GO REGULATOR

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
- Teflon®/Viton® diaphragm standard up to 25 psig
- 316L stainless steel or brass, Inconel®, Tefzel® & Teflon® in the flow stream
- Operating temperatures -40° F to +250° F (-40° C to +121° C)
- Inlet and outlet connections ¼″ FNPT standard

pressure regulators

GO Regulator
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Phone (864) 574-7966 Fax (864) 574-5608
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PR-7LF Series

How to Order

PR7L –

BODY MATERIAL
- **1** 316L stainless steel
- **2** Brass
- **4** Monel®
- **6** Hastelloy® C

PORT CONFIGURATION
- **A** Standard

For more port configurations, see page 35.

PROCESS PORT TYPES (GAUGE PORT TYPES, IF SPECIFIED)
- **1** ¼″ FNPT (¼″ FNPT gauge ports)
- **4** ⅜″ FNPT (¼″ FNPT gauge ports)
- **5** ½″ FNPT (¼″ FNPT gauge ports)
- **J** ½″ Tri-clover (¼″ FNPT gauge ports)

SURFACE FINISH OF DIAPHRAGM CAVITY
- **1** < 25 Ra

SEAT MATERIAL
- **A** Tefzel®
- **D** Viton® (0.2 Cv only)
- **H** PCTFE (formerly Kel-F® 81)
- **I** High density Teflon®
- **K** Kalrez® (0.2 Cv only)

FLOW COEFFICIENT (Cv)
- **3** 0.06
- **5** 0.2
- **C** 0.025
- **H** 0.5

CAP ASSEMBLY
- **1** Standard, stainless steel
- **2** T-handle, stainless steel
- **3** T-handle, panel mount, stainless steel
- **4** Panel mount, stainless steel
- **5** Captured vent, aluminum
- **6** Captured vent, panel mount, aluminum
- **7** Captured vent, stainless steel
- **8** Tamper-proof, stainless steel
- **9** Fine adjust, ½″ panel mount, stainless steel
- **0** Fine adjust, 1⅜″ panel mount, stainless steel
- **C** Captured vent, panel mount, stainless steel
- **E** Tamper-proof, panel mount, stainless steel
- **H** ¼″ NPT, dome-loaded

DIAPHRAGM FACING/BACKING MATERIAL
- **1** Teflon®/stainless steel
- **2** Teflon®/Viton®
- **5** Viton®/stainless steel
- **6** Tefzel® ring/stainless steel
- **7** Tefzel® ring/Hastelloy® C
- **8** Teflon®/Inconel®
- **0** Teflon®/Hastelloy® C

DIAPHRAGM TYPE
- **1** Standard diaphragm
- **2** Diaphragm-attached poppet
- **3** Self-relieving

OUTLET RANGE
- **B** 0–6 psig
- **D** 0–25 psig
- **E** 0–50 psig
- **F** 0–75 psig
- **H** 0–125 psig
- **I** 0–250 psig

