

BMT FLUID COMPONENTS

SUPERLOK®



STV SERIES TOGGLE VALVES

QUALITY, VALUE AND INNOVATION.



BMTsuperlok.com

Toggle Valves

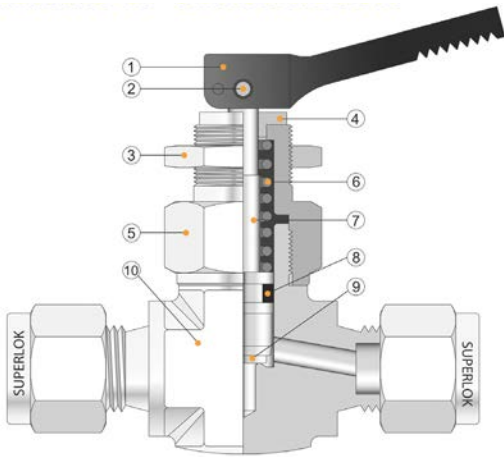
STV Series

Features

- Compact design.
- Quick acting.
- Orifice sizes from 0.080 to 0.250 in. (2.0 to 6.4 mm)
- Flow coefficients (Cv) from 0.11 to 0.70.
- Straight, angle flow patterns.
- SUPERLOK tube fitting, male and female NPT and a variety of end connections available.
- Every valve is factory tested.



Materials of Construction



NO.	COMPONENT	MATERIAL
1	HANDLE	Nylon
2	ROLL PIN	Stainless Steel 304
3	LOCK NUT	A276-316
4	HANDLE WASHER	Nylon
5	PACKING NUT	A276-316
6	SPRING	Stainless Steel
7	STEM	A276-316
8	O-RING	Viton
9	STEM TIP	PTFE
10	BODY	A182-F316

Ordering Information

Example:

STV2 - M 4N - N - B

1
2
3
4
5

1. Valve Type

Straight Type

- STV1 : Orifice 2mm
- STV2 : Orifice 3.2mm
- STV3 : Orifice 6.4mm

Angle Type

- STV1A : Orifice 2mm
- STV2A : Orifice 3.2mm
- STV3A : Orifice 6.4mm

4. O-Ring Material

- Blank : Viton
- N : NBR
- K : Kalez

2. Port Type

- S : SUPERLOK Tube Fitting
- M : Male Pipe Thread
- F : Female Pipe Thread

5. Body Material

- Blank : 316 Stainless Steel
- B : Brass

3. Port Size

Pipe Thread Designation

Size (in.)	1/8	1/4
ISO Tapered	2R	4R
NPT	2N	4N

Tube O.D Designation

Tube O.D (in.)	1/8	1/4	3/8	1/2
Designation	2	4	6	8
Tube O.D (mm)	3	6	10	12
Designation	3M	6M	10M	12M

CRYOGENIC VALVES

Technical Data

Series	Orifice in.(mm)	Pressure - Temperature Rating	
		Temperature °F(°C)	Working Pressure psig (bar)
STV1	0.080 (2.0)	-20 to 200°F (-28 to 93°C)	300 psig (20.6 bar)
STV2	0.125 (3.2)		
STV3	0.250 (6.4)		200 psig (13.7 bar)

