Bleed & Purge Valve
High Technology Valve, Flange & Fitting Series
BLEED & PURGE VALVE

**APPLICATIONS**

**SUPERLOK** bleed valves can be used on instrumentation devices such as multivalve manifolds or gauge valves to vent signal line pressure to atmosphere before removal of an instrument or to assist in calibration of control devices.

**FEATURES**

- Compact for convenient installation.
- Back stop screw prevents accidental removal of stem.
- Chrome-plated stem threads and tip improves valve life.
- Male NPT or ISO Thread end connection.

**CAUTION**

When installing a **SUPERLOK** bleed valve, position the vent tube to direct system fluid away from operating personnel. Always open bleed valves slowly. These valves contain no packing, so some fluid weepage will occur when the valves are opened. Operating personnel must protect themselves from exposure to system fluids.

**MATERIALS OF CONSTRUCTION**

<table>
<thead>
<tr>
<th>Component</th>
<th>Valve Body Materials</th>
<th>Material Grade/ASTM Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stem</td>
<td>316 SS / A276</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>316 SS / A276</td>
<td></td>
</tr>
<tr>
<td>Back stop screw</td>
<td>316 SS / A276</td>
<td></td>
</tr>
<tr>
<td>Vent tube</td>
<td>316 SS / A269</td>
<td></td>
</tr>
</tbody>
</table>

**PRESSURE - TEMPERATURE RATINGS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Temperature °F(°C)</th>
<th>Working Pressure psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-65(-53) to 100(37)</td>
<td>10,000(689)</td>
<td></td>
</tr>
<tr>
<td>200(93)</td>
<td>9,290(640)</td>
<td></td>
</tr>
<tr>
<td>300(148)</td>
<td>8,390(578)</td>
<td></td>
</tr>
<tr>
<td>400(204)</td>
<td>7,705(530)</td>
<td></td>
</tr>
<tr>
<td>450(232)</td>
<td>7,435(512)</td>
<td></td>
</tr>
<tr>
<td>500(260)</td>
<td>7,165(493)</td>
<td></td>
</tr>
<tr>
<td>600(315)</td>
<td>6,770(466)</td>
<td></td>
</tr>
<tr>
<td>650(343)</td>
<td>6,600(458)</td>
<td></td>
</tr>
<tr>
<td>700(371)</td>
<td>6,840(446)</td>
<td></td>
</tr>
<tr>
<td>750(398)</td>
<td>6,335(436)</td>
<td></td>
</tr>
<tr>
<td>800(426)</td>
<td>6,230(429)</td>
<td></td>
</tr>
<tr>
<td>850(454)</td>
<td>6,085(419)</td>
<td></td>
</tr>
</tbody>
</table>

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Series</th>
<th>Orifice in.(mm)</th>
<th>Pressure-Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBLV</td>
<td>0.125 (3.2)</td>
<td>-65 to 850 °F(-54 to 454 °C)</td>
</tr>
<tr>
<td></td>
<td>10,000psig (689bar) @100°F (38°C)</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE OF DIMENSION**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>End Connection</th>
<th>Cv</th>
<th>Dimensions in.(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBLV-M-2N</td>
<td>1/8&quot; Male NPT</td>
<td>0.25</td>
<td>A 1.34 (34.0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B 0.94 (23.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 0.41 (10.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D 0.75 (19.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H 0.625 (15.87)</td>
</tr>
<tr>
<td>SBLV-M-4N</td>
<td>1/4&quot; Male NPT</td>
<td>0.25</td>
<td>A 1.47 (37.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B 1.03 (26.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 0.44 (11.2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D 0.88 (22.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H 0.875 (22.22)</td>
</tr>
<tr>
<td>SBLV-M-6N</td>
<td>3/8&quot; Male NPT</td>
<td>0.25</td>
<td>A 1.87 (47.6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B 1.15 (29.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 0.72 (18.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D 1 (25.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H 1.125 (28.57)</td>
</tr>
<tr>
<td>SBLV-M-8N</td>
<td>1/2&quot; Male NPT</td>
<td>0.25</td>
<td>A 1.97 (50.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B 1.15 (29.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 0.72 (18.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D 1 (25.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H 1.125 (28.57)</td>
</tr>
<tr>
<td>SBLV-M-12N</td>
<td>3/4&quot; Male NPT</td>
<td>0.25</td>
<td>A 1.97 (50.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B 1.15 (29.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C 0.72 (18.3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D 1 (25.4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H 1.125 (28.57)</td>
</tr>
</tbody>
</table>

Dimensions are for reference only, subject to change.

