# PRSSUFE

# GO REGULATOR, INC.

# **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
- Inlet pressure to 3600 psig
- Adjustable outlet pressure ranges 0-6, 0-25, 0-50, 0-75, 0-125, 0-250 psig & 500 psig
- Cv flow coefficients of 0.025; 0.06; 0.20; 0.50
- PTFE/Viton® diaphragm available up to 25 psig
- 316L stainless steel or brass, INCONEL® and Tefzel®
- Operating temperatures -40° F to +250° F (-40° C to  $+121^{\circ}$  C)
- Inlet and outlet connections 1/4" FNPT standard

### **How to Order**

# PR7L

### **BODY MATERIAL-**

- 316L stainless steel, ss diaphragm
- 2 Brass, ss diaphragm
- MONEL®, INCONEL® diaphragm 4
- HASTELLOY® C. INCONEL® diaphragm
- SS 316L, INCONEL® diaphragm

### **PORT CONFIGURATION -**

A Standard

For more port configurations, see page 33.

### PROCESS PORT TYPES -

### (GAUGE PORT TYPES, IF SPECIFIED)

- 1/4" FNPT (1/4" FNPT gauge ports) 1
- 3/8" FNPT (1/4" FNPT gauge ports)
- 1/2" FNPT (1/4" FNPT gauge ports)

### SURFACE FINISH OF DIAPHRAGM CAVITY-

1 < 25 Ra

### SEAT MATERIAL

- Tefzel® Α
- Viton® (0.2 Cv only) D
- PCTFE (formerly Kel-F® 81)
- K Kalrez® (0.2 Cv only)
- PEEK™

### FLOW COEFFICIENT (Cv) -

- 3 0.06
- 5 0.2
- C 0.025
- Н 0.5

NOTE: Contact the factory for any additional requirements.

## **Maximum Temperature & Operating Inlet Pressures**

| SEAT MATERIAL                 | MAXIMUM<br>TEMPERATURE* | @ | MAXIMUM OPERATING INLET PRESSURE |
|-------------------------------|-------------------------|---|----------------------------------|
| Tefzel®                       | 150° F (66° C)          | @ | 3600 psig (24.82 MPa)            |
| PCTFE<br>(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)              |
| PEEK™                         | 250° F (121° C)         | @ | 3600 psig (24.82 MPa)            |

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

### **NPTIONS**

- Α **EB33**
- В EB5
- D Helium leak test
- Pressure test certificate
- Certificate of Conformity
- G **CMTR**

### CAP ASSEMBLY

- Standard, stainless steel
- T-handle, stainless steel
- T-handle, panel mount, stainless steel
- Panel mount, stainless steel
- Captured vent, stainless steel
- 8 Tamper-proof, stainless steel
- Fine adjust, 1/2" panel mount, stainless steel
- Fine adjust, 1%" panel mount, stainless steel
- Captured vent, panel mount, stainless steel
- Captured vent, tamper proof, stainless steel
- Tamper-proof, panel mount, stainless steel

### DIAPHRAGM FACING/BACKING MATERIAL

- PTFE/metal backing, standard
- 2 PTFE/Viton®
- 5 Viton®/metal backing
- 6 Tefzel® ring/metal backing

### DIAPHRAGM TYPE

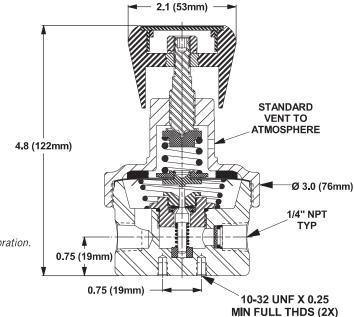
- Standard diaphragm
- 3 Self-relieving

### **OUTLET RANGE**

- 0-6 psig
- D 0-25 psig
- 0-50 psig
- 0-75 psig
- Н 0-125 psig
- 0-250 psig
- 0-500 psig

# **Outline and Mounting Dimensions**

Weight = 3.2 lbs (1.45 kg)



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