GOREGULATOR, INC. A division of CIRCOR International, Inc.



PR-7 Series Ultra High Flow Adjustable Pressure Reducing Regulator

The PR-7 Series has been designed for those applications using high gas flow rates while still requiring a compact package. In addition, this unit will handle hydrogen flows up to 1000 liters per minute with none of the resonance problems typical with many regulators attempting such an application.

While designed for gas flow applications with low inlet pressures and low differential pressures, this valve has been constructed to withstand inlet pressures up to 3600 psig. With capability of holding outlet pressures closely with large changes of flow requirements, this valve is very suitable as a primary pressure supply to other pressure regulators located downstream.

Features & Specifications

- Minimal droop with large flow increased
- · No resonance with large hydrogen flows
- Stainless steel diaphragm
- Stainless steel (316L) or brass construction (optional Hastelloy, Monel, or chrome-plated brass)
- T-handle adjusting assembly for easier adjustment in the 250 and 500 psig ranges
- Material of construction: brass, stainless steel, Viton®, Teflon®, PEEK, or Kalrez®
- Stainless steel cap
- C_v flow coefficient = 1.1 (full C_v with 1/2" ported unit only)
- Operating temperatures up to +250° F (+121° C)
- Maximum inlet pressure of 3600 psig with PEEK seat
- Inlet/outlet connections: 1/4", 3/8", or 1/2" FNPT
- Outlet pressure ranges of: 0–10, 0–25, 0–50, 0–100, 0–250 & 0–500 psig

Options

Self relieving

- Panel mount
- Captured vent

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PR-7 Series Ultra High Flow Adjustable Pressure Reducing Regulator

How to Order

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

Up to 100 psig Outlet Pressure				
	Maximum		Maximum Operating	
Seat Material	Temperature*	@	Inlet Pressure	
Teflon®	150° F (66° C)	@	1000 psig (6.90 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)	

Maximum Temperature & Operating Inlet Pressures

* 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)				
	Maximum		Maximum Operating	
Seat Material	Temperature	@	Inlet Pressure	
Teflon®	150° F (66° C)	@	1000 psig (6.90 MPa)	
PEEK	250° F (121° C)	@	3600 psig (24.82 MPa)	

Teflon®, Viton® and Kalrez® are registered trademarks of Dupont Corporation.





PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)

