17	6	M10 X 1.25
32	141	128	44	70	30	14	16	22	17	6	M10 X 1.25
40	165	152	46	92	32	14	22	24	17	7	M12 X 1.25
Bore	L		M	U	V	W	X	AR	AX	AY	T
20	M22 X 1.5		10	29	8	6	G1/8	7	33	29	19
25	M22 X 1.5		12	34	10	8	G1/8	7	33	29	21
32	M24 X 2.0		12	39.5	12	10	G1/8	8	37	32	21
40	M30 X 2.0		12	49.5	16	14	G1/4	9	47	41	21

SC & SU Series Tie Rod Cylinder Dimensions | SDA Series Compact Cylinder Dimensions

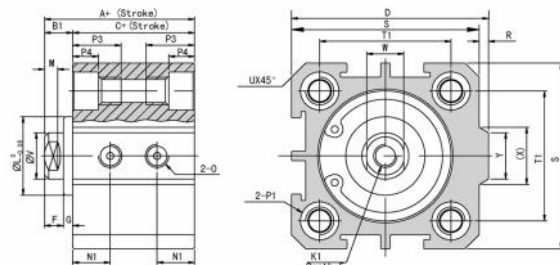


BORE	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	Z
32	140	187	182	47	93	28	32	15	27.5	22	17	6	M10X1.25	M6X1	9.5	13.5	1/8	3.5	7.5	7	45	33	12	12	21
40	142	191	185	48	93	32	34	15	27.5	24	17	7	M12X1.25	M6X1	9.5	13.5	1/4	6	8.2	9	50	37	16	14	21
50	150	207	196	57	93	38	42	15	27.5	32	23	8	M16X1.25	M6X1	9.5	13.5	1/4	8.5	8.2	9	62	47	20	17	23
63	153	210	199	57	96	38	42	15	27.5	32	23	8	M16X1.25	M8X1.25	9.5	13.5	3/8	7	8.2	8.5	75	56	20	17	23
80	183	258	243	75	108	47	54	21	33	40	26	10	M20X1.25	M10X1.5	11.5	16.5	3/8	10	9.5	14	94	70	25	22	29
100	189	264	249	75	114	47	54	21	33	40	26	10	M20X1.25	M10X1.5	11.5	16.5	1/2	11	9.5	14	112	84	25	22	29
125	226	/	/	104	122	55	70	34	33	54	40	10	M27X1.25	M12X1.75	15.5	16.5	1/2	/	/	/	140	110	32	27	/
160	291	/	/	123	168	62	91	32	50	72	55	18	M36X1.25	M16X2	17.5	25	1/2	/	/	/	180	140	40	36	/
200	347	/	/	167	180	80	112	55	50	72	55	18	M36X1.25	M16X2	17.5	25	3/4	/	/	/	220	175	40	36	/

MODEL: SDA12-16



MODEL: SDA20-100



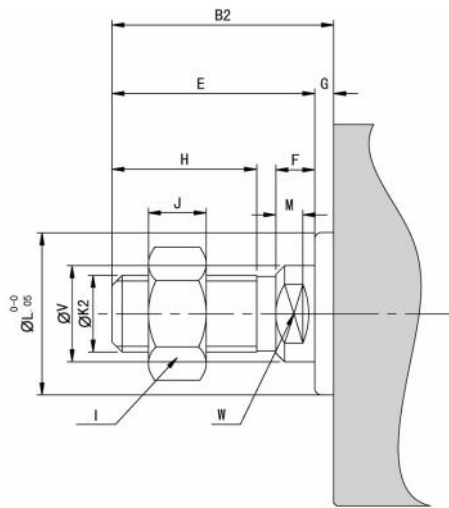
SDA	Standard Type			With Magnet			D	E	F	G	K1	L
Bore	A	B1	C	A	B1	C						
12	22	5	17	32	5	27	-	6	4	1	M3X0.5	10.2
16	24	5.5	18.5	34	5.5	28.5	-	6	4	1.5	M3X0.5	11
20	25	5.5	19.5	35	5.5	29.5	36	8	4	1.5	M4X0.7	16
25	27	6	21	37	6	34	42	10	4	2	M5X0.8	17
32	31.5	7	24.5	41.5	7	34.5	50	12	4	3	M6X1	22
40	33	7	26	43	7	36	58.5	12	4	3	M8X1.25	28
50	37	9	28	47	9	38	71.5	15	5	4	M10X1.5	38
63	41	9	32	51	9	42	84.5	15	5	4	M10X1.5	40
80	52	11	41	62	11	51	104	15	6	5	M14X1.5	45
100	63	12	51	73	12	61	124	18	7	5	M18X1.5	55

