

Miniature Pneumatic Diaphragm Valves

Our iPolymer Miniature
Pneumatic Diaphragm
Valves offer precision
performance under
extreme conditions.
Offered as 2-Way and
3-Way Valves with
four internal body
configurations and
three valve seat sealing
methods, our iPolymer
Miniature Pneumatic
Diaphragm Valves are
suitable for a wide range



of ultra clean to highly corrosive media

applications. Our all virgin PTFE wetted surface design is ideally suited for semiconductor, pharmaceutical, bio-medical and chemical process applications. Configurable with a PTFE Hard Seat, FKM (Viton Eq.) O-Ring Seat or FFKM (Kalrez Eq.) O-Ring Seat the iPolymer MTV series valve line provides unsurpassed chemical compatibility with a wide range of flow media. The all wetted PTFE body, valve stem and one piece diaphragm maintain a material inert boundary for ultra clean applications.

HIGHLIGHTS:

- PTFE design optimized for ultra clean and chemical compatibility.
- Lightweight pneumatic actuator with compact valve design.
- Pneumatic Actuator available in standard Polypro or Hi Temp Configuration.
- The PTFE diaphragm completely isolates the media from the actuator.
- 100% pneumatic driven does not require power only supply air.
- O-ring seat configurations for vacuum and complex media applications.
- Designed for aggressive media and elevated temperature.



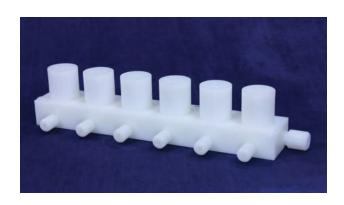


General Valve Parameters		
1/8" Orifice Cv (2W-NC, 2W-NO, 3W)	0.35 / 0.18 / 0.18	
1/4" Orifice Cv (2W-NC, 2W-NO, 3W)	0.60 / 0.35 / 0.35	
3/8" Orifice Cv (2W-NC, 2W-NO, 3W)	0.90 / 0.60 / 0.60	
Common Port Vacuum in-Hg (max)	25	
Actuator Pressure (range)	40 - 60 psi	
Media Temperature (range)	0 - 80°C / 32 – 176°F	
Ambient Temperature (range)	0 - 60°C / 32 – 140°F	

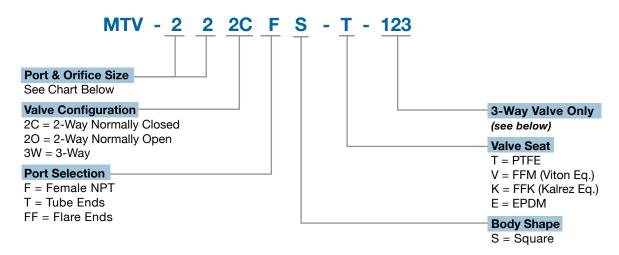
Maximum Port Pressure Rating	3-Way
Common Port	60 psi
Normally Closed Port	30 psi
Normally Open Port	60 psi
	2-Way NC
Inlet Port	60 psi
Outlet Port	30 psi
	2-Way NO
Inlet Port	60 psi
Outlet Port	60 psi

Other Options Available on Request:

- Valves with special port connections such as combinations of pipe, tube and flared ends.
- Valves without mounting studs or valves with 4 mounting studs (2 are standard).
- Manifold valve assemblies.



Miniature Pneumatic Diaphragm Valves: ORDERING FORMAT



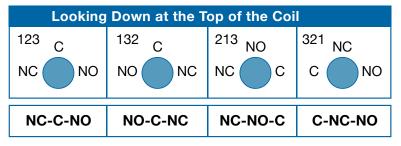
Consult Factory For Custom Configurations.

Porting w/ Max Orifice

PIF	E
22	1/8" FNPT & 0.125" Orifice
44	1/4" FNPT & 0.250" Orifice
66	3/8" FNPT & 0.375" Orifice
86	1/2" FNPT & 0.375" Orifice
TUBE	
21	1/8" TUBE & 0.063" Orifice
43	1/4" TUBE & 0.188" Orifice
65	3/8" TUBE & 0.313" Orifice
86	1/2" TUBE & 0.375" Orifice
FLARE	
42	1/4" FLARE & 0.125" Orifice
64	3/8" FLARE & 0.250" Orifice
86	1/2" FLARE & 0.375" Orifice

Port Arrangements

The port orientation can be arranged in four possible patterns on our 3-Way Pneumatic Valves. Please select one of the four arrangements.



STD = 123 & 132 are our standard port arrangements.

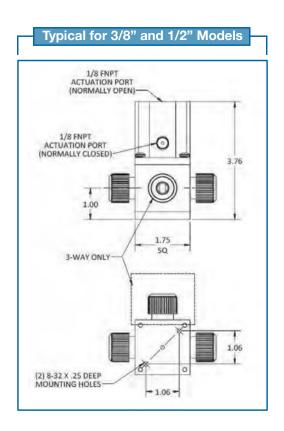
Auxiliary Plate ("AP"): For highly corrosive or caustic gas applications, such as Chlorine Gas, our Auxiliary Plate Option ("-AP") give an extra line of protection. The valve is configured with an auxiliary plate between the upper diaphragm and pneumatic actuator. The AP (Auxiliary Plate) is O-Ring sealed on the Stem of the diaphragm and supported at the outer body-to-actuator interface.

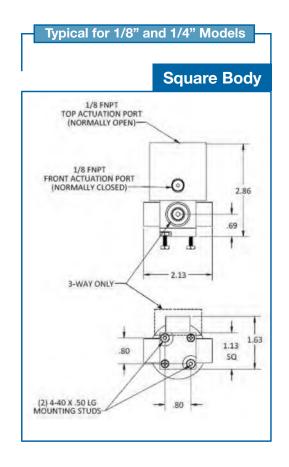
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Product Notes:

- 1. Please email Customer Service at info@pkm-konrad.ch
- 2. Call us for special applications. We can manufacture our Valves with special mounting and interface dimensions.
- 3. Upon request, alternate material selection from those listed will allow for expanding temperature ratings or other performance characteristics.
- 4. Unauthorized disassembly of this product will void the original factory one-year product warranty. For further details please contact us directly.

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