



FURON®
Pure Performance

Furon® UPX Valve

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

Description

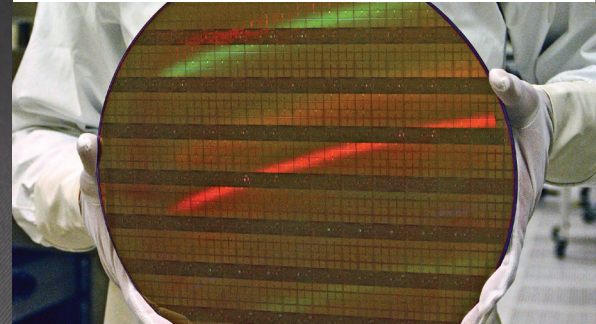
Furon UPX Valves are specifically designed for safe and reliable transfer of highly aggressive chemicals, including concentrated HF and HCl. UPX Valves are specifically designed for safe and reliable transfer of highly aggressive chemicals, including concentrated HF and HCl. Our proprietary technology 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.

Furon UPX Valves offer a 24 month factory warranty.

Applications

Furon UPX 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
- Visual position indicator standard
- Furon UPX Valve designs have been tested for more than 3 millions cycles

ASK AN ENGINEER


SAINT-GOBAIN

Furon UPX Valve

Part Number	End Connection	Orifice (in.)	Port Size (in.)	A	B	C	ØD	E	F
UPX3-F44	Flaregrip® II	1/4	1/4	4.30 (109.22 mm)	1.38 (35.05 mm)	4.13 (106.90 mm)	2.12 (53.85 mm)	2.72 (69.09 mm)	2.20 (55.88 mm)
UPX3-F46	Flaregrip® II	1/4	3/8	4.70 (119.38 mm)					2.35 (59.69 mm)
UPX3-744	Fusebond™	1/4	1/4	4.90 (124.46 mm)					2.50 (63.50 mm)
UPX3-F88	Flaregrip® II	1/2	1/2	5.60 (142.24 mm)	1.70 (43.18 mm)	5.00 (127.0 mm)	2.90 (73.66 mm)	3.62 (91.95 mm)	2.80 (71.12 mm)
UPX3-F812	Flaregrip® II	1/2	3/4	5.90 (149.86 mm)					2.95 (74.93 mm)
UPX3-788	Fusebond™	1/2	1/2	5.60 (142.24 mm)					2.80 (71.12 mm)
UPX3-7812	Fusebond™	1/2	3/4	5.90 (169.86 mm)	1.90 (48.26 mm)	5.30 (134.62 mm)	3.40 (86.36 mm)	4.20 (106.68 mm)	2.94 (74.67 mm)
UPX3-S30088	Super 300®	1/2	1/2	5.50 (139.70 mm)					2.75 (69.85 mm)
UPX3-S300812	Super 300®	1/2	3/4	7.20 (182.88 mm)					3.60 (91.44 mm)
UPX3-F1212	Flaregrip® II	3/4	3/4	6.30 (160.02 mm)	1.90 (48.26 mm)	5.30 (134.62 mm)	3.40 (86.36 mm)	4.20 (106.68 mm)	3.15 (80.01 mm)
UPX3-F1216	Flaregrip® II	3/4	1	6.90 (175.26 mm)					3.45 (87.63 mm)
UPX3-71212	Fusebond™	3/4	3/4	5.90 (149.86 mm)					2.95 (74.93 mm)
UPX3-71216	Fusebond™	3/4	1	5.80 (147.32 mm)					2.90 (73.66 mm)
UPX3-S300-1212	Super 300®	3/4	3/4	8.00 (203.20 mm)					4.00 (101.6 mm)
UPX3-S300-1216	Super 300®	3/4	1	8.00 (203.20 mm)					4.00 (101.6 mm)

HCl more than 2.1 million cycles
HF more than 1.1 million cycles

Standard Options

- PFA Flare nuts (add -3)
- Other end connection types available. [Please consult factory](#) for:
 - FNPT
 - Sanitary Flange
 - Tube End
 - Others not listed
- Fiber optic position indication sensor ([please consult factory >>](#))
- Alternative flow patterns ([please consult factory >>](#))

Operating Specifications

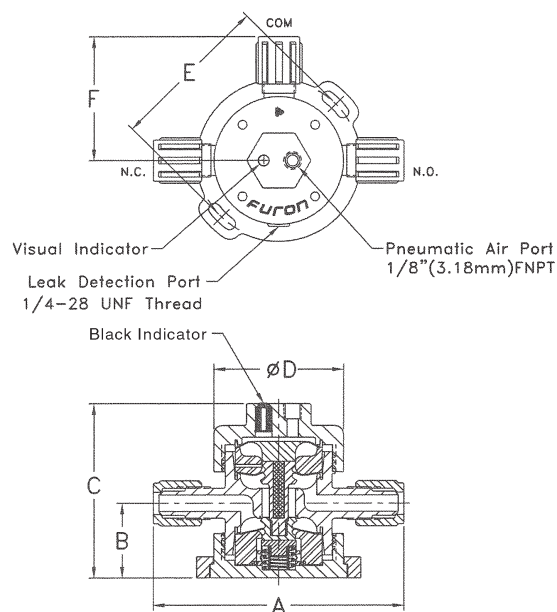
Operating Pressure*	100 psig (6.9 bar)
Back Pressure*	Up to 100 psig (6.9 bar) based on the model**
Flow	C _v 0.8 (1/4"), C _v 3.2 (1/2"), C _v 7.0 (3/4")
Max Operating Temperature++	230°F (110°C)++
Actuator Pressure	70 – 90 PSIG (4.8 – 6.2 bar)
Body	PFA
Diaphragm	Modified PTFE
Top Cap	ETFE

* At room temperature

** [Please consult factory](#) for more information.

++ [Please consult factory](#) for higher temperature

++ Its 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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