

# ONE-PIECE CHECK VALVES

## SOCV SERIES



### Features

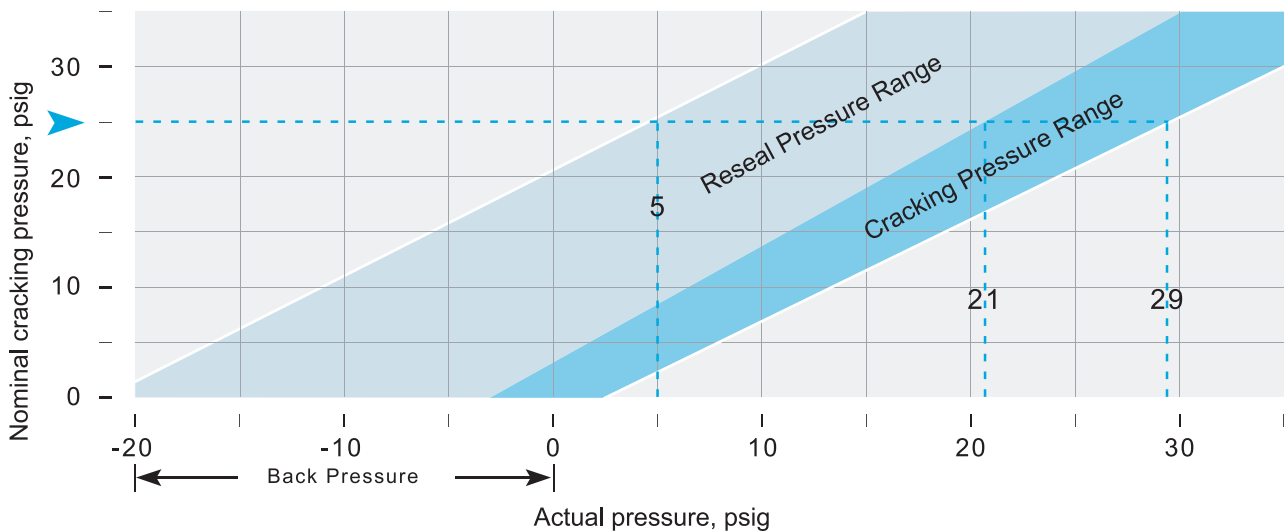
- One-piece Body
- Working pressure up to 3000 psig (206bar)
- Temperature rating up to 375 °F (190°C) with viton seal standard.
- Cracking pressure fixed from 1/3 to 25psig (0.02 to 1.7 bar)
- NPT and ISO pipe end connections
- 316 stainless steel and brass materials
- Each and every valve is tested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

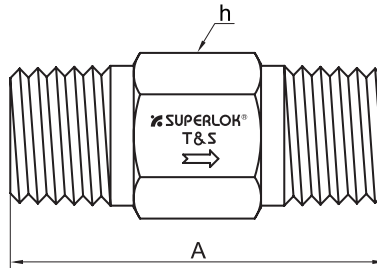
### Cracking Pressure and Reseal Pressure

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



<b>Testing</b>	All valves are factory tested for cracking pressure and reseal performance.
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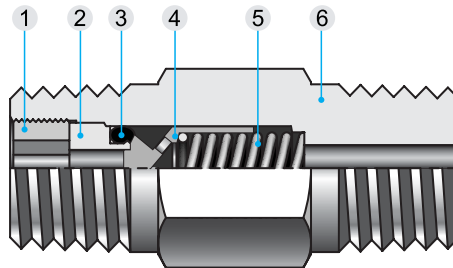
## Table of Dimensions



Order Number		End Connection		A	h Hex mm (in.)
Series	Part No.	Inlet	Outlet		
SOCV1	M-4N	1/4 Male NPT	1/4 Male NPT	41.2	14.29 (9/16)
	M-4R	1/4 Male ISO	1/4 Male ISO		
SOCV2	F-4N	1/4 Female NPT	1/4 Female NPT	61.2	19.05 (3/4)
	F-4R	1/4 Female ISO	1/4 Female ISO	64.5	
	MF-4N	1/4 Male NPT	1/4 Female NPT	44.5	
	FM-4N	1/4 Female NPT	1/4 Male NPT	58.2	
SOCV3	M-8N	1/2 Male NPT	1/2 Male NPT	57.9	22.22 (7/8)
SOCV4	F-8N	1/2 Female NPT	1/2 Female NPT	94.2	26.9 (1-1/16)
	MF-8N	1/2 Male NPT	1/2 Female NPT	71.9	

All dimensions 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

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

1                      2                      3                      4                      5

