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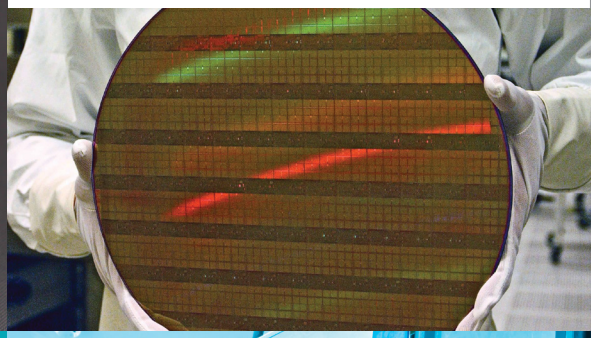
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FURON®
Pure Performance



# Furon® UPM Valve



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

### Description

Furon UPM Valves provide the ultimate in performance and reliability for your Ultra-High Purity applications. With a wetted flow path of virgin PTFE and high purity molded PFA, the UPM Valves assure compatibility with a wide range of harsh and aggressive media as well as the highest purity standards. Additionally, UPM valves offer best in class life expectancy.

### Applications

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

- Designed for use in ultrapure deionized water and aggressive chemical applications
- Ideal for use in chemical distribution systems as well as OEM equipment
- Market applications include Semiconductor, Flat Panel, Photovoltaic, and Chemical Processing

### Features and Benefits

- Superior life expectancy over competitive valves
- All virgin PTFE/high purity molded PFA wetted flow path
- Assembled and double bagged in class 100 clean room
- Optional manual lockout offers protection for maintenance stall
- No exposed metallics
- Integral swivel base for freedom and ease of mounting
- Leak detection port is standard

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# Furon® UPM Valve

www.furon.com

## Furon UPM Valve - Pneumatic 2-Way

| Part Number | End Connection | Orifice (in) | Port Size (in) | A (in) | B (in) | C (in) | ØD (in) | E (in) |
|---|---|---|---|---|---|---|---|---|
| UPM2-F44-NC-VI | FlareGrip® II | 1/4 | 1/4 | 4.30 (109.22 mm) | 1.38 (35.05mm) | 3.38 (85.85 mm) | 2.12 (53.85 mm) | 2.72 (69.09 mm) |
| UPM2-F46-NC-VI | FlareGrip® II | 1/4 | 3/8 | 4.70 (119.38 mm) | | | | |
| UPM2-744-NC-VI | FuseBond™ | 1/4 | 1/4 | 4.90 (124.46 mm) | | | | |
| UPM2-F88-NC-VI | FlareGrip® II | 1/2 | 1/2 | 5.60 (142.24 mm) | 1.70 (43.18 mm) | 3.97 (100.84 mm) | 2.88 (73.15 mm) | 3.62 (91.95 mm) |
| UPM2-F812-NC-VI | FlareGrip® II | 1/2 | 3/4 | 5.90 (149.86 mm) | | | | |
| UPM2-788-NC-VI | FuseBond™ | 1/2 | 1/2 | 5.60 (142.24 mm) | | | | |
| UPM2-7812-NC-VI | FuseBond™ | 1/2 | 3/4 | 5.90 (149.86 mm) | | | | |
| UPM2-S30088-NC-VI | Nippon Pillar Super 300® | 1/2 | 1/2 | 5.50 (139.70 mm) | | | | |
| UPM2-S300812-NC-VI | Nippon Pillar Super 300® | 1/2 | 3/4 | 7.20 (182.88 mm) | | | | |
| UPM2-F1212-NC-VI | FlareGrip® II | 3/4 | 3/4 | 6.30 (160.02 mm) | 1.90 (48.26 mm) | 4.24 (107.70 mm) | 3.40 (86.36 mm) | 4.20 (106.68 mm) |
| UPM2-F1216-NC-VI | FlareGrip® II | 3/4 | 1 | 6.90 (175.26 mm) | | | | |
| UPM2-71212-NC-VI | FuseBond™ | 3/4 | 3/4 | 5.90 (149.86 mm) | | | | |
| UPM2-7126-NC-VI | FuseBond™ | 3/4 | 1 | 5.80 (147.32 mm) | | | | |
| UPM2-S3001212-NC-VI | Nippon Pillar Super 300® | 3/4 | 3/4 | 8.00 (203.20 mm) | | | | |

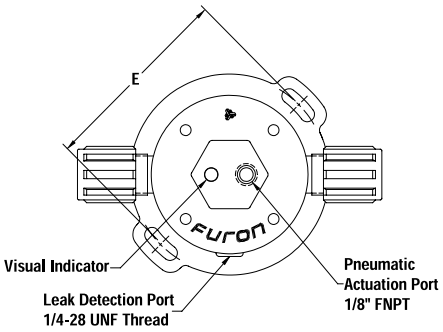
## Standard Options (Please consult the factory for more details)

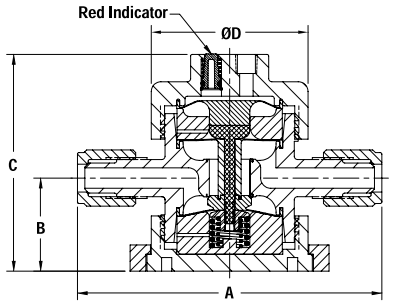
- Normally Open (NO) versions (Replace NC with NO in part number)
- PFA Flare nuts (add -3)
- Other end connection types available. Please consult factory for:
  - FNPT
  - Sanitary flange
  - Tube end
  - Other end connection types available (please consult factory >>)
- Slurry version (add -SY; refer to separate datasheet)
- High temperature version, 150°C/302°F
  (add -HT-SB; refer to separate datasheet)
- Stroke limiter (-SL)
- DI Micro-adjust bypass (add -ADJ for knob or -ADK for screw)
- Sampling valve (UPMS version) (please consult factory >>)
- Fiber optic position sensor (please consult factory >>)

## Operating Specifications

| | |
|---|---|
| Operating Pressure | 100 psig (6.9 bar) at room temperature |
| Back Pressure | 100 psig (6.9 bar) at room temperature |
| Flow | $C_V$ 0.8 (1/4"), $C_V$ 3.2 (1/2"), $C_V$ 7.0 (3/4") |
| Operating Temperature | Max. Ambient: 122°F (50°C)<br>Media: -63°F to 203°F (-53°C to 95°C) |
| Actuator Pressure | 70 - 90 PSIG (4.8 - 6.2 bar) |
| Body | PFA |
| Diaphragm | Modified PTFE |
| Top Cap | ETFE |

U.S. Patent 5,261,442





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