

NEW

CATALOG MPC-1

**For Exceptionally-High Quantities of Tubing Check Valves
...at an Exceptionally-Low Cost!**

Series "MPC" Miniature Plastic Check Valves

For vacuum, pressure, liquids and gases!



Choose from a variety of body materials including: Nylon, Polypropylene & PVDF (Kynar®) and a broad range of diaphragm materials... Viton®, EPDM, Silicone, Kalrez® and Kel-F®.

Features/Advantages:

- **Superior Sensitivity:** Free-floating diaphragm responds to slightest pressure change.
- **Very Rapid Response:** Between free-flow and no-flow situations.
- **Extremely Low Cost:** Designed to perform at high industry standards but very economically priced.
- **Application Flexibility:** Can mount in any position.
- **Materials Of Construction:** Standard combinations include: 1. Nylon body with silicone diaphragm for pressures to 125 PSI. 2. Polypro body with Viton® diaphragm for corrosive or ultra-pure applications. 3. PVDF body with Viton diaphragm... combining the high performance of PVDF with the cost-effectiveness of Viton. 4. PVDF (Kynar®) body with Kalrez® diaphragm... the ultimate combination for high corrosion resistance and high-purity. Other material combinations can be supplied to meet high-volume requirements for special applications.
- **Reliable Performance:** With liquids, gases, pressure and vacuum applications.

PLAST-O-MATIC
VALVES, INC.

Series "MPC" Miniature Plastic Check Valves

Operation:

The Series MPC tubing valves utilize a flexible elastomer diaphragm. Back pressure forces the diaphragm against a seat thus closing the orifice. Inlet pressure moves the diaphragm against a downstream side support completely opening the orifice. The support prevents damage to the diaphragm under high flow conditions. The inlet flow keeps the diaphragm and valve seat clean and free of particles which could cause leakage in the closed position.

Installation:

Because of its sensitive and free floating design, the Series "MPC" valve can be installed in any position. Caution however should be exercised to make certain that the direction of flow is correct; one side of the valve is stamped with "VAC" to identify the downstream or outlet side.

Maximum Pressure and Flow Ratings:

Body & diaphragm material	Tubing I.D. Size (Inches)	Cv	Water				Air			
			Max. Working Pressure PSI		Max Flow at Max Pressure GPM	Max. Working Pressure PSI		Max Flow at Max Pressure SCFM		
			Inlet	Reverse		Inlet	Reverse			
Polypropylene Polyporo Viton	3/16	.12	50	40	.78	25	25	1.5	3.8	
	1/4	.12	50	40	.85	25	25	3.8	3.8	
	5/16	.13	15	15	.50	10	10	2.3	2.3	
Nylon and Silicone	1/8	.12	125	40	1.33	125	40	9.5	6.4	
	3/16	.13	125	40	1.45	125	40	6.4	6.4	
	1/4	.13	125	40	1.45	125	40	6.4	6.4	
PVDF and Viton	5/16	.22	40	40	1.40	50	40	5.3	5.3	
	1/8	.11	125	40	1.20	125	40	8.8	9.6	
	3/16	.12	125	40	1.30	125	40	9.6	9.6	
PVDF	1/4	.12	125	40	1.30	125	40	9.6	9.6	
	5/16	.13	25	25	.65	25	25	3.9	3.9	
	3/16	.12	125	40	1.20	125	40	8.8	9.6	
Kalrez	1/4	.12	125	40	1.20	125	40	9.6	9.6	
	5/16	.13	125	40	1.65	125	40	3.9	3.9	

CAUTION: Large number of flow/check cycles may cause diaphragm to fail due to fatigue.

Note: Pressures listed are at a maximum temperature of 90°F (32°C).

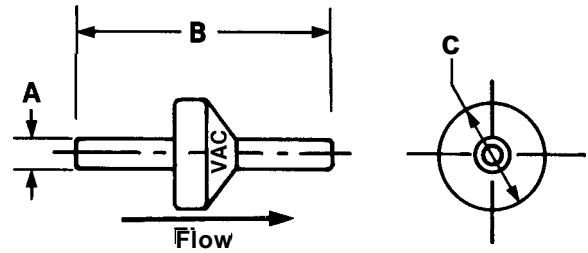
For pressure ratings at higher temperatures, consult factory.

Dimensions and Model Numbers:

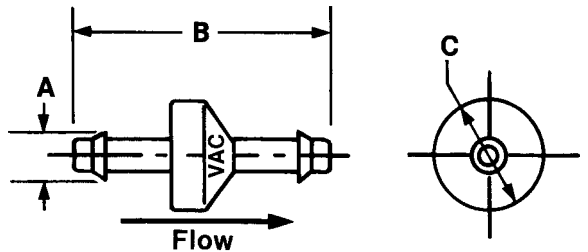
Tubing I.D. Size	Inlet & Outlet Size A	Length B	Size C	Model Numbers			
				Polypro & Viton	Nylon & Silicone	PVDF & Kalrez	PVDF & Viton
1/8	.147	1-5/8	3/4	MPC012V-PP	MPC012SI-NY	MPC012K-PF	MPC012V-PF
3/16	.232	1-5/8	3/4	MPC018V-PP	MPC018SI-NY	MPC018K-PF	MPC018V-PF
1/4	.307	1-5/8	3/4	MPC025V-PP	MPC025SI-NY	MPC025K-PF	MPC025V-PF
5/16	.372	1-3/4	1-1/4	MPC031V-PP	MPC031SI-NY	MPC031 K-PF	MPC031V-PF

For information on other material combinations, consult factory.

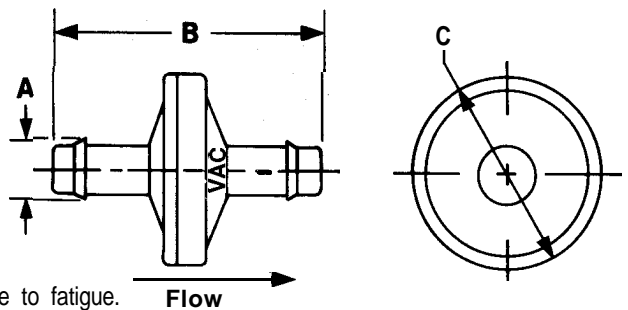
Size: 1/8" Straight Ends



Sizes: 3/16" & 1/4" Barbed Ends



Size: 5/16" Barbed Ends



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