

TOGGLE VALVES

STV Series

FEATURES

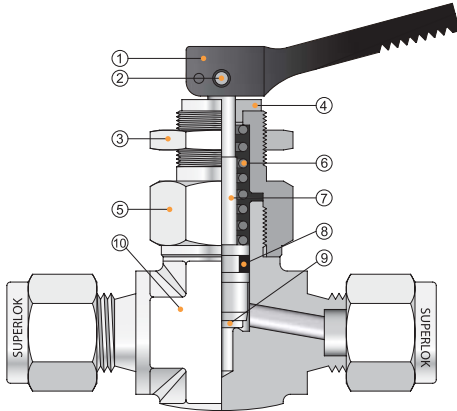
- Compact design.
- Quick acting.
- Orifice sizes from 0.080 to 0.250 in.(2.0 to 6.4 mm).
- Flow coefficients (Cv) from 0.11 to 0.70.
- Straight, angle flow patterns.
- **SUPERLOK** tube fitting, male and female NPT, and Combination of end connections.
- Each and every valve is tested at the factory.



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)	300psig(20.6bar)
STV2	0.125(3.2)		
STV3	0.250(6.4)		200psig(13.7bar)

MATERIALS OF CONSTRUCTION



No.	Component	Material
1	Handle	Nylon
2	Roll Pin	SS304
3	Lock Nut	SS316
4	Handle Washer	Nylon
5	Packing Nut	SS316
6	Spring	Stainless Steel
7	Stem	SS316
8	O-Ring	Viton
9	Stem Tip	PTFE
10	Body	SS316

ORDERING INFORMATION

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

2. Port Type

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

4. O-Ring Material

- Nil: Viton
- N: NBR
- K: Kalez

3. Port Size

- Pipe Thread Designation

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

- Tube O.D Designation

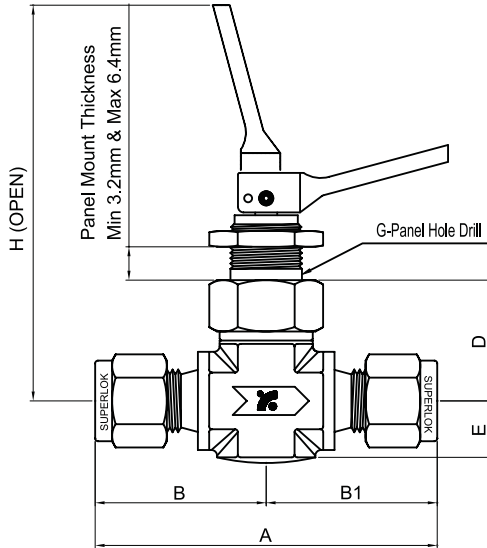
Tube O.D (inch)	1/8	1/4	3/8	1/2
Designation	2	4	6	8
Tube O.D (mm)	3	6	10	12
Designation	3M	6M	10M	12M

5. Body Material

- Nil: 316 Stainless Steel
- B: Brass

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STRAIGHT TYPE



ANGLE TYPE

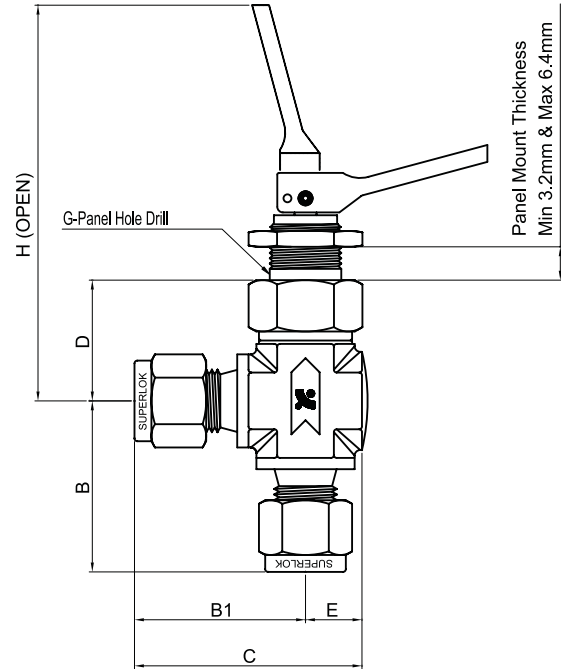


TABLE OF DIMENSIONS

Part Number		Orifice (mm)	Cv	End Connection		Dimensions (mm)							
				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	24.9	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	28.7	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				

Dimension, shown on the above table, are measured with SUPERLOK nut in the finger-tight where applicable .
All dimension are for reference only, subject to change.