aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

MV-16 Series

3/4" Manual PFA 2 Way, 3 Way and Sampling Valves

Product Overview:

The MV-16 Series is designed for semiconductor, ultra-pure water and aggressive chemical or gas applications. The design has a molded high purity PFA body with precision machined sealing areas. A one piece machined modified PTFE diaphragm is also utilized for excellent flexibility and life. A full 3/4" orifice provides maximum flow capability in a compact package. The MV-16 Series is offered in three valve configurations.

Contact Information:

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7075 East Southpoint Road
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phone 520 574 2600
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Product Features:

- Modified PTFE diaphragm provides five times longer flexural life as compared to conventional PTFE.
- Tongue and groove seat and diaphragm for positive through flow shut off.
- Diaphragm to body seal provides less downtime and lower replacement costs.

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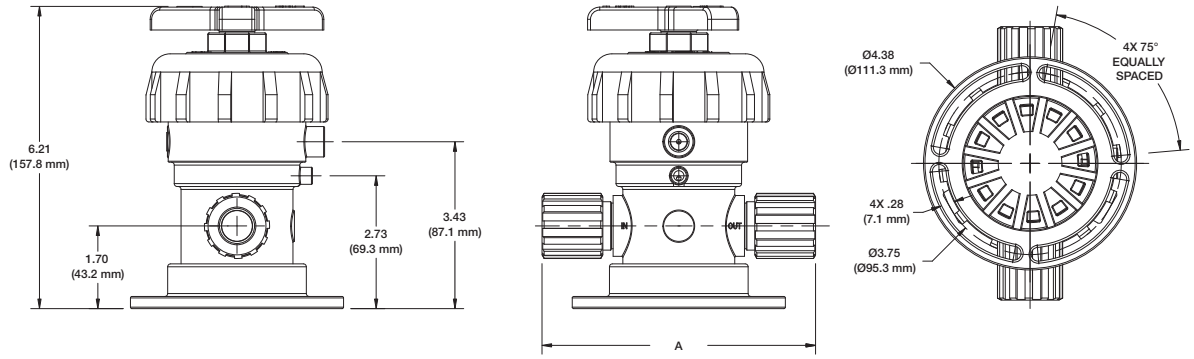
MV-16 Series

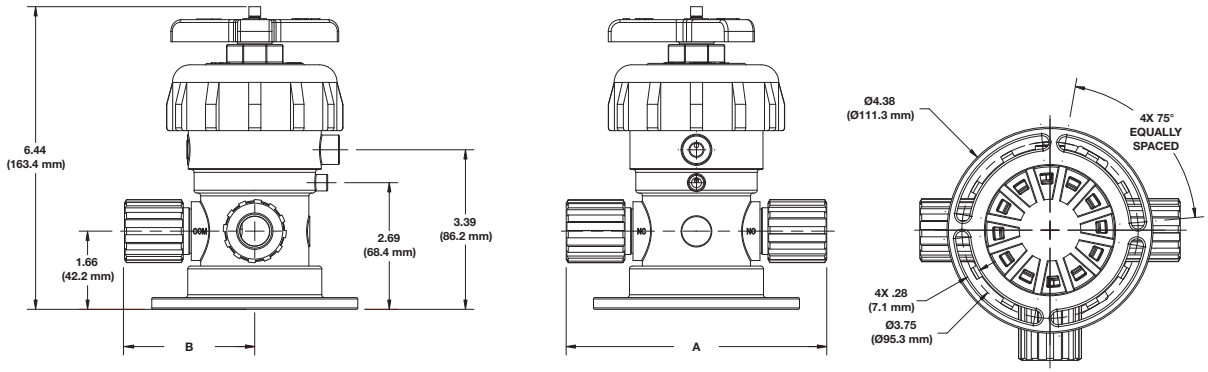
Dimensional Drawings

Note: Parenthesis dimensions are in “mm”

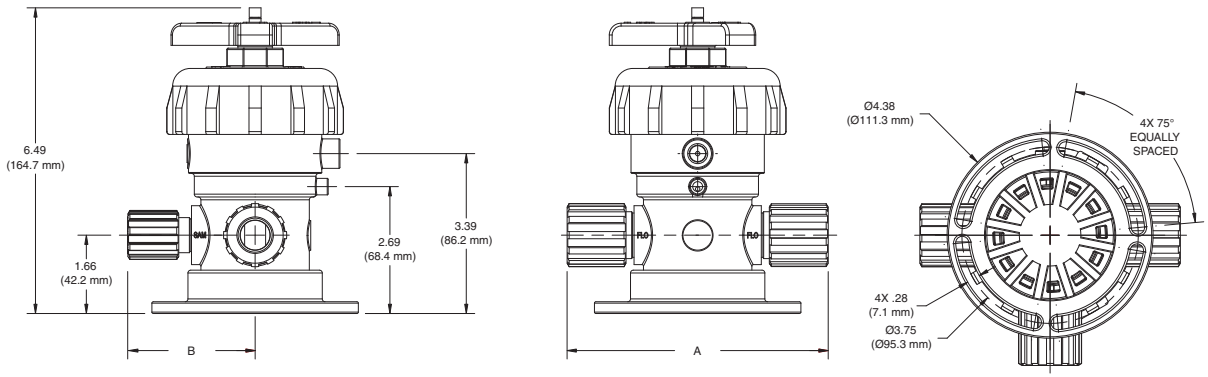
2 WAY VALVE



3 WAY VALVE



SAMPLING VALVE



MV-16 Series

Ordering Information

2 WAY VALVE

Model Number	Operation	End Size	End Type	A	
				inch	mm
MV-16-0612	MULTI-TURN	3/4"	PARFLARE	5.54	140.72
MV-16-0612-01		3/4"	PARFLARE	6.48	164.59
MV-16-0616		1"	PARFLARE	9.12	231.65
MV-16-0712		3/4"	PARBOND	5.90	149.86

