

# Relief Valves

- SRVL Series
- SRVH Series



# Relief Valves

## Features

- Compact design
- Cracking pressure adjustable externally
- Lock wire feature secures a given pressure setting
- Each and every valve is tested at the factory



## Set Pressure

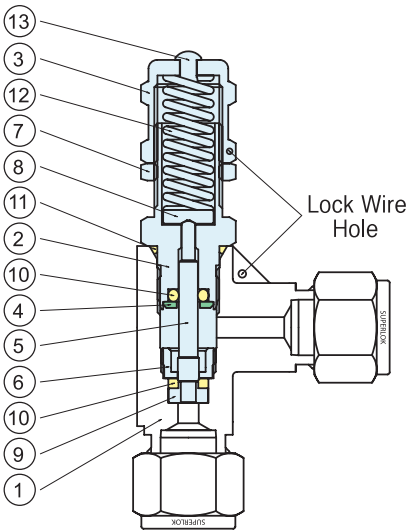
- Set pressure is the upstream pressure at which the first indication of flow occurs.
- Set pressure of each valve after initial relief is repeatable within  $\pm 5\%$  at room temperature

# SRVL Series

## Low Pressure Relief Valve

## Technical Data

- Maximum working pressure : 300 psig (20.6 bar)
- Cracking pressure range : 10~250 psig (0.69~17.2 bar)
- Orifice size : 4.8mm
- One spring for the full set pressure range



## Materials of Construction

| No. | Description                     | Material     | No. | Description   | Material      |
|-----|---------------------------------|--------------|-----|---------------|---------------|
| *1  | Body                            | SS316 / A182 | *9  | Seat Retainer | SS316 / A276  |
| *2  | Bonnet                          | SS316 / A276 | *10 | Seat          | PTFE          |
| 3   | Cracking Pressure Adjusting Nut | SS316 / A276 | *11 | O-Ring        | Viton         |
| *4  | Retainer                        | SS316 / A276 | *12 | O-Ring        | Viton         |
| *5  | Stem Shaft                      | SS316 / A276 | *13 | O-Ring        | Viton         |
| *6  | Stem                            | SS316 / A276 | 14  | Spring        | SS631         |
| 7   | Lock Nut                        | SS316 / A276 | 15  | Cap           | Polypropylene |
| 8   | Spring Support                  | SS316 / A276 |     |               |               |

\* Wetted components

# SRVH Series

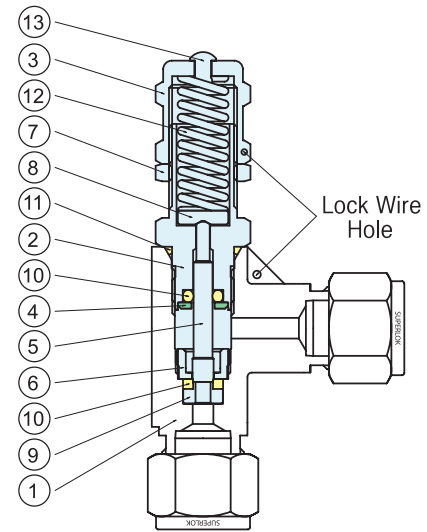
## High Pressure Relief Valve

### Technical Data

- Maximum working Pressure : 6000 psig (413 bar)
- Cracking Pressure Range : 225~6000 psig (15.5~414 bar)
- Orifice size : 4.8mm
- Multiple springs for a selection of set pressure ranges

### SRVH Series Spring

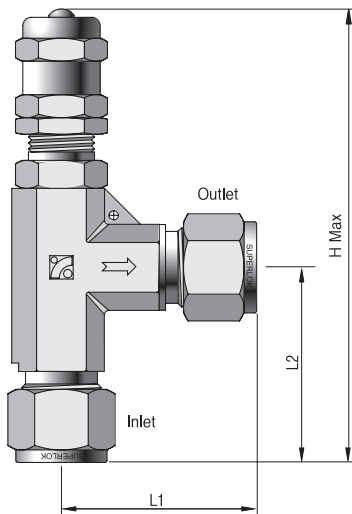
| Spring Designator | Spring Color | Cracking Pressure |           |             |
|-------------------|--------------|-------------------|-----------|-------------|
|                   |              | psig              | bar       | kPa         |
| YE                | Yellow       | 225~750           | 15.5~51.5 | 1550~5150   |
| PP                | Purple       | 750~1500          | 51.5~103  | 5150~10300  |
| OE                | Orange       | 1500~2250         | 103~155   | 10300~15500 |
| BN                | Brown        | 2250~3000         | 155~206   | 15500~20600 |
| WH                | White        | 3000~4000         | 206~275   | 20600~27500 |
| RD                | Red          | 4000~5000         | 275~344   | 27500~34400 |
| GN                | Green        | 5000~6000         | 344~414   | 34400~41400 |



