PR-7LF Series

High Sensitivity Pressure Reducing Regulator



The PR-7LF Series pressure reducing regulator is designed to furnish precise low outlet pressure control to analytical instrumentation. With the combination of the large diaphragm sensing area of the PR-7 Series regulator and the low flow seat assembly of the PR-1 Series pressure regulator, pressure control down to 10 inches of water is easily obtainable.

The PR-7LF Series of regulators are available in a choice of stainless steel or brass construction; special alloys are available on special request.

Features & Specifications

- · Sensitive pressure control
- · Low pressure adjustability
- Stainless steel or brass construction (optional Monel® or Hastelloy® C construction)
- 20 micron inlet filter
- Optional special fittings including VCR®-compatible face seal (male or female)
- Inlet pressure to 3600 psig
- Adjustable outlet pressure ranges 0–6, 0–25, 0–50, 0–75, 0–125 & 0–250 psig
- Cv flow coefficients of 0.025; 0.06; 0.20; 0.50
- PTFE/Viton® diaphragm standard up to 25 psig
- 316L stainless steel or brass, Inconel®, Tefzel® & PTFE in the flow stream
- Operating temperatures -40° F to +250° F (-40° C to +121° C)
- Inlet and outlet connections ¼" FNPT standard

PR-7LF Series

How to Order

PR7L

BODY MATERIAL-

- 316L stainless steel 1
- 2 **Brass**
- 4 Monel®
- Hastellov® C

PORT CONFIGURATION

Standard

For more port configurations, see page 35.

PROCESS PORT TYPES

(GAUGE PORT TYPES, IF SPECIFIED)

- 1 1/4" FNPT (1/4" FNPT gauge ports)
- 4 ¾" FNPT (¼" FNPT gauge ports)
- 1/2" FNPT (1/4" FNPT gauge ports) 5
- 1/2" Tri-clover (1/4" FNPT gauge ports)

SURFACE FINISH OF DIAPHRAGM CAVITY

< 25 Ra

SEAT MATERIAL

- Α Tefzel®
- D Viton® (0.2 Cv only)
- PCTFE (formerly Kel-F® 81) н
- High density PTFE Т
- Κ Kalrez® (0.2 Cv only)

FLOW COEFFICIENT (Cv)

- 0.06 3
- 5 0.2
- C 0.025
- н 0.5

NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

CAP ASSEMBLY

- Standard, stainless steel
- T-handle, stainless steel
- T-handle, panel mount, stainless steel
- Panel mount, stainless steel 4
- 5 Captured vent, aluminum
- 6 Captured vent, panel mount, aluminum
- 7 Captured vent, stainless steel
- Tamper-proof, stainless steel 8
- Fine adjust, ½" panel mount, stainless steel
- Fine adjust, 1%" panel mount, stainless steel 0
- C Captured vent, panel mount, stainless steel
- Ε Tamper-proof, panel mount, stainless steel
- 1/4" NPT, dome-loaded

DIAPHRAGM FACING/BACKING MATERIAL

- PTFE/stainless steel
- PTFE/Viton®
- 5 Viton®/stainless steel
- Tefzel® ring/stainless steel
- 7 Tefzel® ring/Hastelloy® C
- PTFE/Inconel®
- 0 PTFE/Hastelloy® C

DIAPHRAGM TYPE

- Standard diaphragm
- 2 Diaphragm-attached poppet
- 3 Self-relieving

OUTLET RANGE

- В 0-6 psig
- D 0-25 psig
- Ε 0-50 psig
- 0-75 psig
- Н 0-125 psig

0-250 psig

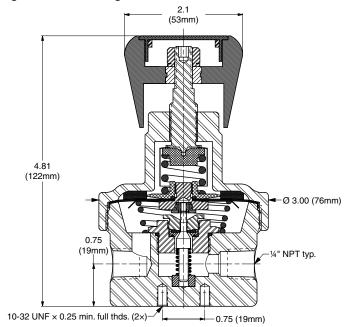
Maximum Temperature & **Operating Inlet Pressures**

SEAT MATERIAL	MAXIMUM TEMPERATURE*	@	MAXIMUM OPERATING INLET PRESSURE
PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F® 81)	175° F (80° 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 a metal knob or the tamper-proof option.

Outline and Mounting Dimensions

Weight = 3.2 lbs (1.45kg)



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Kalrez® and Viton® are registered trademarks of DuPont Dow Elastomers.