**TESTING**

- Each valve is tested with nitrogen@1000psig(69bar)to max leak rate of 0.1 SCCM.
- Hydrostatic shell test is performed at 1.5times the working pressure as an option.

**OPTION**

If require 316SS bar handle, add-BH to the end of part number. ex) SBLV-M-4N-BH
BLEED & PURGE VALVE

PURGE VALVES

APPLICATIONS
SUPERLOK purge valves are manual bleed, vent, or drain valves.
One-quarter turn with a wrench from finger-tight obtains leaktight closure on first makeup.
Snugging with a wrench ensures closure to the rated pressure with subsequent makeups.

FEATURES
- Compact for convenient installation.
- Vent hole bleeds excess liquid or gas from system lines.
- Cap is crimped to valve body to prevent accidental disassembly.
- Variety of end connections; SUPERLOK tube fittings, NPT and ISO threads.

CAUTION
When installing a SUPERLOK purge valve, position the vent hole to direct system fluid away from operating personnel. The vent hole rotates with the cap, changing the direction of discharge, as the cap is turned. Always open purge valves slowly. These valves contain no packing, so some fluid weepage will occur when the valves are opened. Operating personnel must protect themselves from exposure to system fluids.

MATERIALS OF CONSTRUCTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Valve Body Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cap</td>
<td>316 SS / A276</td>
</tr>
<tr>
<td>Body</td>
<td>316 SS / A276</td>
</tr>
<tr>
<td>Poppet</td>
<td>316 SS / A276</td>
</tr>
<tr>
<td>Spring</td>
<td>304 SS</td>
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</table>

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Series</th>
<th>Pressure - Temperature Rating</th>
<th>Material Grade/ASTM Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPUV</td>
<td>-65 to 600°F (-54 to 315°C)</td>
<td>4,000 psig (275 bar) @100°F (38°C)</td>
</tr>
</tbody>
</table>

PRESSURE - TEMPERATURE RATINGS

<table>
<thead>
<tr>
<th>Material Grade/ASTM Specification</th>
<th>316 SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature °F</td>
<td>Working Pressure psig (bar)</td>
</tr>
<tr>
<td>-65(-53) to 100(37)</td>
<td>4,000(275)</td>
</tr>
<tr>
<td>150(65)</td>
<td>3,720(256)</td>
</tr>
<tr>
<td>200(93)</td>
<td>3,440(237)</td>
</tr>
<tr>
<td>300(148)</td>
<td>3,105(213)</td>
</tr>
<tr>
<td>350(176)</td>
<td>2,975(204)</td>
</tr>
<tr>
<td>400(204)</td>
<td>2,850(196)</td>
</tr>
<tr>
<td>450(232)</td>
<td>2,750(189)</td>
</tr>
<tr>
<td>500(260)</td>
<td>2,650(182)</td>
</tr>
<tr>
<td>600(315)</td>
<td>2,500(172)</td>
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</tbody>
</table>

TABLE OF DIMENSION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet End Connection</th>
<th>Dimensions in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>A</td>
<td>H</td>
</tr>
<tr>
<td>S-4-UT</td>
<td>1/4&quot; Female NPT</td>
<td>1.49(38.0)</td>
</tr>
<tr>
<td>S-6-UT</td>
<td>3/8&quot; Female NPT</td>
<td>1.49(38.0)</td>
</tr>
<tr>
<td>S-8-UT</td>
<td>1/2&quot; Female NPT</td>
<td>1.61(41.0)</td>
</tr>
</tbody>
</table>

