# **GO**REGULATOR

## **PR-1 Series**

Adjustable Pressure Reducing Regulator



The PR-1 Series is a versatile pressure reducing regulator designed to fulfill a wide range of needs in instrumentation sample systems and other applications such as semiconductor processing gases. Many features of the PR-1 make it ideal for a wide range of applications controlling pressures at low to moderate flows in gas or liquid service. 316L body material is used to facilitate welded connections. Stainless steel caps and adjusting screws prevent atmospheric corrosion and maintain appearance. Enhanced internal body surface finish of better than 25 Ra plus electropolishing allows easier cleaning and potentially less particle contamination in the flow stream.

Five different seat materials, three alternate orifice sizes and seven pressure control ranges with stainless diaphragms offer the user a wide spectrum of capabilities for pressure control with inlet pressures up to 6000 psig and standard operating temperatures up to 500° F (260° C).

#### **GO Regulator**

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#### **Features & Specifications**

- Gas or liquid service
- 316L stainless steel, Inconel<sup>®</sup>, PTFE, and Tefzel<sup>®</sup> (or optional main seat material choice) only in flow stream
- Electropolished 316L body with better than 25 Ra diaphragm cavity surface finish
- Stainless steel cap with SS adjusting screw
- Inlet pressures of up to 6000 psi
- Adjustable outlet pressure ranges of 0–10, 0–25, 0–50, 0–100, 0–250, 0–500 and 0–750 psig
- Operating temperatures of -40° F up to +500° F (-40° C up to +260° C)
- 20 micron filters
- Bubble-tight shutoff under most conditions
- Cv flow coefficients 0.025, 0.06, 0.20, and 0.50 (0.06 standard)

#### **Options**

- Wetted materials of construction: Monel<sup>®</sup>, Hastelloy<sup>®</sup>, and titanium
- Diaphragm attached poppet
- Special fittings
- Diaphragm assist spring for vacuum purging
- Panel mount (1% mounting hole)
- Relief valves
- Special diaphragm assembly for water service
- SS inlet pressure gauges
- SS outlet pressure gauges
- Base-mounting brackets
- Captured vent
- Self-relieving

Pressure & Vacuum

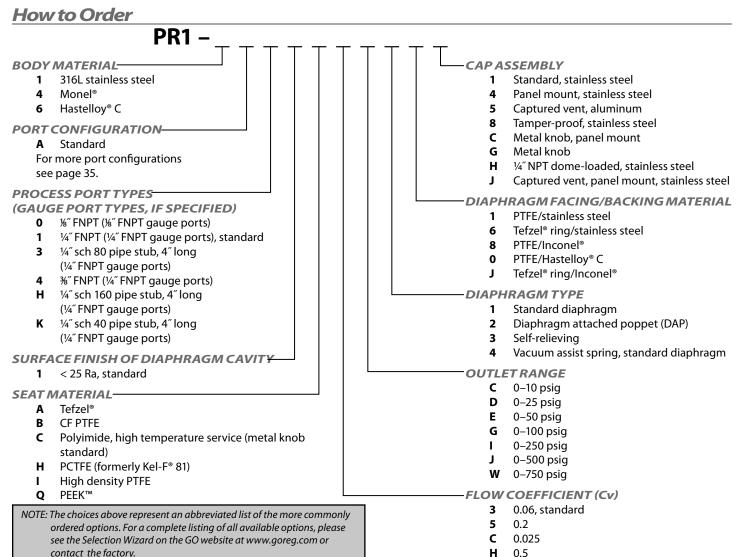
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Level & Temperatur

Tube & Fittings

HVACR Custom Services

## **PR-1 Series**



contact the factory.

# Maximum Temperature & Operating Inlet Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE*	@	MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High density PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F® 81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)

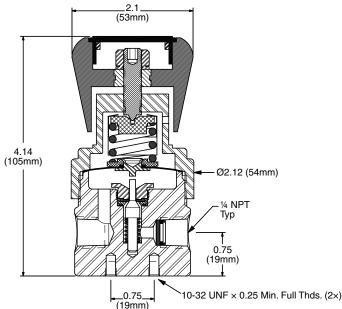
 Temperatures in excess of 175° F (80° C) require a metal knob or the tamper-proof option.

Inconel® and Monel® are registered trademarks of Special Metals Corporation. Tefzel® is a registered trademark of the DuPont Company. Hastelloy® is a registered trademark of Haynes International, Inc. Kel-F® is a registered trademark of 3M Company. PEEK™ is a trademark of Victrex PLC.

## **Outline and Mounting Dimensions**

Panel mount option requires 1.390 (35.3mm) minimum diameter panel cut out. 0.150 maximum panel thickness.

### Weight = 1.9 lbs (0.86 kg)



2 GO Regulator Single Stage Pressure Regulators

## Porting Configurations for Single Stage Pressure Regulators

