

Furon® UPM 1000 Diaphragm Valve

Manually Actuated 2-Way Multi-Turn (1/4", 1/2", 3/4" Orifice)



Features/Benefits

- Superior life expectancy over competitive valves
- All virgin PTFE/high purity molded PFA wetted flow path
- Fully swept internal flow path with no entrapment areas to eliminate bacteria growth
- Assembled and double bagged in class 100 clean room
- No exposed metallics
- Integral swivel base for freedom and ease of mounting
- Leak detection port is standard

Operation

- Manually operated multi-turn throttle valve
- Designed to handle up to 100 PSIG (690 kPa) pressure

Applications

- Designed for primary use in the Semiconductor industry for transfer of highly aggressive ultrapure chemicals and de-ionized water
- UPM 1000 series valve is ideal for applications that demand high-pressure capabilities and a high C_v flow factor
- Performs throttling functions to reduce flow rates upstream from sensitive devices such as filters
- Volumetric control in process tank overflow and refresh rates
- Performs approximate metering functions

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Ordering Information

| PART NO. | ORIFICE | END CONNECTION | PORT SIZE | A | B | C | ØD | E |
|---------------|---------|----------------|-----------|--------------|-------------|--------------|-------------|--------------|
| UPM2-144-MT | 1/4" | FNPT | 1/4" | 3.00 (76mm) | | | | |
| UPM2-744-MT | 1/4" | FUSE BOND PIPE | 1/4" | 4.90 (125mm) | | | | |
| UPM2-F44-MT | 1/4** | FLARE GRIP™ II | 1/4" | 4.38 (111mm) | | | | |
| UPM2-F46-MT | 1/4** | FLARE GRIP II | 3/8" | 4.72 (120mm) | 1.38 (35mm) | 3.78 (96mm) | 2.00 (51mm) | 2.72 (69mm) |
| UPM2-244-MT | 1/4** | GRAB SEAL® | 1/4" | 3.84 (98mm) | | | | |
| UPM2-246-MT | 1/4** | GRAB SEAL | 3/8" | 4.60 (117mm) | | | | |
| UPM2-188-MT | 1/2" | FNPT | 1/2" | 3.60 (91mm) | | | | |
| UPM2-788-MT | 1/2" | FUSE BOND PIPE | 1/2" | 5.60 (142mm) | | | | |
| UPM2-F88-MT | 1/2** | FLARE GRIP II | 1/2" | 5.82 (148mm) | | | | |
| UPM2-F812-MT | 1/2** | FLARE GRIP II | 3/4" | 6.30 (160mm) | 1.70 (43mm) | 5.00 (127mm) | 2.90 (74mm) | 3.62 (92mm) |
| UPM2-288-MT | 1/2** | GRAB SEAL | 1/2" | 5.12 (130mm) | | | | |
| UPM2-2812-MT | 1/2** | GRAB SEAL | 3/4" | 5.80 (147mm) | | | | |
| UPM2-71212-MT | 3/4" | FUSE BOND PIPE | 3/4" | 5.90 (150mm) | | | | |
| UPM2-F1212-MT | 3/4** | FLARE GRIP II | 3/4" | 6.34 (161mm) | | | | |
| UPM2-F1216-MT | 3/4** | FLARE GRIP II | 1" | 7.62 (194mm) | 1.87 (48mm) | 5.30 (135mm) | 3.40 (86mm) | 4.20 (107mm) |
| UPM2-21212-MT | 3/4** | GRAB SEAL | 3/4" | 5.82 (148mm) | | | | |
| UPM2-21216-MT | 3/4** | GRAB SEAL | 1" | 7.08 (180mm) | | | | |

Standard Options

- High Temperature version. Please consult factory for all high temperature applications
- 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 welcome
- Please consult factory for part number, price and delivery

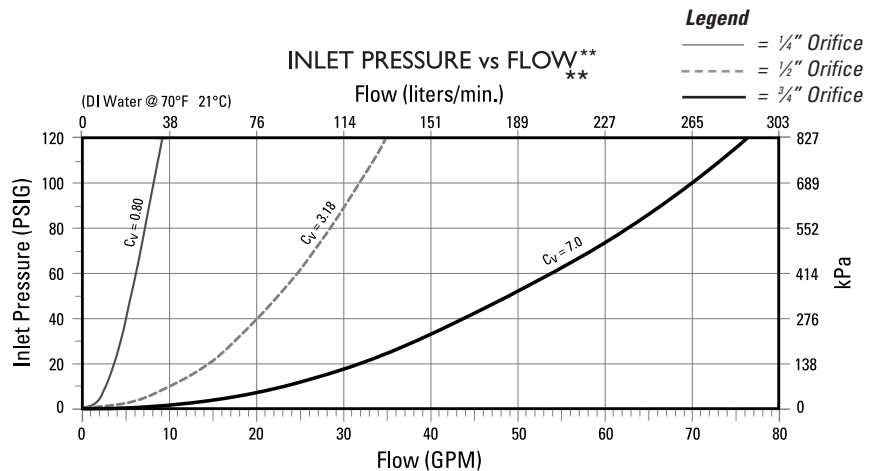
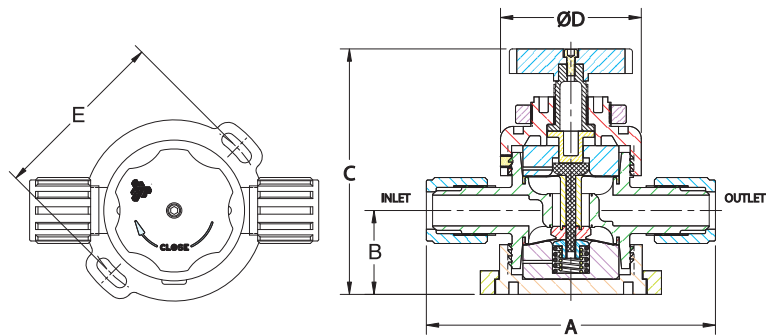
Specifications and Performance

- Ambient operating temperature: -63°F to 158°F (-53°C to 70°C)
- Media operating temperature: -63°F to 194°F (-53°C to 90°C)
- Maximum forward pressure: 100 PSIG (690kPa) @ room temperature
- Maximum back pressure: 100 PSIG (690kPa) @ room temperature

For applications in hydrochloric acid (HCl), please consult the factory.

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Notes

* When selecting either Flare Grip® or Grab Seal™ 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. Leak detection port on side has standard port size of 1/4 -28



US Patent 5,261,442

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Flare Grip® is a registered trademark.

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