### Materials of Construction

| No. | Description                     | Material     | No. | Description    | Material      |
|-----|---------------------------------|--------------|-----|----------------|---------------|
| *1  | Body                            | SS316 / A182 | 8   | Spring Support | SS316 / A276  |
| *2  | Bonnet                          | SS316 / A276 | *9  | Stem Retainer  | SS316 / A276  |
| 3   | Cracking Pressure Adjusting Nut | SS316 / A276 | *10 | O-Ring         | Viton         |
| *4  | Retainer                        | SS316 / A276 | *11 | O-Ring         | Viton         |
| *5  | Stem Shaft                      | SS316 / A276 | 12  | Spring         | SS631         |
| *6  | Stem Guide                      | SS316 / A276 | 13  | Cap            | Polypropylene |
| 7   | Lock Nut                        | SS316 / A276 |     |                |               |

\* Wetted components



### Table of Dimensions

| Part No.           | Orifice | End Connection |                 | Dimensions |      |       |
|--------------------|---------|----------------|-----------------|------------|------|-------|
|                    |         | Inlet          | Outlet          | L1         | L2   | H     |
| SRVL<br>or<br>SRVH | 4.8     | 1/4" SUPERLOK  |                 | 38.7       | 37.3 | 104.6 |
|                    |         | 6mm SUPERLOK   |                 | 38.7       | 37.3 | 104.6 |
|                    |         | 8mm SUPERLOK   |                 | 38.7       | 37.3 | 104.6 |
|                    |         | 3/8" SUPERLOK  |                 | 44.4       | 44.4 | 111.7 |
|                    |         | 1/2" SUPERLOK  |                 | 46.7       | 46.7 | 114.0 |
|                    |         | 12mm SUPERLOK  |                 | 46.7       | 46.7 | 114.0 |
|                    |         | 1/2" Male NPT  | 1/2" SUPERLOK   | 46.7       | 35.7 | 103.0 |
|                    |         | 1/2" Male NPT  | 12mm SUPERLOK   | 46.7       | 35.7 | 103.0 |
|                    |         | 1/4" Male NPT  | 1/4" Female NPT | 30.0       | 32.2 | 99.5  |
|                    |         | 3/8" Male NPT  | 3/8" Female NPT | 34.5       | 32.2 | 99.5  |
|                    |         | 1/2" Male NPT  | 1/2" Female NPT | 38.0       | 35.7 | 103.0 |

- Components can limit the pressure and temperature ranges of the valve. Please consult BMT (SUPERLOK) sales representative for your specific application.
- 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.

## Ordering Information

Example :

**SRVH**    -    **S**    **8**    -    **YE**

**1**                      **2**                      **3**                      **4**

※ 316 stainless steel is Standard Body Material.

### 1. Valve Series

- ☐ **SRVL** = Low Pressure
- ☐ **SRVH** = High Pressure

### 2. End Connection

- ☐ **S** = Tube Fitting
- ☐ **M** = Male Pipe Thread
- ☐ **F** = Female Pipe Thread

### 3. Inlet and Outlet Connection Size & Type

|            |                        |     |             |     |
|------------|------------------------|-----|-------------|-----|
| Fractional | Connection Size (inch) | 1/4 | 3/8         | 1/2 |
|            | Designator             | 4   | 6           | 8   |
| Metric     | Connection Size (mm)   | 6   | 8           | 12  |
|            | Designator             | 6M  | 8M          | 12M |
| Thread     |                        | NPT | ISO TAPERED |     |
| Designator |                        | N   | R           |     |

### 4. Spring Designator

- ☐ **YE** = 225 ~ 750 psig
- ☐ **PP** = 750 ~ 1500 psig
- ☐ **OE** = 1500 ~ 2250 psig
- ☐ **BN** = 2250 ~ 3000 psig
- ☐ **WH** = 3000 ~ 4000 psig
- ☐ **RD** = 4000 ~ 5000 psig
- ☐ **GN** = 5000 ~ 6000 psig

#### Spring Kit Ordering Information

For Low Pressure Relief Valve (SRVL): SRVL-KIT

For High Pressure Relief Valve (SRVH): Add the Spring Designator to SRVH-KIT- (Example: SRVH-KIT-YE)



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## Fittings & Valves

### INDUSTRIAL

Instrumentation Tube Fittings

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Manifold/Gauge Valves

Globe/Needle Valves

Cryogenic Valves

Check/Relief/Excess Flow Valves

High Pressure Valves

### ULTRA HIGH PURITY

Weld & Metal Face Seal Fittings

Bend Fittings

Diaphragm Valves

Bellows Valves

Check Valves

Clean Ball Valves

Regulators

## Electric & Energy

### PRODUCT & SOLUTION

Compact Switchboard

Motor Control Center (MCC)

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Energy Management System (EMS)

### COMPONENTS (BMT PATENTED)

*MCBS* (Molded Case Busbar System)

*MCPD* (Molded Case Power Distributor)

*Smart-eye* (AC/DC Meter)