

Furon® UPM 1000 Diaphragm Valve, Slurry Option

Pneumatically Actuated 3-Way (3/4" Orifice)



Features/Benefits

- Superior life expectancy over competitive valves in slurry applications
- All virgin PTFE/high purity molded PFA wetted flow path
- Double diaphragm containment with integral leak detection capability
- Fully swept internal flow path with no entrapment areas
- Assembled and double bagged in Class 100 clean room
- No exposed metallics
- A unique blue visual position indicator for quick visual identification is standard
- Integral mounting base provides simple and secure mounting

Description

The Furon® UPM Slurry valve is a 3-way valve designed to meet the rigorous demands in the transfer of CMP slurries. The valve offers users the confidence and reliability that you expect in demanding applications. The UPM Slurry valve has been successfully tested and proven reliable to 500,000 cycles in Cabot Semi-Sperse® SS-25.

Applications

- The Furon® UPM Slurry valve is designed specifically to be used in highly aggressive slurry CMP applications.
- UPM Slurry valve is ideal for applications that demand high C_v flow factor
- Ideal for diverting slurry flow path
- Designed to handle up to 120 PSIG (827 kPa) forward pressure

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Pneumatically Actuated, 3-Way, 3/4" Orifice

Ordering Information

| Description | Orifice | End Connection | Port Size | A | B | C | D | ØE | F | G |
|------------------|---------|----------------|-----------|------------------|--------------------|---------------------|---------------------|--------------------|-----------------|---------------------|
| UPM3-71212-VI-SY | 3/4" | Fuse Bond | 3/4" | 5.90" (149.86mm) | 1.88" (47.70mm) | 4.22" (107.21mm) | 4.25" (107.84mm) | 3.40" (86.36mm) | 2.95" (74.93mm) | 4.20" (106.68mm) |
| UPM3-71216-VI-SY | 3/4" | Fuse Bond | 1" | 5.80" (147.32mm) | | | | | 2.90" (73.66mm) | |
| UPM3-F1212-VI-SY | 3/4" | Flare Grip II | 3/4" | 6.31" (160.33mm) | | | | | 3.16" (80.17mm) | |
| UPM3-F1216-VI-SY | 3/4" | Flare Grip II | 1" | 6.90" (175.26mm) | | | | | 3.45" (87.63mm) | |

Standard Options

- Standard Options are readily available with slightly longer lead times
- Please contact your local distributor or factory for part number, price and delivery

Non-Standard Options

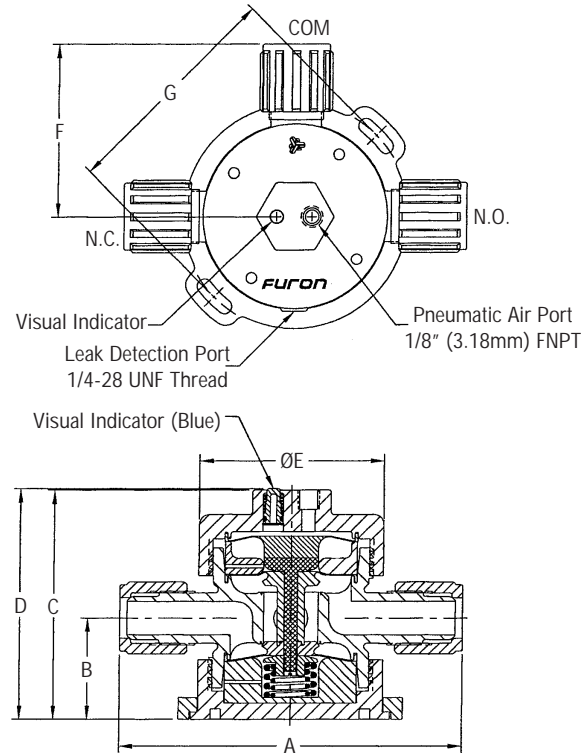
- Close couple Flare Grip® end connections for reduced footprint in multi-component systems
- Custom end connections available
- Non-standard options and custom configurations are available upon request. Please contact your local distributor or factory for part number, price and delivery

Specifications & Performance

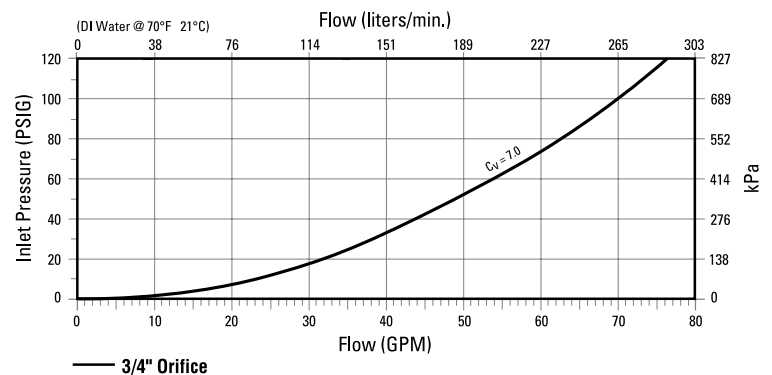
- Ambient Operating Temperature: -63°F to 203°F (-53°C to 95°C)
- Media Operating Temperature: -63°F to 203°F (-53°C to 95°C)
- Air Actuator Pressure: 70 PSIG (483 kPa) to 100 PSIG (689 kPa)
- Maximum Forward Pressure ±: 120 PSIG (827 kPa) @ room temperature
- Back Pressure: 40 PSIG (276 kPa) to 40 PSIG (276 kPa)

Notes

- * When selecting Flare Grip® II ends, we recommend end connections that are larger than the valve orifice size in order to achieve full flow.
- ** Calculated performance data. This product is Class 100 clean room assembled and double bagged Pneumatic Air Port on top of valve has standard 1/8" (3.18 mm) FNPT port. Leak detection port on side has standard port size of 1/4-28.



Inlet Pressure Vs Flow**



Saint-Gobain Performance Plastics

7301 Orangewood Avenue
 Garden Grove, CA 92841-1411
 Tel: (714) 630-5818
 Fax: (714) 688-2614
 USA Toll Free: (800) 833-5661

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 Semi-Sperse® is a registered trademark of Cabot Microelectronics Corporation..



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