Bore	M	N1	N3	O	P1/DIA	P3	P4	R	S	T1	T2	U	V	W	X	Y
12	2.8	6.3	6	M5X0.8	M5X0.8X4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	2.8	7.3	6.5	M5X0.8	M5X0.8X4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	2.8	7.5	-	M5X0.8	M5X0.8X4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	2.8	8	-	M5X0.8	M6X1.0X4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	2.8	9	-	1/8	M6X1.0X4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	2.8	10	-	1/8	M8X1.25X6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16
50	2.8	10.5	-	1/4	M8X1.25X6.5	25	8.5	9.5	62	48	-	4.15	20	17	30	20
63	2.8	11.8	-	1/4	M8X1.25X6.5	25	8.5	9.5	75	60	-	3.15	20	17	28.7	20
80	4	14.5	-	3/8	M12X1.75X9.2	25	10.5	10	94	74	-	3.65	25	22	36	26
100	4	20.5	-	3/8	M12X1.75X11.3	30	13	10	114	90	-	3.65	32	27	35	26

SDA/SSA/STA Series Compact Cylinder Shaft Dimensions

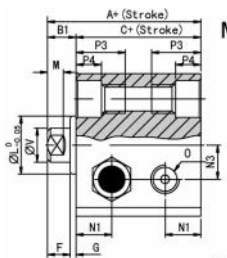


SDA/SSA/STA Series Compact Cylinder Shaft Dimensions

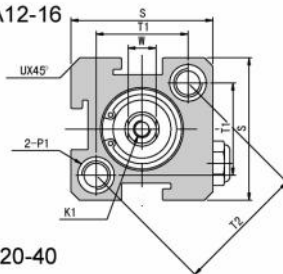


Bore	B2	E	F	G	H	I	J	K2	L	M	V	W
12	17	16	4	1	10	8	4	M5X0.8	10.2	2.8	6	5
16	17.5	16	4	1.5	10	8	4	M5X0.8	11	2.8	6	5
20	20.5	19	4	1.5	13	10	5	M6X1	16	2.8	8	6
25	23	21	4	2	15	12	6	M10X1.25	17	2.8	10	8
32	25	22	4	3	15	17	6	M14X1.5	22	2.8	12	10
40	35	32	4	3	25	19	8	M18X1.5	28	2.8	16	14
50	37	33	5	4	25	27	11	M18X1.5	38	2.8	20	17
63	37	33	5	4	25	27	11	M22X1.5	40	2.8	20	17
80	44	39	6	5	30	32	13	M22X1.5	45	4	25	22
100	50	45	7	5	35	36	13	M26X1.5	55	4	32	27

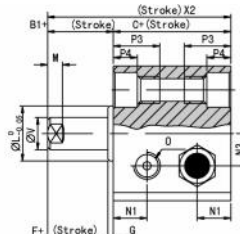
SSA/STA Series Compact Cylinder Dimensions



