

# ONE-PIECE CHECK VALVES

## SOCV SERIES



### Features

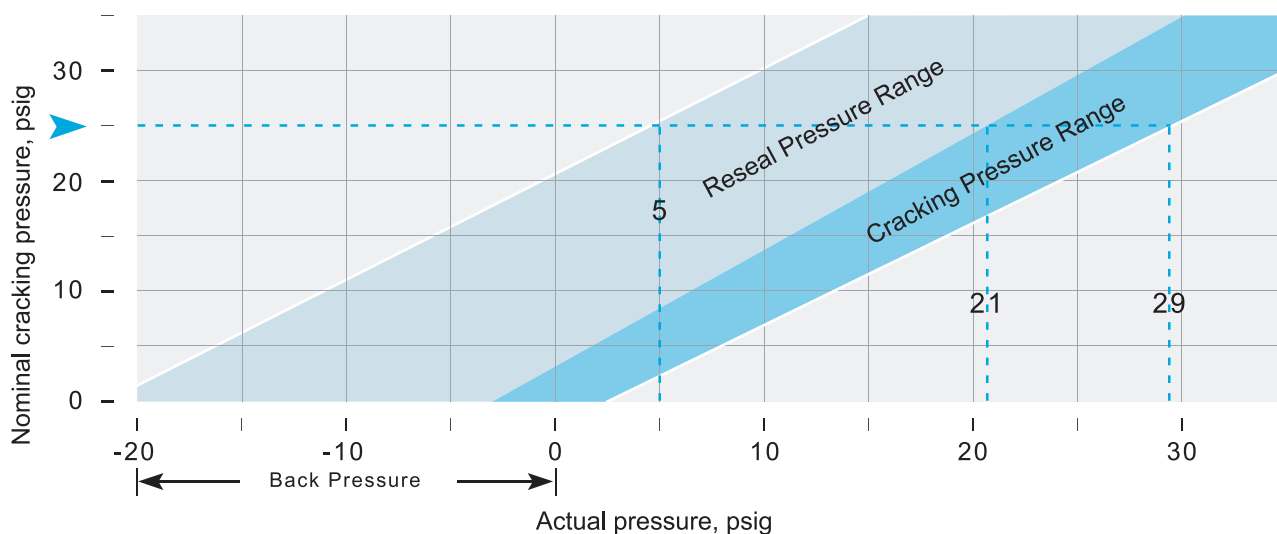
- One-piece Body
- Working pressure up to 3000 psig (206bar)
- Temperature rating up to 375 °F (190°C) with viton seal standard.
- Cracking pressure fixed from 1/3 to 25psig (0.02 to 1.7 bar)
- NPT and ISO pipe end connections
- 316 stainless steel and brass materials
- Each and every valve is tested 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<br>SOCV3 / SOCV4 : 1.20   |
| Temperature Rating                        | VITON O-ring : -10°F to 375 °F (-23°C to 190°C)<br>NBR O-ring : -10 °F to 250°F (-23°C to 121 °C)<br>(add "N" to the end of ordering number) |

### Cracking Pressure and Reseal Pressure

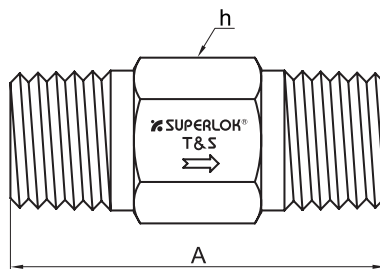
SOCV Series Valves with nominal cracking pressure of 20 psig (1.3 bar) or lower may require back pressure to reseal bubble-tight.



### Testing

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

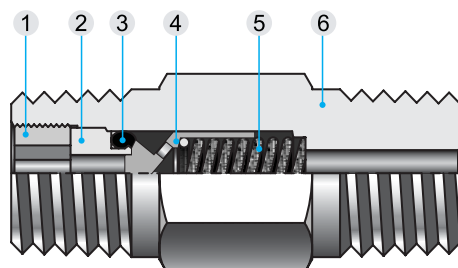
## Table of Dimensions



| Order Number |          | End Connection |                | A    | h Hex<br>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]