



Anodized aluminum pinch head (optional stainless steel)

304 stainless steel body option

Normally open or normally closed options



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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

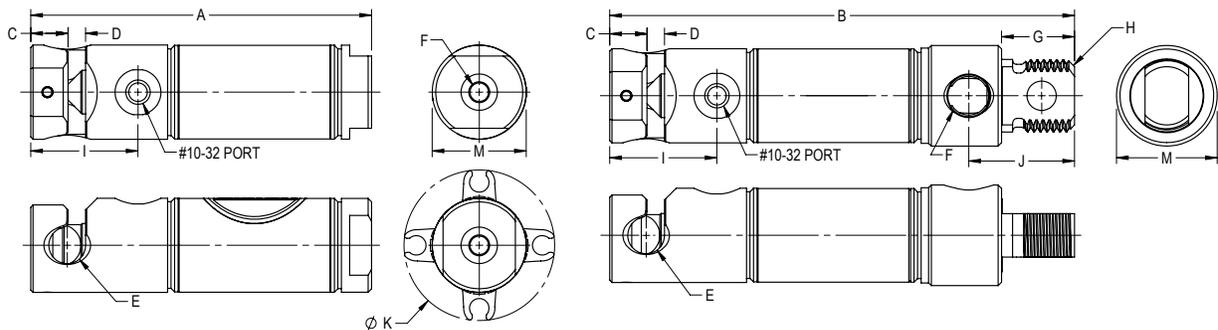
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IMI Precision Engineering

Pinch Valve Specifications

Specifications	Aluminum and Stainless Steel Models			
Model Number	02	04	06	08
Tube Size, O.D. Supported - Inch (mm)*	0.094 to 0.125 (2.36 to 3.17)	0.156 to 0.250 (4.78 to 6.35)	0.250 to 0.375 (6.35 to 9.5)	0.375 to 0.500 (9.5 to 12.7)
Tube Wall Thickness Supported - Inch (mm)*	0.031 min. (0.78)	0.063 min. (1.6)	0.063 min. (1.6)	0.063 min. (1.6)
Media Pressure, Maximum - psig (barg)	30 (2.07)	30 (2.07)	30 (2.07)	30 (2.07)
Recommended Tubing Durometer**	Up to 65 Shore A	Up to 65 Shore A	Up to 65 Shore A	Up to 65 Shore A
Default (Normal) State	NC and NO	NC and NO	NC and NO	NC and NO
Pinch Gap - Inch (mm)	0.040 (1.016)	0.080 (2.032)	0.080 (2.032)	0.080 (2.032)
Total Opening Nominal - Inch (mm)	0.125 (3,2)	0.250 (6,4)	0.375 (9,5)	0.500 (12,7)
Pinching Force Nominal - LbF (kgF)	Up to 1.8 (0.82)	Up to 4.5 (2.04)	Up to 6.9 (3.13)	Up to 12.2 (5.53)
Min. to Max. Ambient Temperature - F° (C°)	-20° to 200°F (-29° to 90°C)	-20° to 200°F (-29° to 90°C)	-20° to 200°F (-29° to 90°C)	-20° to 200°F (-29° to 90°C)

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



Bore	A	B	C	D	E	F	G	H*	I	J	K	M
02	2.418	2.887	0.258	0.07	0.188	#10-32	0.437	7/16-20	0.73	0.563	1.06	0.62
04	2.920	3.983	0.320	0.15	0.315	1/8 NPT	0.625	5/8-18	0.92	0.906	1.26	0.86
06	3.685	4.560	0.528	0.19	0.438	1/8 NPT	0.625	5/8-18	1.32	0.906	1.60	1.12
08	4.498	5.622	0.625	0.25	0.625	1/8 NPT	0.812	3/4-16	1.59	1.187	1.79	1.33

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

Ordering Information

BPVA - S02 - X_M

Series	Type	Tube Slot Size	Mounting	End Cap Material	Options
BPVA Pneumatic Pinch Valve	S Normally Open	02 0.125" OD	Blank Basic, no mount	Blank Aluminum	F FDA Seals and Lube ²
		04 0.250" OD			M Magnet
	R Normally Closed	06 0.375" OD	X Threaded Rear Stud	S Stainless Steel ¹	T1 Switch Track, position 1 ⁴
		08 0.500" OD			T2 Switch Track, position 2 ⁴
					T3 Switch Track, position 3 ⁴
					T4 Switch Track, position 4 ⁴
					V Viton Seals ³

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 200°F

⁴A maximum of two track options can be ordered together



Bimba

25150 S. Governors Hwy
University Park, IL 60484

Tel: +1 800 44 BIMBA

Fax: +1 708 235 2014

Email: cs@imi-precision.com

Website: www.bimba.com

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