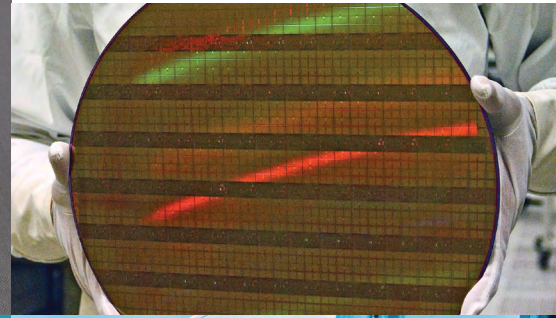




**FURON**<sup>®</sup>  
Pure Performance



## Furon<sup>®</sup> UPX Valve

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

#### Description

Furon<sup>®</sup> UPX 2000 Valves are specifically designed for safe and reliable transfer of highly aggressive chemicals, including concentrated HF and HCl. UPX 2000 Valves are specifically designed for safe and reliable transfer of highly aggressive chemicals, including concentrated HF and HCl. Our proprietary technology protects the valve's working components from degradation due to chemical attacks. The wetted flow path constructed from 100% virgin PFA, assuring compliance with the highest purity standards. Additionally, the UPX Valves are capable of handling a wide variety of abrasive slurries and have a long track record of success in slurry applications.

#### Applications

Furon<sup>®</sup> UPX 2000 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
- Suitable for use in abrasive slurry
- Compatible with concentrated HF and HCl
- Market applications include Semiconductor, Flat Panel, Photovoltaic, and Chemical Processing

#### Features and Benefits

- Superior life expectancy over competitive valves
- Suitable for use in all chemicals, including concentrated HF and HCl
- Suitable for use in abrasive slurries
- 100% virgin PTFE/PFA flow path
- Double diaphragm containment with standard leak detection port
- No exposed metallics
- Integral swivel base for freedom and ease of mounting

## Furon® UPX Valve

Part Number	End Connection	Orifice (in.)	Port Size (in.)	A	B	C	ØD	E
UPX2-F44-MT	Flaregrip® II	1/4	1/4	4.30 (109.22 mm)	1.38 (35.05 mm)	3.97 (97 mm)	2.12 (53.85 mm)	2.72 (69.09 mm)
UPX2-F46-MT	Flaregrip® II	1/4	3/8	4.60 (116.84 mm)				
UPX2-744-MT	Fusebond™	1/4	1/4	4.90 (124.46 mm)				
UPX2-F88-MT	Flaregrip® II	1/2	1/2	5.62 (142.75 mm)	1.70 (43.18 mm)	4.22 (107 mm)	2.90 (73.66 mm)	3.62 (91.95 mm)
UPX2-F812-MT	Flaregrip® II	1/2	3/4	5.88 (149.35 mm)				
UPX2-788-MT	Fusebond™	1/2	1/2	5.60 (142.24 mm)				
UPX2-7812-MT	Fusebond™	1/2	3/4	6.62 (168.15 mm)				
UPX2-S30088-MT	Super 300®	1/2	1/2	5.50 (139.70 mm)				
UPX2-S300812-MT	Super 300®	1/2	3/4	7.20 (182.88 mm)				
UPX2-F1212-MT	Flaregrip® II	3/4	3/4	6.90 (175.26 mm)	1.87 (47.50)	4.06 (103.12)	3.40 (86.36)	4.20 (106.68)
UPX2-F1216-MT	Flaregrip® II	3/4	1	7.08 (180.00 mm)				
UPX2-71212-MT	Fusebond™	3/4	3/4	5.90 (149.86 mm)				
UPX2-71216-MT	Fusebond™	3/4	1	5.80 (147.32 mm)				
UPX2-S300-1212-MT	Super 300®	3/4	3/4	8.00 (203.20 mm)				
UPX2-S300-1216-MT	Super 300®	3/4	1	8.00 (203.20 mm)				

### Standard Options

- PFA Flare nuts (add -3)
- Other end connection types available. Please consult the factory for:
  - FNPT
  - Sanitary Flange
  - Tube End
  - Others not listed
- Alternative flow patterns (please consult factory)

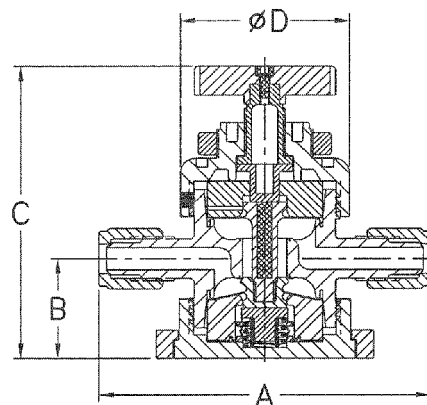
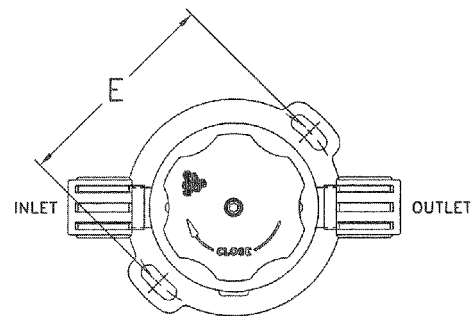
### Operating Specifications

Operating Pressure	100 psig (6.9 bar) at room temperature
Back Pressure	100 psig (6.9 bar) at room temperature
Flow	C <sub>v</sub> 0.8 (1/4"), C <sub>v</sub> 3.2 (1/2"), C <sub>v</sub> 7.0 (3/4")
Max Operating Temperature*	230°F (110°C)**
Body	PFA
Diaphragm	Modified PTFE
Top Cap	ETFE

\* Please contact factory for higher temperature

\*\* It's recommended to use a FuseBond™ or Nippon Pillar connection over flare fitting for high temperature application

U.S. Patents 5,967,173 & 5,261,442



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**NOTE:** The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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