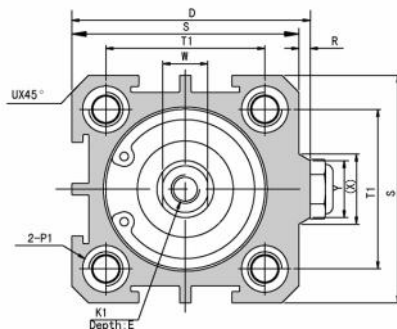
MODEL: SSA12-16



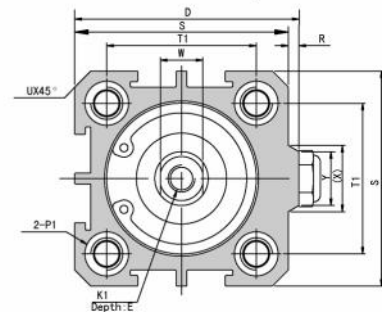
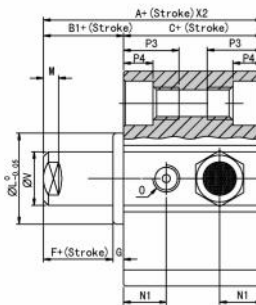
MODEL: STA12-16



MODEL: SSA20-40



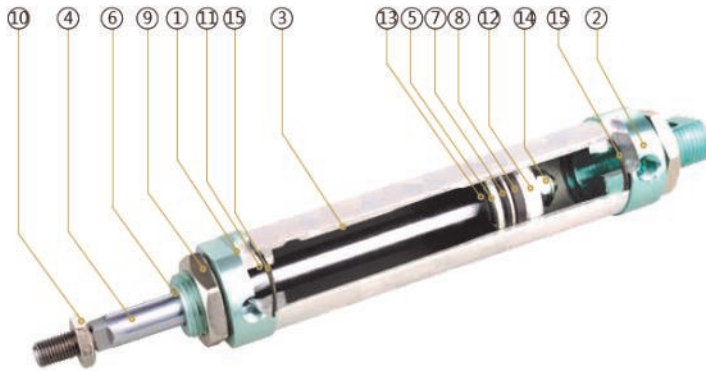
MODEL: STA20-40



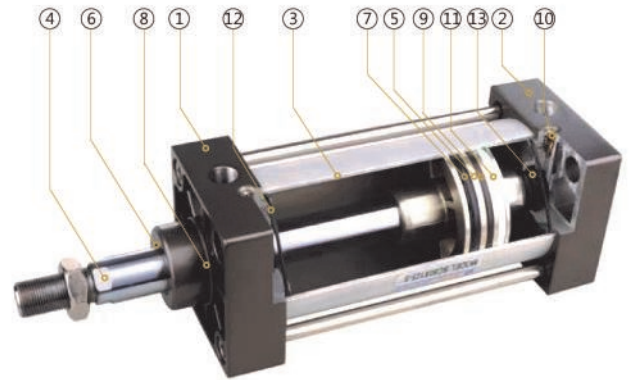
Symbol	Standard Type						With Magnetic Piston																									
Stroke	A		B1	C		A		B1	C		D	E	F	G	K1	L	M	N1	N3	O	P1/Hole Dia.	P3	P4	R	S	T1	T2	U	V	W	X	Y
Bore	≤10	>10		≤10	>10	≤10	>10		≤10	>10																						
12	32	42	5	27	37	42	52	5	37	47	-	6	4	1	M3X0.5	10.2	2.8	6.3	6	M5X0.8	M5X0.8X4.2	12	4.5	-	25	16.2	23	1.6	6	5	-	-
16	34	44	5.5	28.5	38.5	44	54	5.5	38.5	48.5	-	6	4	1.5	M3X0.5	11	2.8	7.3	6.5	M5X0.8	M5X0.8X4.2	12	4.5	-	29	19.8	28	1.6	6	5	-	-
20	35	45	5.5	29.5	39.5	45	55	5.5	39.5	49.5	36	8	4	1.5	M4X0.7	16	2.8	7.5	-	M5X0.8	M5X0.8X4.2	14	4.5	2	34	24	-	2.1	8	6	11.3	10
25	37	47	6	34	41	47	57	6	41	51	42	10	4	2	M5X0.8	17	2.8	8	-	M5X0.8	M6X1.0X4.6	15	5.5	2	40	28	-	3.1	10	8	12	10
32	41.5	51.5	7	34.5	44.5	51.5	61.5	7	44.5	54.5	50	12	4	3	M6X1	22	2.8	9	-	1/8	M6X1.0X4.6	16	5.5	6	44	34	-	2.15	12	10	18.3	15
40	43	53	7	36	46	53	63	7	46	56	58.5	12	4	3	M8X1.25	28	2.8	10	-	1/8	M8X1.25X6.5	20	7.5	6.5	52	40	-	2.25	16	14	21.3	16

