# 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 body as standard
- Each and every valve is tested for cracking pressure and reseal performance at the factory.

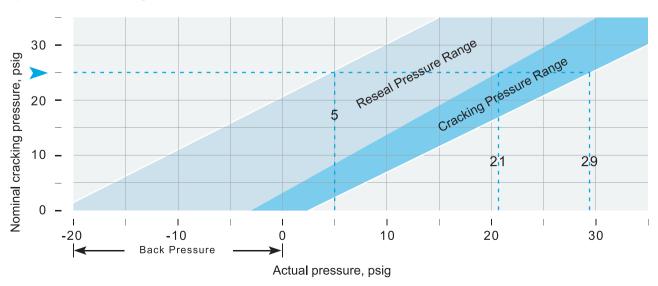


# **Technical Data**

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)

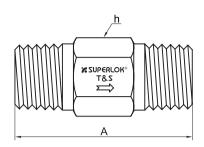
# **Cracking Pressure and Reseal Pressure**

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



One-piece Check Vlave Check Valves Series

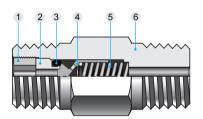
# **Table of Dimensions**



Do	et No	End Connection		_	h Hex	
PdI	rt No.	Inlet	Outlet	Α	mm (in.)	
COCV1	M4N	1/4 Male NPT	1/4 Male NPT	41.2	14.3 (9/16)	
SOCV1	M4R	1/4 Male ISO	1/4 Male ISO			
	F4N	1/4 Female NPT	1/4 Female NPT	61.2	19.1 (3/4)	
606/12	F4R	1/4 Female ISO	1/4 Female ISO	64.5		
SOCV2	M4N-F4N	1/4 Male NPT	1/4 Female NPT	44.5		
	F4N-M4N	1/4 Female NPT	1/4 Male NPT	58.2		
SOCV3	M8N	1/2 Male NPT	1/2 Male NPT	57.9	22.2 (7/8)	
50577	F8N	1/2 Female NPT	1/2 Female NPT	94.2	26.9 (1-1/16)	
SOCV4	M8N-F8N	1/2 Male NPT	1/2 Female NPT	71.9		

- Dimensions and Drawings are for reference only and are subject to change without prior notice.
- Unless otherwise specified, all dimensions are in millimeters.
- Sizes, pressure classes, and end connections not listed are available upon request.
- Dimensions shown with SUPERLOK nuts finger-tight, where applicable.

## **Materials of Construction**



No	Component	Valve Body Materials		
No.		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	

<sup>\*</sup> Wetted components

# **Ordering information**

Example :	SOCV2 - F 4N - 1P - N -	В
	1 2 3 4 5	6

1. Vavle Series

□ SOCV1 □ SOCV3 □ SOCV4

2. End Connection

□ **M** = Male Thread□ **F** = Female Thread

3. Connection Size

 Thread (inch)
 1/4
 1/2
 3/4

 Screwed NPT
 4N
 8N
 12N

 Screwed BSPT
 4R
 8R
 12R

4. Cracking Pressure

□ **0.3P** = 1/3 psi □ **10P** = 10 psi

 $\Box$  **1P** = 1 psi  $\Box$  **25P** = 25 psi

5. Seal Material

□ (Blank) = Viton (Standard)

□ N= NBR

6. Body Material

□ (Blank) = 316 Stainless Steel

□ **B** = Brass