3 WAY VALVE

Model Number	Operation	End Size	End Type	A		B	
				inch	mm	inch	mm
MV-16-3612	MULTI-TURN	3/4"	PARFLARE	5.54	140.72	2.81	71.37
MV-16-3612-01		3/4"	PARFLARE	6.48	164.59	2.81	71.37
MV-16-3616		1"	PARFLARE	9.12	231.65	4.56	115.82
MV-16-3712		3/4"	PARBOND	5.90	149.86	2.95	74.93
MV-16-4612	MULTI-TURN REVERSE NC/NO PORTING	3/4"	PARFLARE	5.54	140.72	2.81	71.37
MV-16-4612-01		3/4"	PARFLARE	6.48	164.59	2.81	71.37
MV-16-4616		1"	PARFLARE	9.12	231.65	4.56	115.82
MV-16-4712		3/4"	PARBOND	5.90	149.86	2.95	74.93

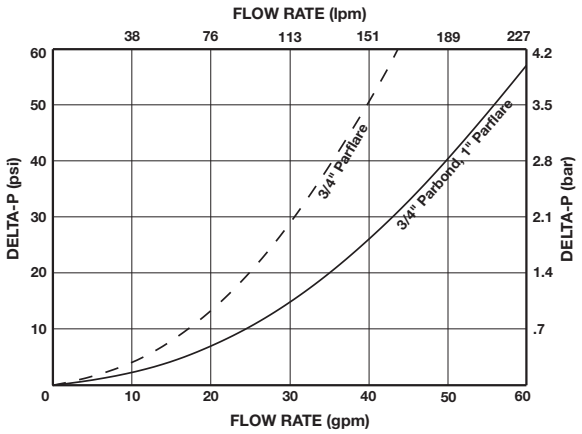
SAMPLING VALVE

Model Number	Operation	Through Port	Sampling Port	A		B	
				inch	mm	inch	mm
MV-16-5612-608	MULTI-TURN	3/4" PARFLARE	1/2" PARFLARE	5.54	140.72	2.71	68.83
MV-16-5612-612		3/4" PARFLARE	3/4" PARFLARE	5.54	140.72	2.81	71.37
MV-16-5612-712		3/4" PARFLARE	3/4" PARBOND	5.54	140.72	2.95	74.93
MV-16-5712-608		3/4" PARBOND	1/2" PARFLARE	5.90	149.86	2.71	68.83
MV-16-5712-612		3/4" PARBOND	3/4" PARFLARE	5.90	149.86	2.81	71.37
MV-16-5712-712		3/4" PARBOND	3/4" PARBOND	5.90	149.86	2.95	74.93

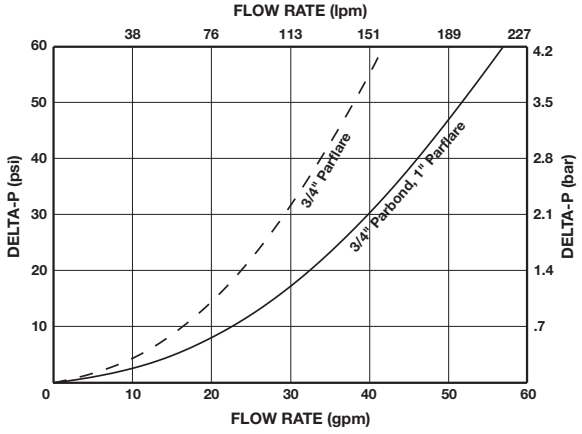
MV-16 Series

Flow Curves

2 WAY VALVE PRESSURE DROP VS. FLOW RATE



3 WAY VALVE PRESSURE DROP VS. FLOW RATE



Specifications

Materials of Construction	
Wetted Options	PFA, Modified PTFE
Non-wetted Options	PVDF, Viton, Fluoropolymer coated SS spring
Pressure Ranges	
Range	0 to 120 PSIG (8.3 bar)
Temperature Ranges	
Ambient	0° - 150° F (-17° - 66° C)
Fluid	0° - 266° F (-17° - 130° C)

Pressure ranges for operation at ambient temperatures. For additional information on materials of construction, functional performance and operating conditions, please contact factory.

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2 Way Valve Flow Capacity	
3/4" Parflare"	C_V 5.8
1" Parflare & 3/4" Parbond	C_V 7.9
3 Way Valve Flow Capacity	
3/4" Parflare"	C_V 5.4
1" Parflare & 3/4" Parbond	C_V 7.3
Flow Capacity	
Through Port	
3/4" Parflare & Parbond	C_V 13.0
Sample Port	
1/2" Parflare	C_V 2.3
3/4" Parflare	C_V 4.6
3/4" Parbond	C_V 6.9

LitPN: MV-16 Rev: - Date of Issue: 08/2011

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