

# Furon® HPVM Diaphragm Valve

## Pneumatically Actuated, 2-Way (3/16" & 1/4" Orifice)



### Features/Benefits

- Pressure rated to 80 PSIG (552 kPa)
- Visual position indicator with provision for fiber-optic sensor
- Integral mounting base with top or bottom mount standard
- High purity PFA injection molded body with PTFE diaphragm
- Common port height with manual and 3-way versions
- Semi F57 Compliant

### Operation

- Pneumatically actuated 2 way diaphragm valve is available in normally closed and normally open configurations

### Applications

- Designed for use in ultrapure deionized water and aggressive chemical applications
- Market applications include Semiconductor, Flat Panel, and Photovoltaic manufacturing; Chemical Processing and Biomedical industries

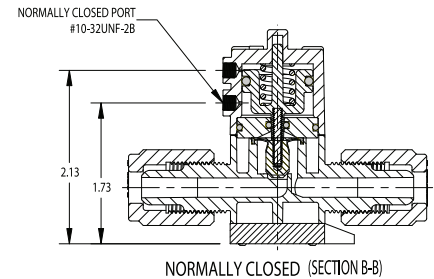
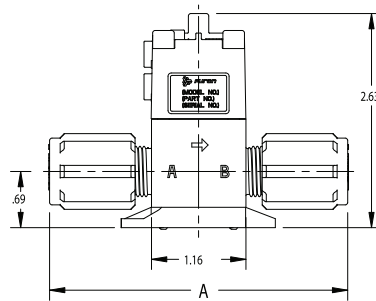
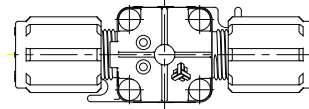
# Furon® HPVM Diaphragm Valve Pneumatically Actuated, 2-Way

## Ordering Information

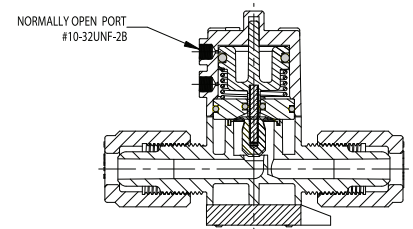
DESCRIPTION	END CONNECTION	ORIFICE	PORT SIZE	A
HPVM2-744-NC	FUSEBOND™	1/4	1/4	1.66 (42mm)
HPVM2-F34-NC	FLAREGRIP® II	3/16	1/4	3.51 (89mm)
HPVM2-F46-NC	FLAREGRIP II	1/4	3/8	3.71 (94mm)
HPVM2-S30044-NC*	PILLAR S300	3/16	1/4	2.56 (65mm)
HPVM2-744-NO	FUSEBOND	1/4	1/4	1.66 (42mm)
HPVM2-F34-NO	FLAREGRIP II	3/16	1/4	3.51 (89mm)
HPVM2-F46-NO	FLAREGRIP II	1/4	3/8	3.71 (94mm)
HPVM2-S30044-NO*	PILLAR S300	3/16	1/4	2.56 (65mm)

## HPVM 2-Way Pneumatic

- HPV products are also available quarter-turn multi-turn and 3-way configurations with common port heights
- Custom multi-valve manifold designs available to implement complex media flow path requirements where minimal footprint is critical
- Optional fiber optic position sensor detects valve position and provides signal output



NORMALLY CLOSED (SECTION B-B)



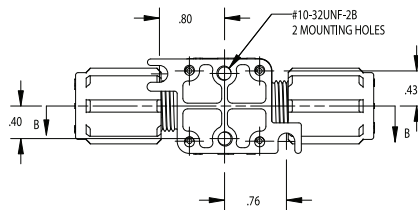
NORMALLY OPEN (SECTION B-B)

## Non-Standard Options

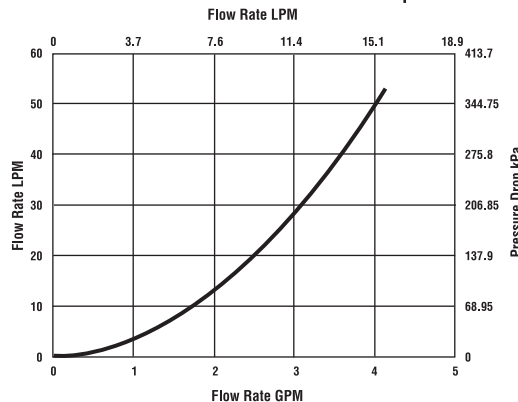
- DI bypass option
- Stroke limit option
- PFA Fine Thread Flare nuts
- Suck Back Dispense/Combo Valve

## Specifications and Performance

- Maximum Operating Temperature: 176°F (80°C)
- Actuator Pressure (Air): 60 PSIG (414 kPa) to 100 PSIG (689 kPa)
- Maximum Operating Pressure (Water): 80 PSIG (552 kPa)
- Vacuum: 25" Hg
- C<sub>v</sub> Factor: 0.7
- Body: High Purity PFA
- Diaphragm: Modified PTFE
- Actuator Housing: Polypropylene
- Stainless steel actuation port inserts (#10-32 UNF-28) available



## HPVM2-F46 Flow Vs. Pressure Drop



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FuseBond™ is a trademark.

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