BPV Series Pneumatic Pinch Valves

The NEW BPV Series pneumatic pinch valves from Bimba are designed to provide an alternative to traditional wetted valves. The valve operates by opening and closing tubes to control the flow of various medias. With a unique, compact construction, this pinch valve offers an affordable option without compromising on quality. Capabilities range from tube sizes starting at 3/32” up to 1/2”.

An affordable and compact pinch valve line is an ideal fit for market segments such as food and beverage, industrial laboratory sciences, and medical devices where high quantities are necessary and unit price is critical. BPV Series valves are designed for applications where sterility and washdown procedures are crucial. Valves can be mounted with various mounting brackets and can be configured with an optional mount.

Features and Benefits

> Lightweight, compact, powerful and cost-effective
> Simple and fast tube replacement
> Eliminate potential contamination of media
> Long performance and reliability
> Specifically designed for disposable tubing
> Valve body is not affected by the corrosiveness of the fluids
> Linear flow
> Tube materials: silicone, c-flex, tygon

Applications

> Food and beverage
> Industrial
> Chemical processing
> Laboratories/medical devices
> Industrial painting
> Water treatment
> Dispensing, filling and mixing: resin, glue, epoxy, adhesive, paint, slurries, and other media
> 3D Printing
> Powder feed
> Chromatography - analyzers
## Pinch Valve Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model Number</th>
<th>Aluminum and Stainless Steel Models</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02</td>
<td>04</td>
</tr>
<tr>
<td>Tube Size, O.D. Supported - Inch (mm)*</td>
<td>0.094 to 0.125 (2.36 to 3.17)</td>
<td>0.156 to 0.250 (4.78 to 6.35)</td>
</tr>
<tr>
<td>Tube Wall Thickness Supported - Inch (mm)*</td>
<td>0.031 min. (0.78)</td>
<td>0.063 min. (1.6)</td>
</tr>
<tr>
<td>Media Pressure, Maximum - psig (barg)</td>
<td>30 (2.07)</td>
<td>30 (2.07)</td>
</tr>
<tr>
<td>Recommended Tubing Durometer**</td>
<td>Up to 65 Shore A</td>
<td>Up to 65 Shore A</td>
</tr>
<tr>
<td>Default (Normal) State</td>
<td>NC and NO</td>
<td>NC and NO</td>
</tr>
<tr>
<td>Pinch Gap - Inch (mm)</td>
<td>0.040 (1.016)</td>
<td>0.080 (2.032)</td>
</tr>
<tr>
<td>Total Opening Nominal - Inch (mm)</td>
<td>0.125 (3.2)</td>
<td>0.250 (6.4)</td>
</tr>
<tr>
<td>Pinching Force Nominal - Lbf (kgF)</td>
<td>Up to 1.8 (0.82)</td>
<td>Up to 4.5 (2.04)</td>
</tr>
<tr>
<td>Min. to Max. Ambient Temperature - Fº (ºC)</td>
<td>-20º to 200ºF (-29º to 90ºC)</td>
<td>-20º to 200ºF (-29º to 90ºC)</td>
</tr>
</tbody>
</table>

*Other tubing wall thickness and diameters can potentially be used. Please contact factory with any questions

**Tube material dependent

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### Ordering Information

**BPVA - S02 - X_M**

<table>
<thead>
<tr>
<th>Series</th>
<th>Type</th>
<th>Tube Slot Size</th>
<th>Mounting</th>
<th>End Cap Material</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPVA</td>
<td>S</td>
<td>0.125” OD</td>
<td>Blank</td>
<td>Blank</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>0.250” OD</td>
<td>Blank</td>
<td>Blank</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>X</td>
<td>0.375” OD</td>
<td>Blank</td>
<td>Stainless Steel1</td>
<td>T1, T2, T3, T4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.500” OD</td>
<td>Threaded</td>
<td>Aluminum</td>
<td>V</td>
</tr>
</tbody>
</table>

1Stainless Steel end cap option is not compatible with T1, T2, T3, or T4 switch tracks
2Cannot be ordered with Viton Seals
3Cannot be ordered with FDA Seals and Lube. If ordered with "M" option, magnet is not reliable above 200ºF
4A maximum of two track options can be ordered together

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*Intended for use as a stud mount, pivot is not recommended.

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