

# Furon® UPM 1000 Diaphragm Valve

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



### Features/Benefits

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

### Operation

- Pneumatically actuated on/off valve using air pressure
- Designed to handle up to 100 PSIG (689 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
- Distribution and point of use shutoff

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### Ordering Information

PART NO.	ORIFICE	END CONNECTION	PORT SIZE	A	B	C	D	E
UPM2-144-NC-VI	1/4"	FNPT	1/4"	3.00 (76.20mm)	1.38 (35.05mm)	3.12 (79.25mm)	2.12 (53.85mm)	2.72 (69.09mm)
UPM2-744-NC-VI	1/4"	Fuse Bond Pipe	1/4"	4.90 (124.46mm)				
UPM2-F44-NC-VI*	1/4"	Flare Grip II	1/4"	4.38 (111.25mm)				
UPM2-F46-NC-VI*	1/4"	Flare Grip II	3/8"	4.72 (119.89mm)				
UPM2-244-NC-VI*	1/4"	Grab Seal	1/4"	3.84 (97.54mm)				
UPM2-246-NC-VI*	1/4"	Grab Seal	3/8"	4.60 (116.84mm)				
UPM2-188-NC-VI	1/2"	FNPT	1/2"	3.60 (91.44mm)	1.70 (43.18mm)	3.72 (94.49mm)	2.90 (73.66mm)	3.62 (91.95mm)
UPM2-788-NC-VI	1/2"	Fuse Bond Pipe	1/2"	5.60 (142.24mm)				
UPM2-F88-NC-VI*	1/2"	Flare Grip II	1/2"	5.82 (147.83mm)				
UPM2-F812-NC-VI*	1/2"	Flare Grip II	3/4"	6.30 (160.02mm)				
UPM2-288-NC-VI*	1/2"	Grab Seal	1/2"	5.12 (130.05mm)				
UPM2-F8/F88-NC-VI*	1/2"	Flare Grip II (Female to Male)	1/2"	5.40 (137.16mm)				
UPM2-S30088-NC-VI	1/2"	Nippon Pillar S 300	1/2"	6.30 (160.02mm)	1.70 (43.18mm)	3.72 (94.49mm)	2.90 (73.66mm)	3.62 (91.95mm)
UPM2-S300812-NC-VI	1/2"	Nippon Pillar S 300	3/4"	7.20 (182.88mm)				
UPM2-71212-NC-VI	3/4"	Fuse Bond Pipe	3/4"	5.90 (149.86mm)				
UPM2-F1212-NC-VI*	3/4"	Flare Grip II	3/4"	6.34 (161.04mm)				
UPM2-F1216-NC-VI*	3/4"	Flare Grip II	1"	7.62 (193.55mm)				
UPM2-F1216-NC-VI*	3/4"	Flare Grip II	1"	7.62 (193.55mm)	1.87 (47.50mm)	4.06 (103.12mm)	3.40 (86.36mm)	4.20 (106.68mm)

### Options

- Micro Adjust Bypass for DI water applications with 2-way valves (UPM2 - \* - ADJ)
- De-Energized Position normally open (NO) (UPM2 - \* - NO)
- High Temperature version. (UPM2 - \* - \* - HT)

### Specifications And Performance

- Ambient Operating Temperature: -0°F to 203°F (-17°C to 95°C)
- Media Operating Temperature: -0°F to 203°F (-17°C to 95°C)
- Air Actuator Pressure: 70 PSIG (483 kPa) to 90 PSIG (621 kPa)
- Maximum Forward Pressure: 100 PSIG (689 kPa) @ room temp.
- Maximum Back Pressure: 100 PSIG (689 kPa) @ room temp.

### 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.

#### Saint-Gobain Performance Plastics-USA

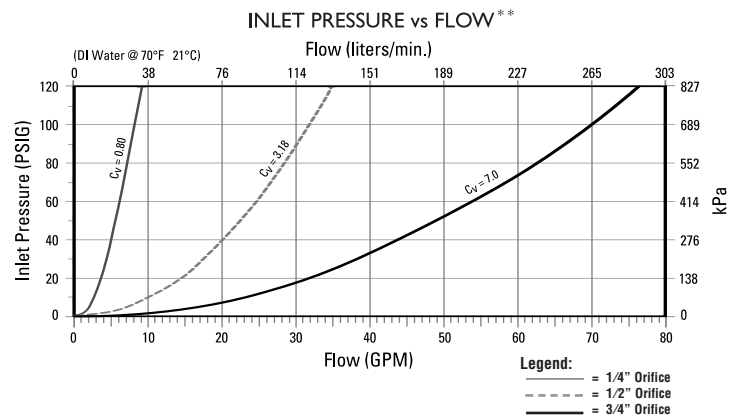
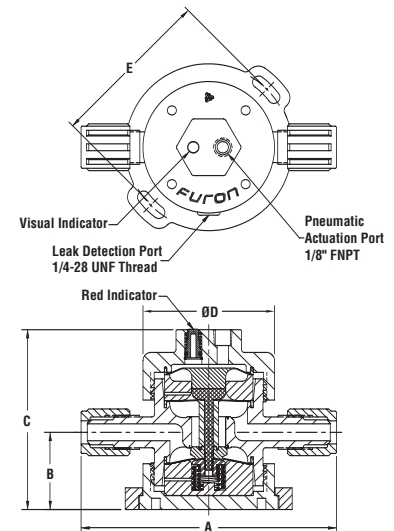
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