



## FURON<sup>®</sup> UPX VALVE

3-WAY MANUAL  
MULTI-TURN  
1/4, 1/2 & 3/4" ORIFICE

Furon UPX Valves are specifically designed for safe and reliable transfer of highly aggressive chemicals, including concentrated hydrogen fluoride (HF) and hydrogen chloride (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

It is our position based on our testing that Furon UPX Valves are ideal for use in the semiconductor industry, or other applications, such as Flat Panel, Photovoltaic, and Chemical Processing requiring ultra-high purity and/or superior chemical resistance. You should conduct your own testing to understand its compatibility with your specific application.

Our testing\* has shown among other things that Furon UPX Valves are:

- Designed for use in ultra-pure deionized water and aggressive chemical applications
- Suitable for use in certain abrasive slurry such as SS25
- Compatible with concentrated HF 49% and HCl 37 %

\* The testing results may vary based on other impacting factors

### 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 designs have been tested for more than 3 million cycles

# Furon® UPX Valve 3-Way Manual Multi-Turn

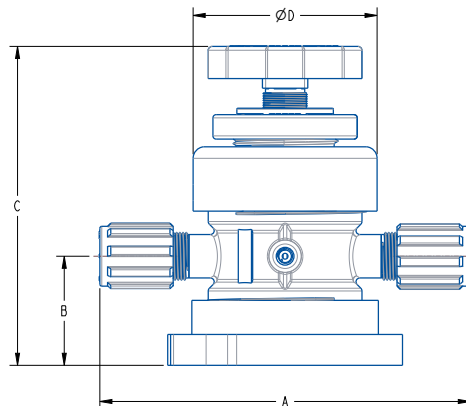
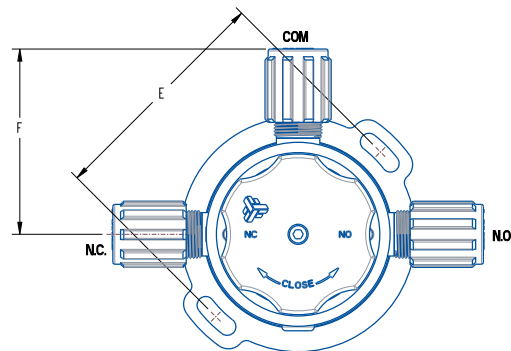
## SPECIFICATIONS

Description	End Connection Type	Orifice		End Connection Size		A		B		C		ØD		E		F	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
UPX3-F44-MT	FlareGrip® II	1/4	6.4	1/4	6.4	4.30	109.2	1.38	35.0	4.13	106.9	2.14	54.4	2.70	68.6	2.10	53.3
UPX3-744-MT	FuseBond™					4.90	124.5									2.50	63.5
UPX3-S30044-MT	Nippon Pillar Super 300®	1/4	6.4	3/8	9.5	Please contact us		1.38	35.0	4.13	106.9	2.14	54.4	2.70	68.6		
UPX3-F46-MT	FlareGrip® II					4.70	119.4									2.35	59.7
UPX3-S30046-MT	Nippon Pillar Super 300®	1/2	12.7	1/2	12.7	Please contact us		1.70	43.2	5.00	127.0	2.9	72.6	3.7	92.7		
UPX3-F88-MT	FlareGrip® II					5.60	142.2									2.80	71.1
UPX3-788-MT	FuseBond™	5.60	142.2	2.80	71.1												
UPX3-S30088-MT	Nippon Pillar Super 300®	1/2	12.7	3/4	19.0	Please contact us		1.90	48.3	5.30	134.6	3.40	86.4	4.20	106.7		
UPX3-F812-MT	FlareGrip® II					5.90	149.9									2.95	74.9
UPX3-S300812-MT	Nippon Pillar Super 300®	3/4	19.0	3/4	19.0	Please contact us		1.90	48.3	5.30	134.6	3.40	86.4	4.20	106.7		
UPX3-F1212-MT	FlareGrip® II					6.30	160.0									3.15	80.0
UPX3-71212-MT	FuseBond™	5.90	149.9	2.95	74.9												
UPX3-S3001212-MT	Nippon Pillar Super 300®	3/4	19.0	1	25.4	Please contact us		1.90	48.3	5.30	134.6	3.40	86.4	4.20	106.7		
UPX3-F1216-MT	FlareGrip® II					6.90	175.3									3.45	87.6
UPX3-S300-1216-MT	Nippon Pillar Super 300®					Please contact us											

Tested with HCl for more than 2.1 million cycles and HF for more than 1.1 million cycles

## OPTIONS

- PFA Flare nuts (add -3)
- Other end connection types available. [Please contact us](#) for:
  - FNPT
  - Tube End



# Furon® UPX Valve

## 3-Way Manual Multi-Turn

### TECHNICAL SPECIFICATIONS

Operating Pressure*	100 psig (6.9 bar)			
Back Pressure*	Up to 100 psig (6.9 bar) based on the model**			
Flow	Orifice	1/4"	1/2"	3/4"
	Cv	0.8	3.2	7.0
Operating Temperature+	Ambient: 149°F (65°C) Media: 230°F (110°C)			
Body	PFA			
Diaphragm	Modified PTFE			
Top Cap	ETFE			

\* At room temperature

\*\* [Please contact us](#) for more information

+ [Please contact us](#) for higher temperature

++ It is recommended to use a FuseBond™ or Nippon Pillar Super 300® connection over a flare fitting for high temperature application



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**NOTE:** This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document should not be considered a Product warranty or guaranty. To the extent this document mentions any tests done by Saint-Gobain, such tests are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values. Saint-Gobain strongly recommends that you conduct practical tests simulating the conditions of your application to ensure that the product meets your requirements for your specific application

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