Furon® Suckback Valve

Pneumatically Actuated, Molded (1/4" Orifice)

Description
Furon® Suckback Valves create a small vacuum when switching from open back to closed position, allowing it to suck back a predetermined amount of liquid and thereby preventing extra drops of liquid from being dispensed after valve closure. This provides an ideal valve for applications requiring a precise amount of liquid to be dispensed. Based on our time-proven UPM valve technology, Furon® Suckback Valves offer superior reliability. On select models we offer our proprietary “Strength Corrosion Resistant (SCR)” spring combined with a modified PTFE diaphragm for compatibility with the harshest of process chemicals, including HF and HCl. An adjustment knob on top of the valve allows for easy adjustment of the desired suckback volume.

Applications
• Precise dispensing of chemicals such as photoresist, adhesives, abrasive slurries, and other process critical liquid media
• Dispensing of harsh and aggressive chemistries
• Ozinated water applications (Select models)

Features and Benefits
• All virgin PTFE/high purity molded PFA wetted flow path
• Eliminates dripping of media from nozzles after dispense cycle
• Adjustable suckback capacity permits precise metering of media
• Repeatability of suckback amount assures identical dispense volume for each cycle
• Suitable for use with ultra high-purity or highly corrosive media
• Innovative Furon® SCR spring assures compatibility with HF and HCl
• Suitable for use in ozone applications (select models)
**Furon® Suckback Valve**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diaphragm</th>
<th>End Connection</th>
<th>Orifice (in.)</th>
<th>Port Size (in.)</th>
<th>A (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBVM-144</td>
<td>PTFE</td>
<td>Standard</td>
<td>1/4</td>
<td>1/4</td>
<td>3.00 (76.2 mm)</td>
</tr>
<tr>
<td>SBVM-144-SCR-F6</td>
<td>Modified PTFE</td>
<td>SCR</td>
<td>1/4</td>
<td>1/4</td>
<td>3.00 (76.2 mm)</td>
</tr>
<tr>
<td>SBVM-F44</td>
<td>PTFE</td>
<td>Standard</td>
<td>1/4</td>
<td>1/4</td>
<td>4.51 (114.6 mm)</td>
</tr>
<tr>
<td>SBVM-F44-SCR-F6</td>
<td>Modified PTFE</td>
<td>SCR</td>
<td>1/4</td>
<td>1/4</td>
<td>4.51 (114.6 mm)</td>
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<tr>
<td>SBVM-F46</td>
<td>PTFE</td>
<td>Standard</td>
<td>1/4</td>
<td>3/8</td>
<td>4.51 (114.6 mm)</td>
</tr>
<tr>
<td>SBVM-F46-SCR-F6</td>
<td>Modified PTFE</td>
<td>SCR</td>
<td>1/4</td>
<td>3/8</td>
<td>4.51 (114.6 mm)</td>
</tr>
<tr>
<td>SBVM-T44-SCR-F6</td>
<td>Modified PTFE</td>
<td>SCR</td>
<td>1/4</td>
<td>1/4</td>
<td>4.51 (114.6 mm)</td>
</tr>
</tbody>
</table>

**Operating Specifications**

- **Operating Pressure:** 60 psig (4.1 bar)
- **Cv Flow Factor:** 2.3 – 7.2
- **Operating Temperature:** 212°F (100°C)
- **Actuator Pressure (pneumatic version):** 60 – 90 PSIG (4.1 – 6.2 bar)
- **Body:** PFA
- **Diaphragm:** PTFE or Modified PTFE (-F6 version)
- **Top Cap:** Engineered Thermoplastics
- **Maximum Suckback Volume:** 100 µL
- **Maximum Suckback Height:** 4 feet (1.2 m)

**Standard Options**

- Other end connection types available. Please consult factory for:
  - Sanitary flange
  - Nippon Pillar Super 300®
  - Others not listed
- PFA Flare nuts (add –3)
- Ozone compatible version (add –Z)

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**NOTE:** The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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