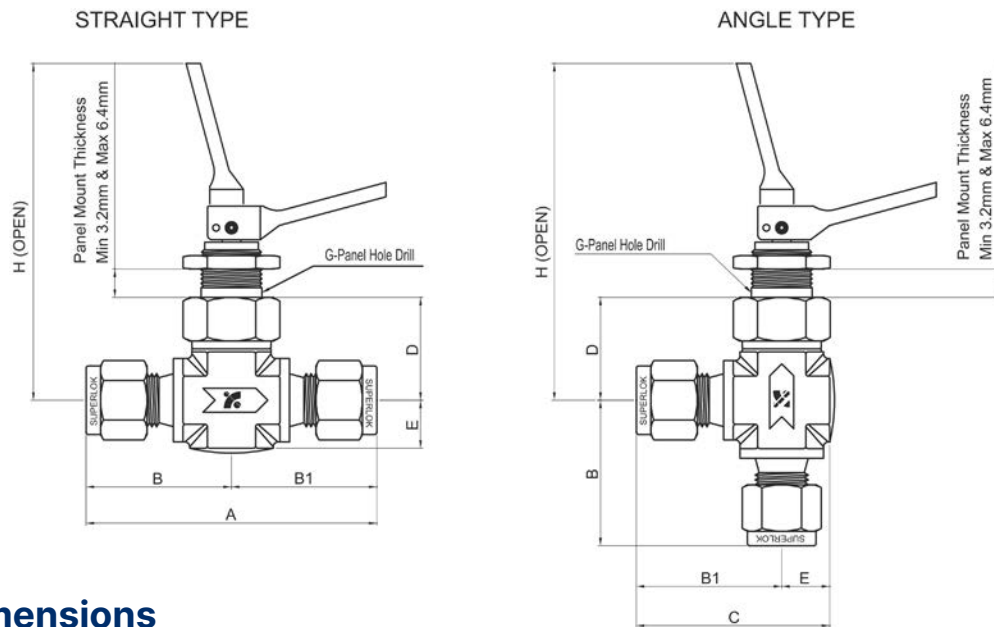


Table of Dimensions

Part Number	Orifice	Cv	End Connections		Dimensions								
			Inlet	Outlet	A	B	B1	C	D	E	G	H	
STV1	M2N	2.0	0.11	1/8" Male NPT		38.1	19.0	19.0	27.0	23.4	7.9	13.5	72.9
	M2N-S2			1/8" Male NPT	1/8" Superlok	43.9	19.0	19.0	32.8				
	S2			1/8" Superlok		49.8	24.9	24.9	32.8				
	S3M			3mm Superlok		49.8	24.9	24.9	32.8				
STV2	F2N	3.2	0.2	1/8" Female NPT		41.4	20.6	20.6	30.2	21.8	9.5	13.5	71.4
	M2N			1/8" Male NPT		43.7	21.8	21.8	31.2				
	M4N			1/4" Male NPT		49.8	24.9	24.9	34.5				
	M4N-S4			1/4" Male NPT	1/4" Superlok	53.6	24.9	24.9	38.1				
	M2N-F2N			1/8" Male NPT	1/8" Female NPT	41.4	20.6	20.6	30.2				
	S4			1/4" Superlok		57.4	28.7	28.7	38.1				
	S6M			6mm Superlok		57.4	28.7	28.7	38.1				
	S8M			8mm Superlok		56.4	28.2	28.2	37.6				
STV3	F4N	6.4	0.7	1/4" Female NPT		53.8	26.9	26.9	39.6	26.9	12.7	16.8	90.4
	M6N			3/8" Male NPT		57.2	28.4	28.4	41.1				
	S6			3/8" Superlok		65.5	32.8	32.8	45.5				
	S8			1/2" Superlok		71.7	35.6	35.6	48.9				
	S10M			10mm Superlok		69.1	34.5	34.5	47.2				
	S12M			12mm Superlok		74.2	37.1	37.1	49.8				

- All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.
- Dimensions shown with SUPERLOK ends are measured with nuts in the finger tight position.
- ISO Tapered Threads are available upon request.

OTHER PRODUCTS



Superlok Tube Fittings

High quality dual and single ferrule Tube fittings for the most reliable tube connections. Our tube fitting are available in a broad range of sizes, materials and configurations.



Valves

A full range of instrument ball valves, needle valves, check valves and relief valves. Our instrument valves are available in multiple configurations, end connection sizes and materials.



Tubing

High quality stainless steel and exotic alloy tubing for industrial process and instrumentation. We proudly represent Alleima (Sandvik), the world leader in development of stainless steels and advanced alloys for industry.



UHP Fittings & Valves

Ultra-High Purity fittings & valves are used to connect tubing in industries that require extremely clean and contaminant-free systems. The process involves electro-polishing and ultrasonic cleaning with deionized water.

Unmatched PERFORMANCE & RELIABILITY

CONTACT US

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