



# FURON<sup>®</sup> UPRM PRESSURE REGULATOR

MANUAL  
1/4 & 1/2 ORIFICE

Furon UPRM Pressure Regulators are engineered to accurately maintain predetermined output pressures in fluid lines. By adjusting the ergonomically designed knob, the end user can control the desired fluid output pressure. Our regulator contains no exposed metallic parts. A modified PTFE isolation diaphragm protects the actuator components from the process media, assuring no possibility of contamination from metal elements. Manual UPRM Pressure Regulators come standard with a panel mount option, allowing easy installation on an instrumentation or control panel.

Constructed from 100% high-purity PFA and PTFE wetted parts, Furon UPRM Pressure Regulators are suitable for use in ultrapure, harsh, or aggressive chemicals commonly found in the Semiconductor industry, or any other applications requiring high purity and/or high chemical resistance.

## APPLICATIONS

- Regulation of pressures in aggressive or ultrapure chemical or DI water lines
- Protecting sensitive instrumentation from pressure spikes
- Preventing foreign particles from being forced through filtration membranes due to unstable pressures

## FEATURES AND BENEFITS

- Mechanical design maintains predetermined output pressure
- Handles fluid temperatures up to 194°F (90°C)
- All fluoropolymer wetted surfaces
- Non-metallic external surfaces
- Integral leak port detection
- Panel mount feature standard

# Furon® UPRM Pressure Regulator Manual

## SPECIFICATIONS

Part Number	End Connection Type	Orifice		End Connection Size		A		B		C		D		Pressure Regulation Range*									
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	PSIG	bar								
UPRM-144-30-M	FNPT	1/4	6.4	1/4	6.4	3.00	76.2	1.45	36.8	5.20	132.1	2.72	69.1	10 - 40	0.7- 2.75								
UPRM-744-30-M	FuseBond™					4.90	124.5																
UPRM-F44-30-M-3	FlareGrip® II					4.38	111.3																
UPRM-S30044-30-M	Nippon Pillar Super 300®					Please contact us																	
UPRM-F46-30-M-3	FlareGrip® II					4.72	119.9																
UPRM-S30046-30-M	Nippon Pillar Super 300®					Please contact us																	
UPRM-144-60-M	FNPT			1/4	6.4	1/4	6.4							3.00	76.2	1.65	41.9	7.82	196.6	3.6	92.0	15 - 60	1.0- 4.1
UPRM-744-60-M	FuseBond™													4.90	124.5								
UPRM-F44-60-M-3	FlareGrip® II													4.38	111.3								
UPRM-S30044-60-M	Nippon Pillar Super 300®													Please contact us									
UPRM-F46-60-M-3	FlareGrip® II													4.72	119.9								
UPRM-S30046-60-M	Nippon Pillar Super 300®													Please contact us									
UPRM-188-30-M	FNPT	1/2	12.7	1/2	12.7	5.80	147.3	1.65	41.9	7.82	196.6	3.6	92.0	10 - 40	0.7- 2.75								
UPRM-788-30-M	FuseBond™					5.82	147.8																
UPRM-F88-30-M-3	FlareGrip® II					5.9	149.9																
UPRM-S30088-30-M	Nippon Pillar Super 300®					Please contact us																	
UPRM-F812-30-M-3	FlareGrip® II					5.9	149.9																
UPRM-S300812-30-M	Nippon Pillar Super 300®					Please contact us																	
UPRM-188-60-M	FNPT			1/2	12.7	1/2	12.7							5.60	142.2	1.65	41.9	7.82	196.6	3.6	92.0	15 - 60	1.0- 4.1
UPRM-788-60-M	FuseBond™													5.60	142.2								
UPRM-F88-60-M-3	FlareGrip® II													5.9	149.9								
UPRM-S30088-60-M	Nippon Pillar Super 300®													Please contact us									
UPRM-F812-60-M-3	FlareGrip® II													5.9	149.9								
UPRM-S300812-60-M	Nippon Pillar Super 300®													Please contact us									

Note: A, B, C, D dimensions corresponding drawing on following page  
 \* [Please contact us](#) for Higher Pressure Regulation range.

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## TECHNICAL SPECIFICATIONS

Max. Operating Pressure	90 psig (6.2 bar)
Pressure Regulation Range*	10 - 40 psig (0.7 - 2.75 bar) and 15 - 60 psig (1.0 - 4.1 bar)
Flow Factor	C <sub>v</sub> 3.2 (with 1/2" flare connections)
Max. Operating Temperature	Ambient: 122°F (50°C) Media: 194°F (90°C)
Body	PTFE
Diaphragm	Modified PTFE
Top Cap (Air Actuator)	Polypropylene

\* [Please contact us](#) for Higher Pressure Regulation range.

## OPTIONS

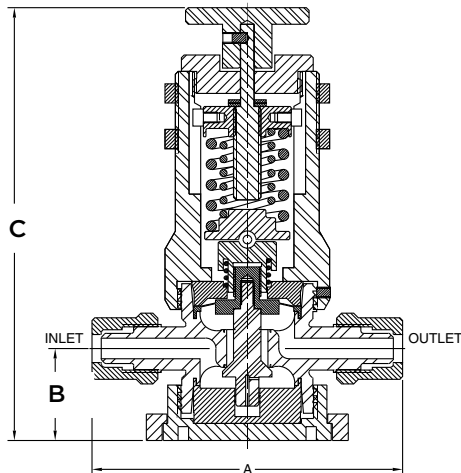
Other end connections:

- Grab Seal™
- Tube Ends
- Others not listed

[Please contact us](#) for further details >>

**Cv info:**  
Test data found for Pneumatic version. Can we use that data for this? If not, recommend to test CV for Manual version.

**Need new drawing file**



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**All Other Regions**  
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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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