SEE TOP OF PAGE FOR SHAFT DIMENSIONS

MA/MAL Internal Components



SC/SU Internal Components



Item	Name	MA Series Cylinder Material	MAL Series Cylinder Material	Quantity
1	Front Cover	Hard Anodized Aluminum	Hard Anodized Aluminum	1
2	Back Cover	Hard Anodized Aluminum	Hard Anodized Aluminum	1
3	Barrel	Stainless Steel	Hard Anodized Aluminum	1
4	Piston Rod	Chromed Carbon Steel	Chromed Carbon Steel	1
5	Piston	Aluminum	Aluminum	1
6	Piston Rod Seal	NBR	NBR	1
7	Piston Seal	NBR	NBR	1
8	Magnet	Ferric Magnet	Ferric Magnet	1
9	Front & Rear Cover	Carbon Steel	Carbon Steel	1
10	Piston Rod Screw	Carbon Steel	Carbon Steel	1
11	Bearing	Non-Lube Bearing	Non-Lube Bearing	1
12	Anti-Friction Ring	PTFE	PTFE	1
13	Cushioning Gasket	NBR	NBR	2
14	Fixing Screw	Carbon Steel	Carbon Steel	1
15	Cover Seal	NBR	NBR	2

Item	Name	Material	Quantity
1	Front Cover	Polymer Coated Aluminum	1
2	Back Cover	Polymer Coated Aluminum	1
3	Cylinder Barrel	Anodized Aluminum	1
4	Piston Rod	Chromed Carbon Steel	1
5	Piston	Aluminum	1
6	Piston Rod Seal	NBR	1
7	Piston Seal	NBR	2
8	Bearing	Non-Lube Bearing	1
9	Magnet	Ferric Magnet	1
10	Cushion Screw	Brass	2
11	Anti-Friction Ring	PTFE	1
12	End Cap Seal	NBR	2
13	Cushion Seal	NBR	2

MA/MAL Round Cylinder Technical Data

Bore (mm)	12	16	20	25	32	40
Motion Pattern	Double Action/Single Action					
Working Medium	Air					
Fixed Type	Basic Type/LB Type/FA Type/SDB Type					
Operating Pressure	Double Acting: 14 to 130 PSI (1.0~9.0 bar); Single Acting: 29 to 130 PSI (2.0~9.0 bar)					
Ensured Pressure Resistance	195 PSI (13.5bar)					
Operating Temperature	0 to 70 °C					
Operating Speed	50 ~ 800mm/s					
Buffer Type	Spacer Buffer	Adjustable Buffer (MA and MAL only have spacer buffer)				
Port Size	M5x0.8		G 1/8			G 1/4

SU/SC Cylinder Technical Data

Bore (mm)	32	40	50	63	80	100	125	160	200
Motion Pattern	Double Action								
Working Medium	Air								
Fixed Type	Basic / LB / FA / CA / CB / TC / TC-M Type								
Operating Pressure	14 to 130 PSI (1.0~9.0bar)								
Ensured Pressure Resistance	195 PSI (13.5bar)								
Operating Temperature	0 to 70 °C								
Operating Speed	50 ~ 800mm/s								
Cushioning Length	20			26			45		
Port Size	G 1/8"	G 1/4"		G 3/8"		G 1/2"		G 3/4"	

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Sizto Tech Corporation

892 Commercial Street
Palo Alto, CA 94303 USA
Tel: 650-856 8833 | Fax: 650-856 8811
Email: Sales@StcValve.com; www.StcValve.com