

Furon® UPM 1000 Diaphragm Valve

Manually Actuated 2-Way 1/4 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
- 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

Operation

- Manually operated on/off valve, quarter turn
- 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 Cv flow factor

Furon® UPM 1000 Diaphragm Valve — Manually Actuated, 2-Way 1/4 Turn

Ordering Information

DESCRIPTION	ORIFICE	END CONNECTIONS	PORT SIZE	A	B	C	ØD	E
UPM2-144-M	1/4"	FNPT	1/4"	3.00 (76.20mm)	1.38 (35.05mm)	4.13 (104.90mm)	2.12 (53.85mm)	2.72 (69.09mm)
UPM2-744-M	1/4"	FUSE BOND PIPE	1/4"	4.90 (124.46mm)				
UPM2-F44-M	1/4"	FLARE GRIP II	1/4"	4.30 (109.22mm)				
UPM2-F46-M	1/4"	FLARE GRIP II	3/8"	4.60 (117mm)				
UPM2-244-M	1/4"	GRAB SEAL	1/4"	3.84 (97.54mm)				
UPM2-246-M	1/4"	GRAB SEAL	3/8"	4.60 (116.84mm)	1.70 (43.18mm)	4.97 (126.24mm)	2.88 (73.15mm)	3.62 (91.95mm)
UPM2-188-M	1/2"	FNPT	1/2"	3.60 (91.44mm)				
UPM2-788-M	1/2"	FUSE BOND PIPE	1/2"	5.60 (142.24mm)				
UPM2-F88-M	1/2"	FLARE GRIP II	1/2"	5.62 (142.75mm)				
UPM2-F812-M	1/2"	FLARE GRIP II	3/4"	5.88 (149.35mm)				
UPM2-288-M	1/2"	GRAB SEAL	1/2"	5.12 (130.05mm)				
UPM2-2812-M	1/2"	GRAB SEAL	3/4"	5.80 (147.32mm)	1.87 (47.50mm)	5.33 (135.38mm)	3.42 (86.86mm)	4.20 (106.68mm)
UPM2-71212-M	1/2"	FUSE BOND PIPE	3/4"	5.90 (149.86mm)				
UPM2-F1212-M	1/2"	FLARE GRIP II	3/4"	6.30 (160.02mm)				
UPM2-F1216-M	1/2"	FLARE GRIP II	1"	6.90 (175.26mm)				
UPM2-21212-M	1/2"	GRAB SEAL	3/4"	5.82 (147.83mm)				
UPM2-21216-M	1/2"	GRAB SEAL	1"	7.08 (179.83mm)				

Standard Options

ADJ = Micro Adjust Bypass for DI water applications (2-Way only).

High Temperature version.

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.

End Connections with sanitary style fittings.

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 266°F (-53°C to 130°C)
- Media Operating Temperature: -63°F to 266°F (-53°C to 130°C)
- Maximum Forward Pressure: 100 PSIG (690 kPa) @ room temperature
- Maximum Back Pressure: 100 PSIG (690 kPa) @ room temperature

For applications in concentrated HCl (Hydrochloric Acid) please consult the factory.

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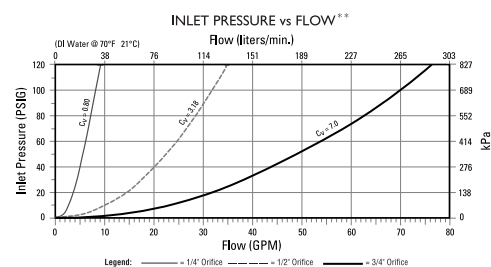
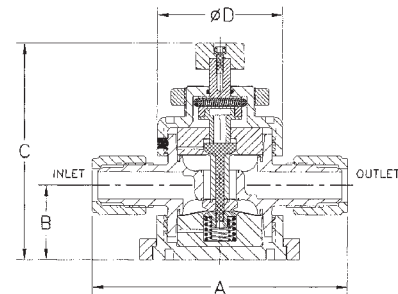
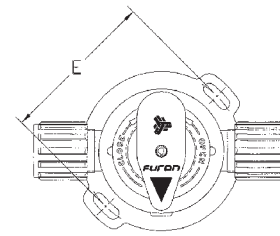
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US Patent 5,261,442

Furon® is a registered trademark.
Flare Grip® is a registered trademark.
Grab Seal™ is a trademark.



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.

12-month **Limited Warranty:** For a period of 12 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in manufacturing. This company's only obligation will be to provide replacement product for any material proven to have such a defect, or at SGPPL's option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct, consequential or incidental, arising out of the use, misuse, or inability to use this product. SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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