



FURON®
Pure Performance

Furon® HPV M Valve

Pneumatically Actuated, 3-Way Valve, (1/4" Orifice)

Description

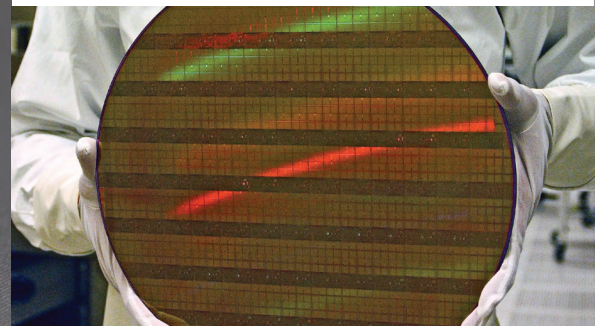
Pneumatically actuated, 3-way diaphragm valve.

Furon HPV M Valves are compact and robust, offering superior performance and reliability in applications involving aggressive chemistries or abrasive slurries. Featuring a compact footprint with common port height among all configurations, Furon HPV M Valves allow for ease of installation and optimum use of precious space. Additionally, Furon HPV M valves feature flow paths specially designed to minimize entrapment of liquids within the valve.

Applications

Furon HPV M Valves are ideal for use in the semiconductor industry, or other applications requiring high purity and/or superior chemical resistance.

- Designed for use in ultrapure deionized water and aggressive chemical applications
- Suitable for use in abrasive slurry
- Market applications include Semiconductor, Flat Panel, Photovoltaic, and Chemical Processing



Features and Benefits

- Pressure rated to 80 PSIG (552 kPa)
- Visual position indicator with option 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 among all HPV M configurations simplifies installation
- 100% PTFE wetted flow path
- Patented valve design
- HPV M valve designs have been successfully tested for more than 1 million cycles

ASK AN ENGINEER


SAINT-GOBAIN

Furon HPVM-Valve

Part Number	End Connection	Orifice (in.)	Port Size (in.)	A	B	C
HPVM3-F44	Flaregrip® II	1/4	1/4	3.5 (89 mm)	1.7 (44.5 mm)	1.7 (44.5 mm)
HPVM3-F46	Flaregrip II	1/4	3/8	3.7 (94 mm)	1.8 (47 mm)	1.8 (47 mm)
HPVM3-S30044	Super 300®	1/4	1/4	2.6 (44 mm)	1.3 (22 mm)	1.3 (22 mm)
HPVM3-S30046	Super 300	1/4	3/8	3.0 (50 mm)	1.5 (25 mm)	1.5 (22 mm)

Ordering Specifications

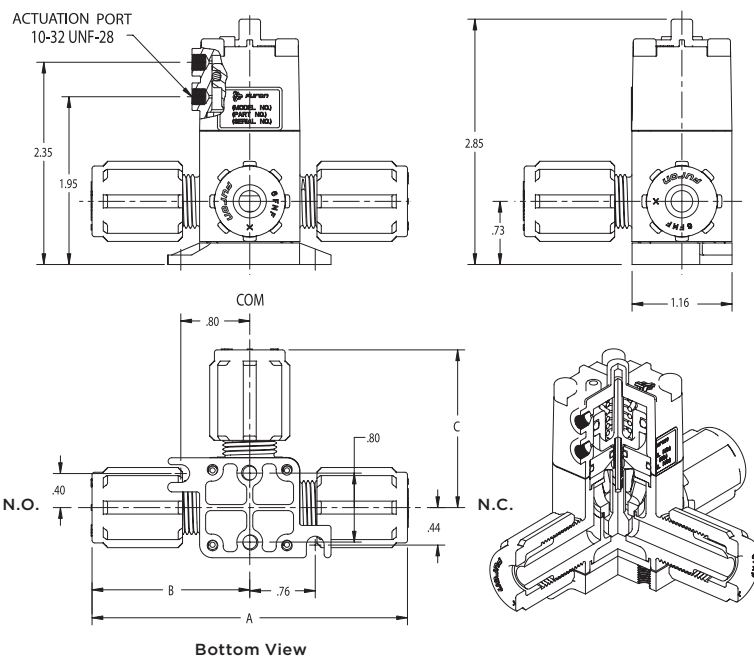
	1/4" Orifice
Operating Pressure	80 psig (5.5 bar)
Back Pressure	80 psig (5.5 bar)
Flow	C _v 0.70
Operating Temperature	203°F (95°C)
Actuator Pressure	60 - 100 PSIG (4.1 - 6.9 bar)
Body	PTFE
Diaphragm	PTFE

HCl more than 2.1 million cycles
HF more than 2.1 million cycles
Slurry more than 1.6 million cycles

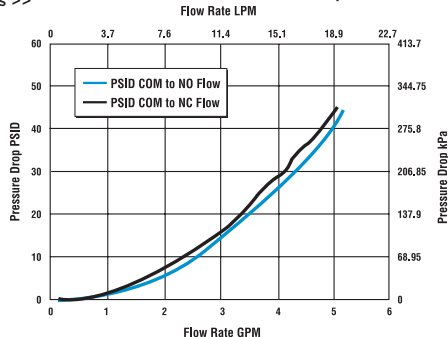
Standard Options

- PFA Flare nuts (add-3)
- Other end connection types available:
 - FNPT
 - Pipe
 - Tube End
- Fiber optic position sensor
- Stainless steel actuation port insert (#10-32)
- Alternative flow patterns
- Custom manifolds

[Please consult factory](#) for further details >>



HPV3-F46 Flow Vs. Pressure Drop



U.S. Patents 5575311



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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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