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

# ONE-PIECE ADJUSTABLE CHECK VALVES

## SOACV SERIES



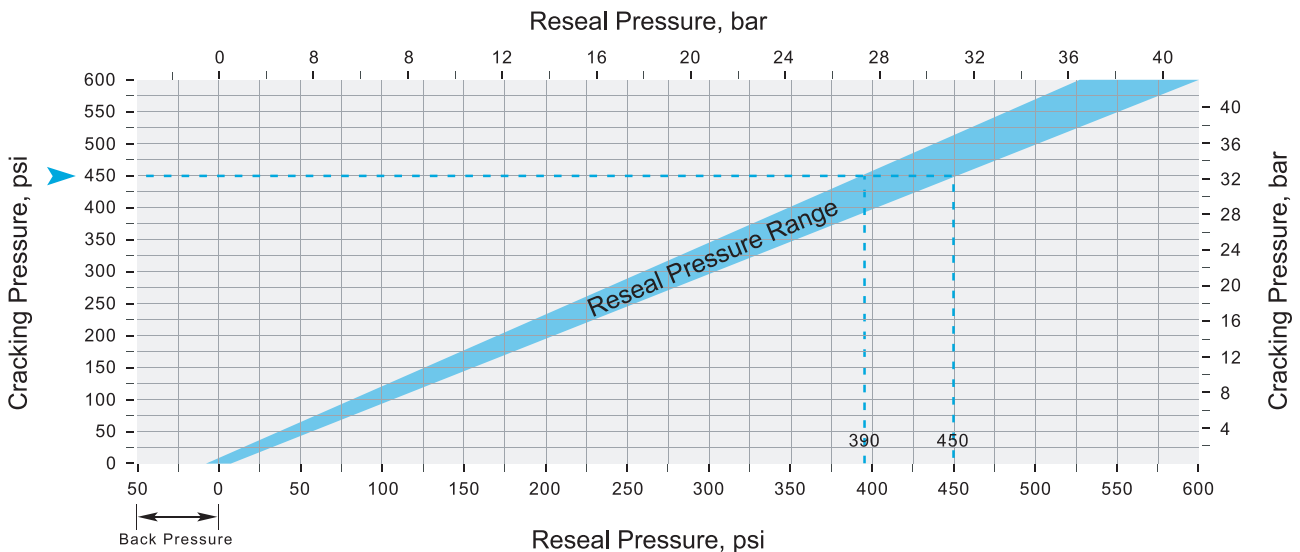
### Features

- One-Piece body
- Working pressure up to 3000psig (206 bar)
- Cracking pressure adjustable from 3 to 600psig (0.2 to 41.3bar)
- NPT and ISO pipe end connections in 1/4 and 1/2 in. sizes
- 316 stainless steel and brass materials
- Each and every valve is tested at the factory.

### Technical Data

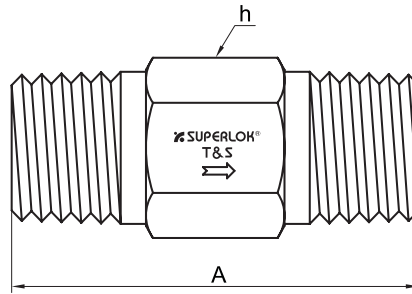
Series	SOACV1 / SOACV2	SOACV3
Cracking Pressure Ranges	3 to 50psi (0.2 to 3.4bar) 50 to 150psi (3.4 to 10.3bar) 150 to 350psi (10.3 to 24.1bar) 350 to 600psi (24.1 to 41.3bar)	
Working and Back Pressure at 70 °F (20 °C)	3000psig (206bar)	
Temperature Rating	VITON O-Ring : -10 °F to 375 °F (-23°C to 190°C) NBR O-Ring : -10 °F to 250 °F (-23°C to 121°C)	
Flow Coefficient (Cv)	0.35	1.20

### Cracking and Reseal Pressure at 70 °F (20 °C)



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

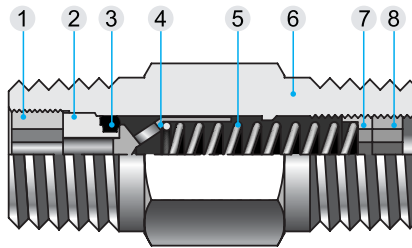
## Table of Dimensions



Order Number		End Connections	A(mm)	h HEX mm (in.)
Series	Part No.			
SOACV1	M-4N	1/4 Male NPT	41.1	14.29 (9/16)
	M-4R	1/4 Male ISO	41.1	14.29 (9/16)
SOACV2	F-4N	1/4 Female NPT	75.7	19.05 (3/4)
SOACV3	M-8N	1/2 Male NPT	65.0	22.22 (7/8)
	M-8R	1/2 Male ISO	65.0	22.22 (7/8)

All dimensions 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
7	Adjusting screw	316SS / A276	Brass
8	Locking screw	316SS / A276	Brass

## Ordering information

**SOACV1 - M - 4N - A - SS**

1
2
3
4
5

1 : Valve Series    2 : End Connection Type    3 : Connection Size

4 : Cracking Pressure Designator (A : 3~50 psi, B : 50~150 psi, C : 150~350 psi, D : 350~600psi)

5 : Body Material Designator [SS : 316 stainless steel(standard), B : Brass]