

GOREGULATOR, INC.

A division of CIRCOR International, Inc.

UPR-7 High Flow Precision Pressure Regulator

The high flow coefficient of the UPR-7 provides the user with a high purity pressure regulator exhibiting very low droop characteristics. The combination of high flow and low droop makes the UPR-7 ideally suited for bulk gas distribution applications. The Model UPR-7 features fully electropolished internal components with standard surface finishes better than 25 Ra. This feature provides the semiconductor end-user with a precision pressure regulator, economically priced for applications ranging from gas distribution to point of use in the manufacturing tool.

Features & Specifications

- 25 Ra Internal Surface Finish, Std.
- High Flow, C_v 1.1
- Low Droop Characteristics
- 316L SS Body, Cap, Internals
- Male, Female or Internally Machined VCR Compatible Ports
- 1 x 10⁻⁹ atm cc/sec, Inboard Leak Spec

Applications

Options

Bulk Inert Gas Distribution
Diffusion Furnaces
Epitaxial Reactors
Specialty Gas Distribution
Wetted Materials for Corrosive Service Hastelloy, Monel

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UPR-7 High Flow Precision Pressure Regulator

How to Order

See page 3 for standard configurations. For additional configurations, consult the factory. See page 4 for port locations.

Maximum Temperature & Operating Inlet Pressures

Up to 100 psig Outlet Pressure				
Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure	
Teflon®	150° F (66° C)	@	1000 psiG (6.90 MPa)	
Tefzel ®	175° F (80° C)	@	3600 psiG (24.82 MPa)	
PCTFE (formerly Kel-F 81®)	175° F (80° C)	@	3600 psiG (24.82 MPa)	
PEEK	250° F (121° C)	@	3600 psiG (24.82 MPa)	
Viton®	250° F (121° C)	@	300 psiG (2.07 MPa)	
Kalrez®	250° F (121° C)	@	300 psiG (2.07 MPa)	
* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.				

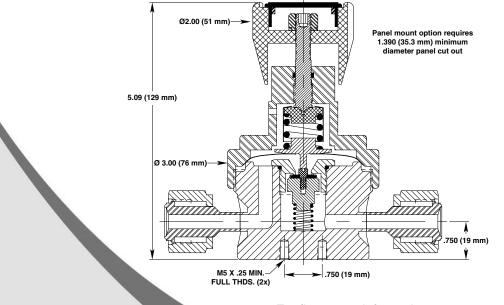
0–250 psig Outlet Pressure (Hand Knob)				
Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure	
Teflon®	150° F (66° C)	@	500 psiG (3.45 MPa)	
Tefzel ®	175° F (80° C)	@	500 psiG (3.45 MPa)	
PCTFE (formerly Kel-F 81®)	175° F (80° C)	@	500 psiG (3.45 MPa)	
Viton®	250° F (121° C)	@	300 psiG (2.07 MPa)	
Kalrez®	250° F (121° C)	@	300 psiG (2.07 MPa)	

Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.

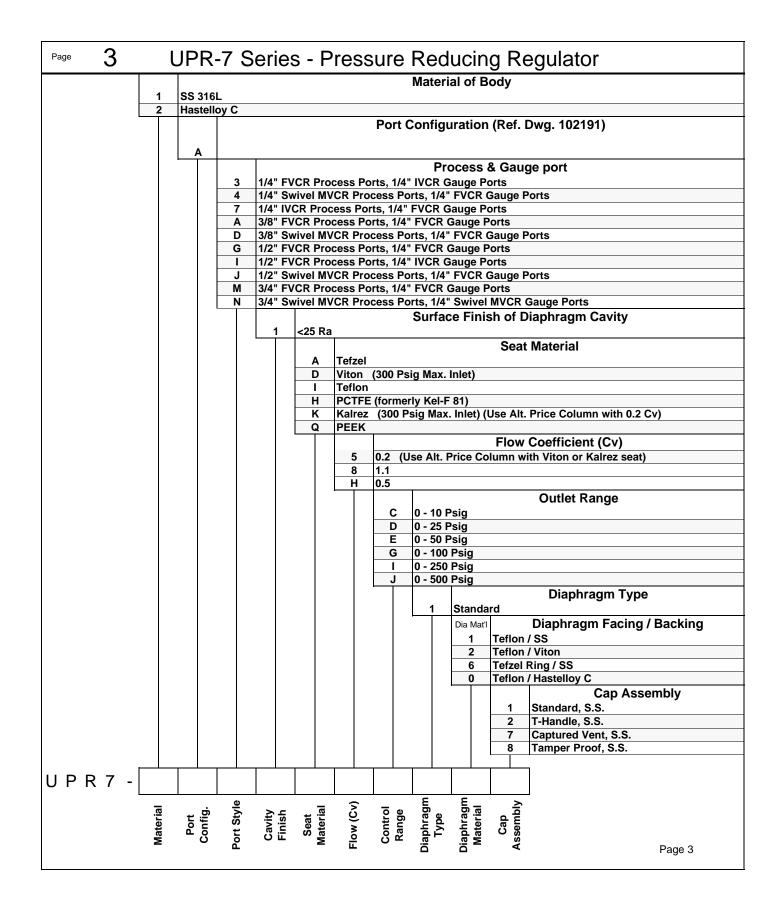
0–250 & 0–500 psig Outlet Pressures (T Handle or Tamper Proof)				
Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure	
Teflon®	150° F (66° C)	@	1000 psiG (6.90 MPa)	
PEEK	250° F (121° C)	@	3600 psiG (24.82 MPa)	

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Tefzel®, Kalvez®, Viton® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions



For flow curve information go to www.goreg.com/flow_upr7.htm



PORT LOCATIONS (PRECISION PRESSURE REGULATOR)

