

Furon® Mini Check Valve

Media Actuated (1/16", 3/8" Orifice)



Features/Benefits

- Cracking pressure
— less than 2 PSIG (13.79 kPa)
- Easy in-line installation
- Non-contaminating high purity fluoropolymer spring
- All wetted parts are 100% high purity fluoropolymer
- O-ring free design
- Pipe, tube, metric, fractional or flare end connections

Operation

- High flow/small footprint uni-directional valve
- Designed to crack (open) at low pressures, under 2 PSIG (13.79 kPa) and to provide positive seal against any reverse flow
- Engineered to operate in any orientation
- Designed for system pressures up to 120 PSIG (827 kPa) at room temperature

Applications

- Ideally suited in directional flow of high purity media
- Designed for use in semiconductor chemical delivery, high purity and corrosive chemical applications

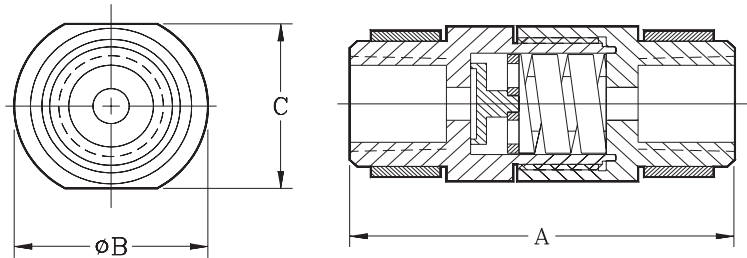
Furon® Mini Check Valve Media Actuated

Ordering Information

PART NO.	ORIFICE	END CONNECTION	PORT SIZE	A	øB	C
MCV1-12	1/16	FNPT	1/8	2.00 (50.80mm)	1.00 (25.40mm)	.88 (22.35mm)
MCV2-12	1/16*	GRAB SEAL	1/8	2.54 (64.52mm)		
MCV1-22	1/8	FNPT	1/8	2.00 (50.80mm)		
MCV2-24	1/8*	GRAB SEAL	1/4	2.72 (69.09mm)		
MCV2-34	3/16*	GRAB SEAL	1/4	2.72 (69.09mm)		
MCV1-44	1/4	FNPT	1/4	2.00 (50.80mm)		
MCV2-46	1/4*	GRAB SEAL	3/8	2.86 (72.64mm)	1.50 (38.10mm)	1.40 (35.56mm)
MCV1-66	3/8	FNPT	3/8	2.92 (74.17mm)		

Non-Standard Options

- Other End Connections available:
 - Grab Seal™ (IMP) Metric Tube O.D.*
4mm, 6mm, 8mm, 10mm
 - Male NPT
 - Flare Grip®*
- Non-Standard Options and custom configurations are welcome.
- Please consult factory for part number, price and delivery.



Specifications and Performance

- Media Operating Temperature: 32°F to 203°F (0°C to 95°C)
- Maximum Operating Pressure: 120 PSIG (827 kPa) @ 72°F (22°C)
40 PSIG (276kPa) @ 185°F (85°C)
- Minimum Sealing Back Pressure: 4 PSIG (28 kPa)

Orifice Size	C _v Flow Factor	Cracking (Opening) Pressure PSIG (kPa)
1/16"	0.10	0.80 (5.52)
1/8"	0.40	0.70 (4.83)
3/16"	0.70	0.69 (4.76)
1/4"	1.00	0.67 (4.62)
5/16"	1.25	0.60 (4.14)
3/8"	1.90	0.55 (3.79)

Notes

*When selecting either Flare Grip® or Grab Seal™ ends, we recommend end connections that are larger than the valve orifice size in order to achieve full flow.

**Calculated performance data.

Saint-Gobain Performance Plastics-USA

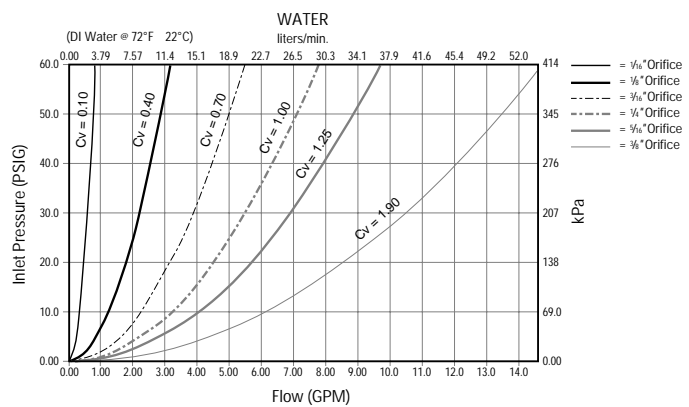
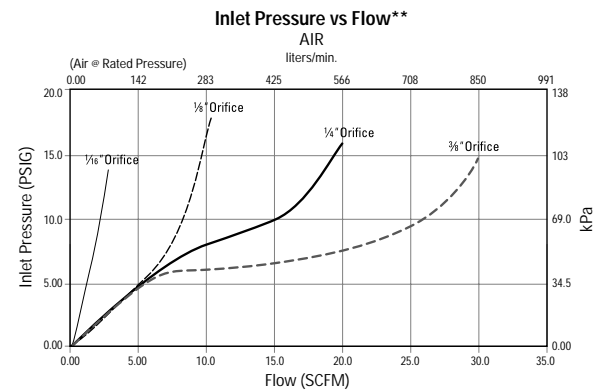
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Grab Seal™ is a trademark.

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