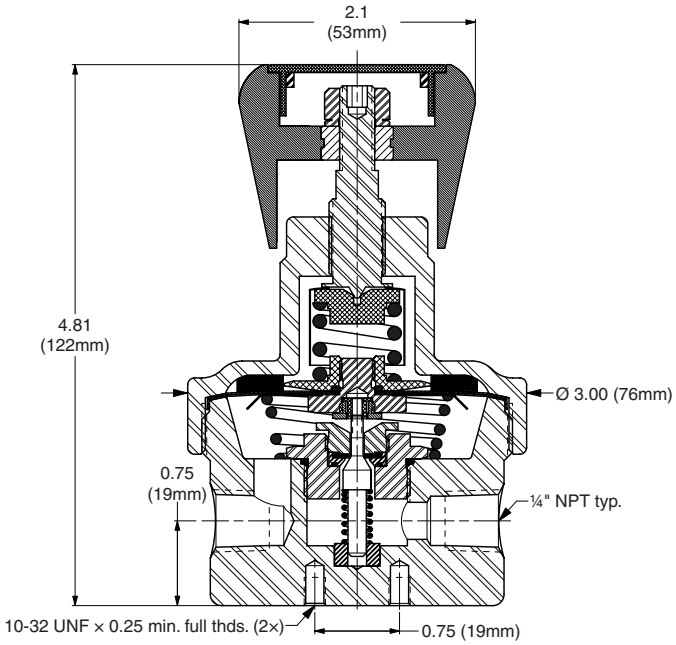
Maximum Temperature & Operating Inlet Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE*	@	MAXIMUM OPERATING INLET PRESSURE
Teflon®	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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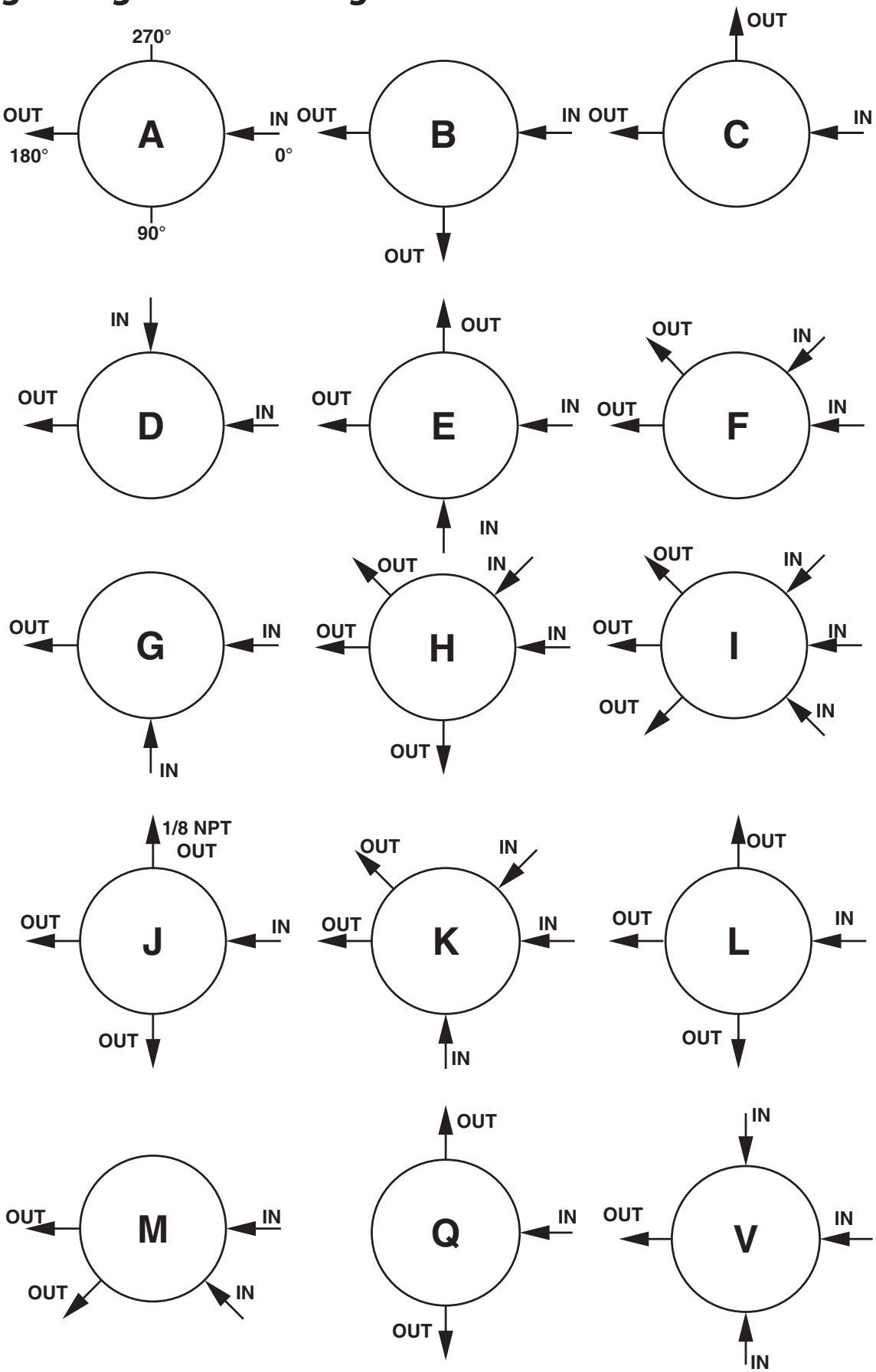
Kalrez® and Viton® are registered trademarks of DuPont Dow Elastomers.

Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM TOP VIEW