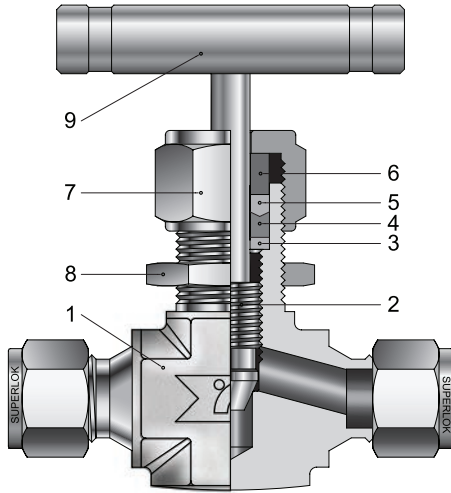


Testing

- Each and every valve is tested with nitrogen at 1000psig (69bar).
- Valve have max allowable leak rate of 0.1cm3/min.
- Shell testing is performed on demand.

Materials of Construction






Round knob handle

No.	Component	Material		
		Stainless Steel	Brass	Alloy 400
*1	Body	ASTM A182 F316	ASTM B283	ASTM B564
*2	Vee stem	ASTM A276 Type316	ASTM A276 Type316	ASTM B164
	Regulating stem	ASTM A276 Type316	ASTM A276 Type316	ASTM B164
	Soft seat stem	ASTM A276 Type316 + PCTFE	ASTM A276 Type316 + PCTFE	ASTM A276 Type316 + PCTFE
*3	Packing support	ASTM A276 Type316	ASTM B16	ASTM B164
*4	Lower packing	PTFE	PTFE	PTFE
*5	Upper packing	PTFE	PTFE	PTFE
6	Packing gland	ASTM A276 Type316	ASTM B16	ASTM B164
7	Packing nut	ASTM A276 Type316	ASTM B16	ASTM B164
8	Panel nut	ASTM A276 Type316	ASTM B16	ASTM B164
9	Bar handle	ASTM A276 Type304		
	Round knob handle	Phenolic with brass insert		
	Set screw	Stainless Steel		

Wetted components are marked "*"

Stem Type

Vee Stem(Standard)		Regulating Stem		Soft Seat Stem	
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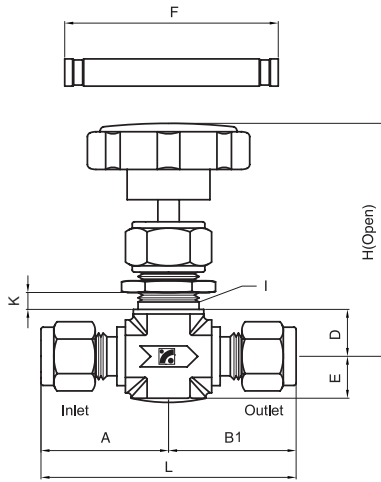
Packing

PTFE packing is standard. PEEK packing is optional.

Handle

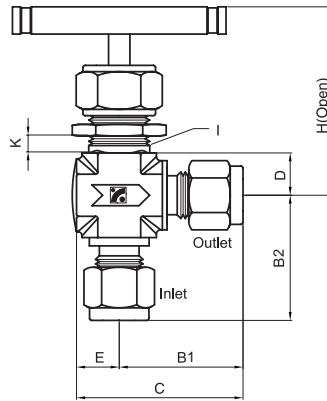
- 316 stainless steel and alloy 400 body valve - Stainless steel bar handles are standard.
- Brass body and Soft seat stem valve - Black round knob handles are standard.
- Anodized black aluminum bar handles are optional.

