

One-Piece Check Valves

SOCV SERIES

Features

- One-piece Body
- Working pressure up to 3000 psig (206bar)
- Temperature rating up to 375°F (190°C) with viton seal standard.
- Cracking pressure fixed from 1/3 to 25psig (0.02 to 1.7 bar)
- NPT and ISO pipe end connections
- 316 stainless steel and brass materials
- Each and every valve is tested at the factory.

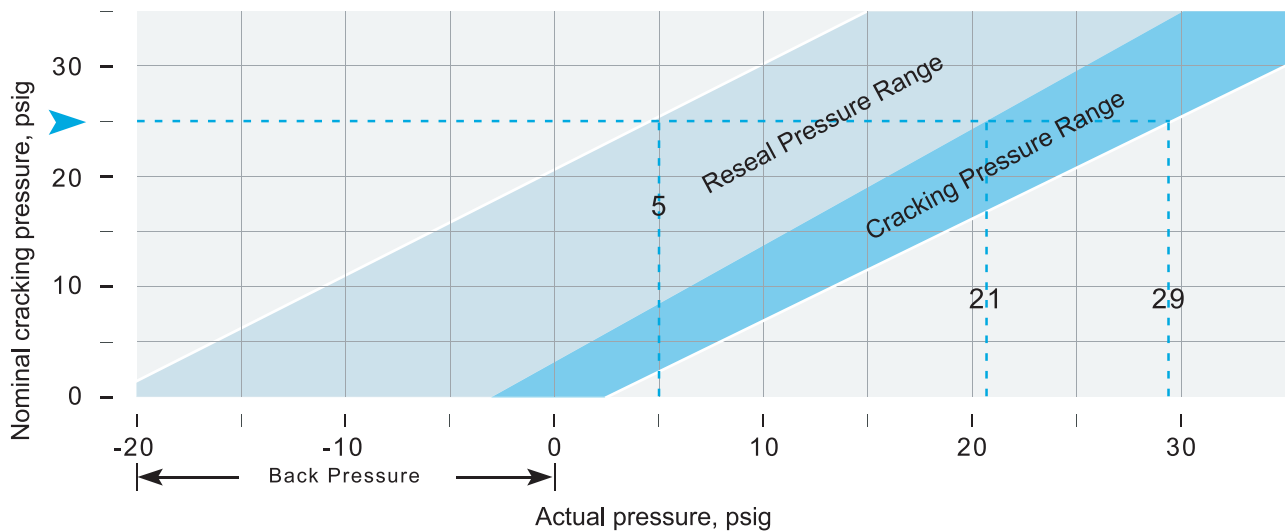


Technical Data

Nominal Cracking Pressure	1/3, 1, 10 and 25psig (0.02, 0.06, 0.68, 1.7bar)
Maximum Working Pressure at 70°F (20°C)	3000psig (206bar)
Maximum Back Pressure at 70°F (20°C)	3000psig (206bar)
Flow Coefficient (Cv)	SOCV1 / SOCV2 : 0.35 SOCV3 / SOCV4 : 1.20
Temperature Rating	VITON O-ring : -10°F to 375°F (-23°C to 190°C) NBR O-ring : -10°F to 250°F (-23°C to 121°C) (add "N" to the end of ordering number)

Cracking Pressure and Reseal Pressure

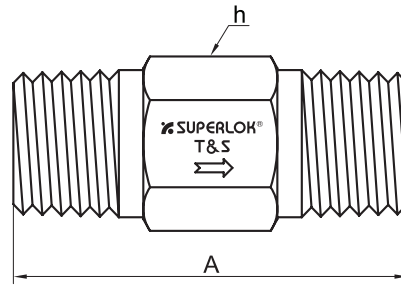
SOCV Series Valves with nominal cracking pressure of 20 psig (1.3 bar) or lower may require back pressure to reseal bubble-tight.



Testing

All valves are factory tested for cracking pressure and reseal performance.

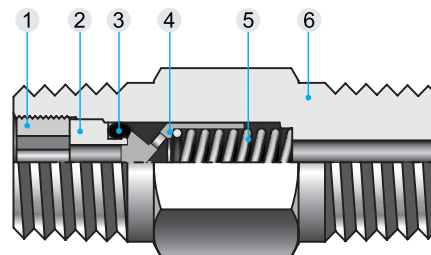
Table of Dimensions



Part Number	End Connection		A	h Hex mm (in.)
	Inlet	Outlet		
SOCV1	M4N	1/4 Male NPT	41.2	14.3 (9/16)
	M4R	1/4 Male ISO		
SOCV2	F4N	1/4 Female NPT	61.2	19.1 (3/4)
	F4R	1/4 Female ISO	64.5	
	M4N-F4N	1/4 Male NPT	44.5	
	F4N-M4N	1/4 Female NPT	58.2	
SOCV3	M8N	1/2 Male NPT	57.9	22.2 (7/8)
SOCV4	F8N	1/2 Female NPT	94.2	26.9 (1-1/16)
	M8N-F8N	1/2 Male NPT	71.9	

• All dimensions in millimeters unless specified as "inch". Dimension are for reference only, subject to change

Materials of Construction



No.	Component	Valve Body Materials	
		Stainless Steel	Brass
1	Insert Lock Screw	316SS / A276	Brass
2	Insert	316SS / A276	Brass
3	O-Ring	VITON	NBR
4	Poppet	316SS / A276	Brass
5	Spring	SS304	
6	Body	316SS / A276	Brass

Ordering information

Example : **SOCV1 - M 4N - 1P - SS**

1
2
3
4
5

- 1 : Valve Series 2 : End Connection Type 3 : Connection Size
- 4 : Cracking Pressure Designator(0.3P : 1/3psig, 1P : 1psig, 10P : 10psig, 25P : 25psig)
- 5 : Body Material Designator [SS : 316 stainless steel(standard), B : Brass]