Straight Type

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet End Connection</th>
<th>Dimensions in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>F-2N</td>
<td>1/8&quot; Female NPT</td>
<td>1.56(39.6)</td>
</tr>
<tr>
<td>F-4N</td>
<td>1/4&quot; Female NPT</td>
<td>1.75(44.4)</td>
</tr>
<tr>
<td>F-6N</td>
<td>3/8&quot; Female NPT</td>
<td>1.81(46.0)</td>
</tr>
<tr>
<td>F-8N</td>
<td>1/2&quot; Female NPT</td>
<td>1.98(50.3)</td>
</tr>
<tr>
<td>M-2N</td>
<td>1/8&quot; Male NPT</td>
<td>1.62(41.1)</td>
</tr>
<tr>
<td>M-4N</td>
<td>1/4&quot; Male NPT</td>
<td>1.81(46.0)</td>
</tr>
<tr>
<td>M-6N</td>
<td>3/8&quot; Male NPT</td>
<td>1.84(46.7)</td>
</tr>
<tr>
<td>M-8N</td>
<td>1/2&quot; Male NPT</td>
<td>2.09(53.1)</td>
</tr>
<tr>
<td>S-2</td>
<td>1/8&quot; SUPERLOK</td>
<td>1.84(46.7)</td>
</tr>
<tr>
<td>S-4</td>
<td>1/4&quot; SUPERLOK</td>
<td>1.94(49.3)</td>
</tr>
<tr>
<td>S-6</td>
<td>3/8&quot; SUPERLOK</td>
<td>2.03(51.6)</td>
</tr>
<tr>
<td>S-8</td>
<td>1/2&quot; SUPERLOK</td>
<td>2.19(55.6)</td>
</tr>
<tr>
<td>S-6M</td>
<td>6mm SUPERLOK</td>
<td>1.94(49.3)</td>
</tr>
<tr>
<td>S-8M</td>
<td>8mm SUPERLOK</td>
<td>2.00(50.8)</td>
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</table>

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# TABLE OF DIMENSION

## Elbow Type

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet</th>
<th>Dimensions in.(mm)</th>
<th>L</th>
<th>A</th>
<th>B</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-4-ET</td>
<td>1/4&quot; Female NPT</td>
<td>1.13(28.8)</td>
<td>1.13(28.8)</td>
<td>1.13(28.8)</td>
<td>0.63(15.9)</td>
<td></td>
</tr>
<tr>
<td>S-6-ET</td>
<td>3/8&quot; Female NPT</td>
<td>1.20(30.5)</td>
<td>1.20(30.5)</td>
<td>1.20(30.5)</td>
<td>0.63(15.9)</td>
<td></td>
</tr>
<tr>
<td>S-8-ET</td>
<td>1/2&quot; Female NPT</td>
<td>1.41(35.8)</td>
<td>1.41(35.8)</td>
<td>1.41(35.8)</td>
<td>0.81(20.6)</td>
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</tr>
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</table>

## Tee Type

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet</th>
<th>Dimensions in.(mm)</th>
<th>L</th>
<th>A</th>
<th>B</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-4-TT</td>
<td>1/4&quot; Female NPT</td>
<td>1.26(32.0)</td>
<td>2.26(57.5)</td>
<td>1.13(28.8)</td>
<td>0.63(15.9)</td>
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</tr>
<tr>
<td>S-6-TT</td>
<td>3/8&quot; Female NPT</td>
<td>2.40(61.0)</td>
<td>2.40(61.0)</td>
<td>1.20(30.5)</td>
<td>0.63(15.9)</td>
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</tr>
<tr>
<td>S-8-TT</td>
<td>1/2&quot; Female NPT</td>
<td>2.82(71.6)</td>
<td>2.82(71.6)</td>
<td>1.41(35.8)</td>
<td>0.81(20.6)</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions are for reference only, subject to change.

## ORDERING INFORMATION

**SPUV** - S - 4 - UT - SS

<table>
<thead>
<tr>
<th>1 Valve Series</th>
<th>SPUV</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 End Connection</td>
<td></td>
</tr>
<tr>
<td>S : SUPERLOK Tube Fitting</td>
<td></td>
</tr>
<tr>
<td>F : Female Thread</td>
<td></td>
</tr>
<tr>
<td>M : Male Thread</td>
<td></td>
</tr>
<tr>
<td>3 End Connection Size</td>
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</tr>
<tr>
<td>- Tube O.D Designation</td>
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</tr>
<tr>
<td>Tube O.D (inch)</td>
<td>1/4</td>
</tr>
<tr>
<td>Designation</td>
<td>4</td>
</tr>
<tr>
<td>Tube O.D (mm)</td>
<td>6</td>
</tr>
<tr>
<td>Designation</td>
<td>6M</td>
</tr>
<tr>
<td>4 Pattern Designator</td>
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<tr>
<td>Nil : Straight Type</td>
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</tr>
<tr>
<td>UT : Union Type</td>
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</tr>
<tr>
<td>ET : Elbow Type</td>
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</tr>
<tr>
<td>TT : Tee Type</td>
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<tr>
<td>5 Body Material</td>
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</tr>
<tr>
<td>SS : 316 Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>B : Brass</td>
<td></td>
</tr>
</tbody>
</table>

![Superlok USA Logo](image)

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sales@superlokusa.com