SINV Series



Straight Flow Pattern

SINV A Series



Angle Flow Pattern

I : Panel Hole Drill

K : Panel Mount Thickness
Min 3.17, Max 6.35

Table of dimensions

Part Number	Orifice	Cv	End Connections		Dimensions										
			Inlet	Outlet	L	A	B1	B2	C	D	E	F	I	H	
SINV1	S2	2.0	0.09	1/8" SUPERLOK		49.4	24.7	24.7	24.7	32.6	11.2	7.9	32.0	11.9	55
	S3M			3mm SUPERLOK		49.4	24.7	24.7	24.7	32.6					
	M2N			1/8" Male NPT		38.1	19.1	19.1	19.1	27.0					
	F2N			1/8" Female NPT		47.8	23.9	23.9	23.9	31.8					
	M2N-S2			1/8" Male NPT	1/8" SUPERLOK	43.8	19.1	24.7	19.1	32.6					
SINV2	S4	4.4	0.37	1/4" SUPERLOK		57.4	28.7	28.7	28.7	38.4	11.2	9.7	45.0	13.5	51.5
	S6M			6mm SUPERLOK		57.4	28.7	28.7	28.7	38.4					
	S8M			8mm SUPERLOK		59.4	29.7	29.7	29.7	39.4					
	M2N			1/8" Male NPT		41.2	20.6	20.6	20.6	30.3					
	M4N			1/4" Male NPT		49.8	24.9	24.9	24.9	34.6					
	M4N-S4			1/4" Male NPT	1/4" SUPERLOK	53.6	24.9	28.7	24.9	38.4					
SINV3	S6	6.3	0.73	3/8" SUPERLOK		65.6	32.8	32.8	32.8	45.5	12.7	12.7	64.0	20.0	63.5
	S8			1/2" SUPERLOK		71.2	35.6	35.6	35.6	48.3	14.0				
	S10M			10mm SUPERLOK		66.0	33.0	33.0	33.0	45.7	12.7				
	S12M			12mm SUPERLOK		71.2	35.6	35.6	35.6	48.3	14.0				
	M6N			3/8" Male NPT		57.4	28.7	28.7	28.7	41.4	12.7				
	F4N			1/4" Female NPT		53.8	26.9	26.9	26.9	39.6	12.7				
	M4N-S6			1/4" Male NPT	3/8" SUPERLOK	61.5	28.7	32.8	28.7	45.5	12.7				
	M6N-S6			3/8" Male NPT	3/8" SUPERLOK	61.5	28.7	32.8	28.7	45.5	12.7				
	M6N-S8			3/8" Male NPT	1/2" SUPERLOK	64.3	28.7	35.6	28.7	48.3	14.0				
	M4N-F4N			1/4" Male NPT	1/4" Female NPT	55.6	28.7	26.9	28.7	39.6	12.7				
SINV4	S8	9.5	1.80	1/2" SUPERLOK		96.6	48.3	48.3	48.3	67.4	19.1	19.1	76.0	26.2	99.5
	S12			3/4" SUPERLOK											
	M8N			1/2" Male NPT		76.2	38.1	38.1	38.1	57.2					
	F6N			3/8" Female NPT											
	F8N			1/2" Female NPT											
	M8N-F8N			1/2" Male NPT	1/2" Female NPT										

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change.
• Dimensions based on SUPERLOK nuts finger-tight.

Ordering Information

Example : **SINV3 - M6N - S8 - RS - PE - KH - SS**

1
2
3
2 3
4
5
6
7

1. Valve Series

Straight Flow Pattern

SINV1 : Orifice 2.0mm
 SINV2 : Orifice 4.4mm
 SINV3 : Orifice 6.3mm
 SINV4 : Orifice 9.5mm

Angle Flow Pattern

SINV1A : Orifice 2.0mm
 SINV2A : Orifice 4.4mm
 SINV3A : Orifice 6.3mm
 SINV4A : Orifice 9.5mm

2. End Connection Type

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

3. End Connection Size

Pipe Thread Designation

Size (inch)	1/8	1/4	3/8	1/2	3/4
Screwed NPT	2N	4N	6N	8N	12N
Screwed BSPT	2R	4R	6R	8R	12R

Tube O.D Designation

Tube O.D (inch)	1/16	1/8	1/4	3/8	1/2	3/4
Designation	1	2	4	6	8	12

Tube O.D (mm)	3	6	8	10	12	16
Designation	3M	6M	8M	10M	12M	16M

4. Stem

Blank : Vee Stem (Standard)
 RS : Regulating Stem
 SS : Soft Seat Stem

5. Packing

Blank : PTFE Packing (Standard)
 PE : PEEK Packing

6. Handle

Blank : Stainless Steel Bar Handle (Standard)
 KH : Black Round Knob Handle
 AH : Anodized Black Aluminum Bar Handle

7. Body Material

SS (Blank) : 316 Stainless Steel
 B : Brass
 M40 : Alloy 400 (Monel)

Examples

ex1) SINV2 - S4 - SS

Straight flow pattern, Orifice 4.4mm/ Inlet: SUPERLOK 1/4" / Outlet: SUPERLOK 1/4" / Vee stem / PTFE Packing
 Stainless steel bar handle / 316 Stainless steel body

ex2) SINV3A - M4N - S6 - RS - PE - KH - SS

Angle flow pattern, Orifice 6.3mm/ Inlet: 1/4"NPT Male / Outlet: SUPERLOK 3/8" / Regulating stem / PEEK Packing
 Black round knob handle / 316 Stainless steel body

ex3) SINV4 - M8N - F8N - KH - B

Straight flow pattern, Orifice 9.5mm/ Inlet: 1/2"NPT Male / Outlet: 1/2"NPT Female / Vee stem
 PTFE Packing / Black round knob handle / brass body