

GO REGULATOR, INC.

A division of CIRCOR International, 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
- 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
- C_v flow coefficient of 0.025; 0.06; 0.20; 0.50
- Teflon®/Viton® diaphragm standard up to 25 psig
- Stainless steel (316L) or Brass, Inconel, Tefzel® & Teflon® in the flow stream
- Operating temperatures -40° F (-40° C) to +250° F (+121° C)
- Inlet and outlet connections 1/4" FNPT standard

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PR-7LF Series

High Sensitivity Pressure Reducing Regulator

How to Order

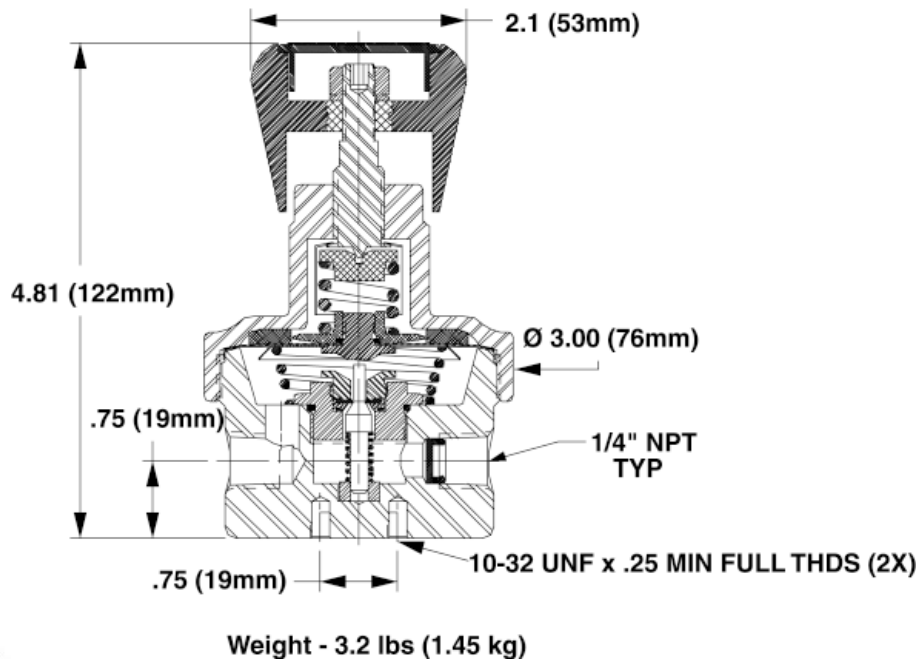
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

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 the use of a metal knob or the tamper proof option.
Viton®, Tefzel®, Teflon® and Kalrez® are trademarks of Dupont Corporation.

Outline and Mounting Dimensions



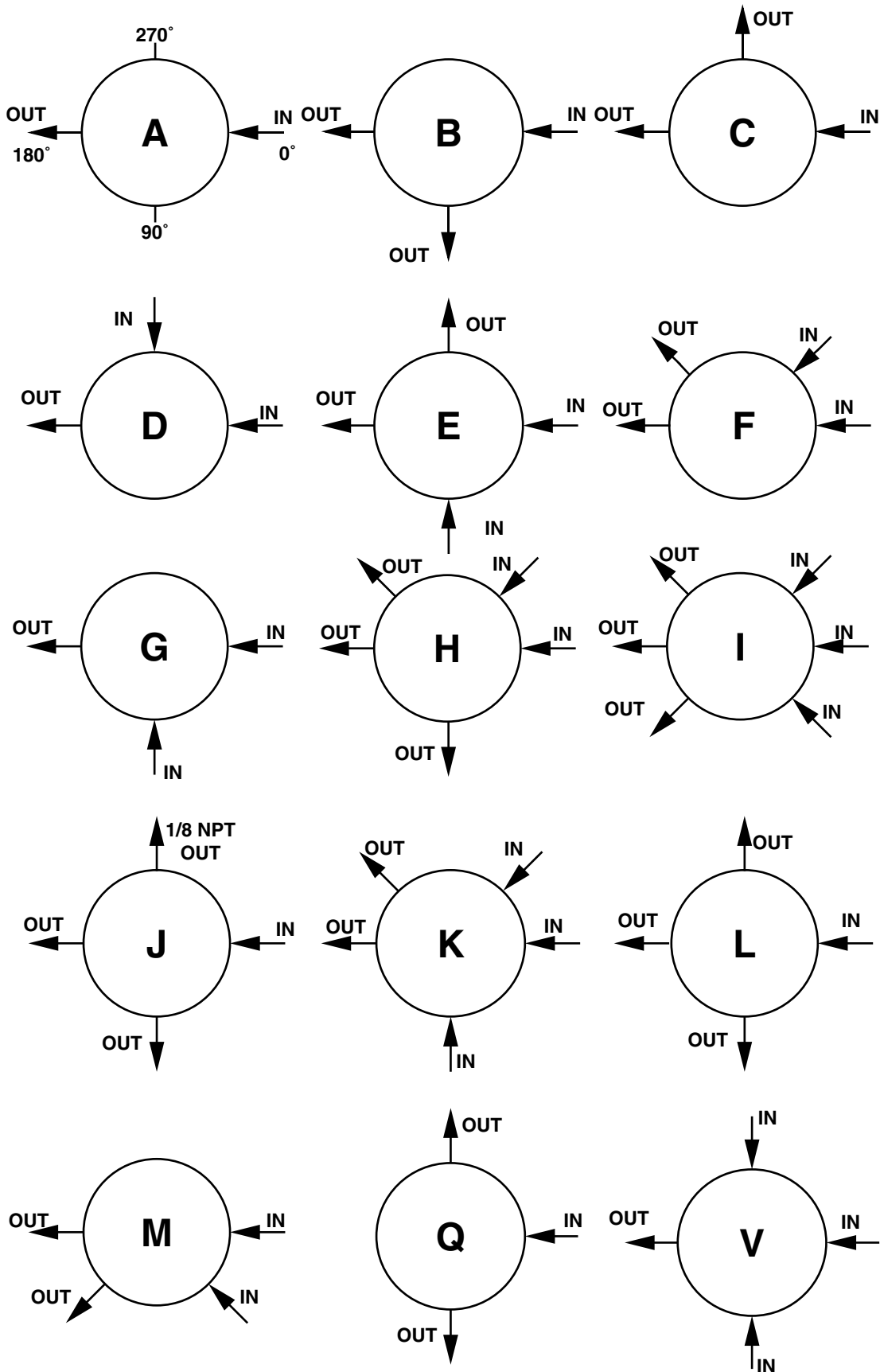
PR-7LF Series - Pressure Reducing Regulator

Material of Body	
1	SS 316L
2	Brass
4	Monel
6	Hastelloy C
Port Configuration (see page 4)	
STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
A	
Process port types (gauge port type, if specified)	
1	1/4" FNPT (1/4" FNPT Gauge Ports)
4	3/8" FNPT (1/4" FNPT Gauge Ports)
5	1/2" FNPT (1/4" FNPT Gauge Ports)
J	1/2" Triclover (1/4" 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)	
Cv	
3	0.06
5	0.2
C	0.025
H	0.5
Output 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
Diaphragm Type	
1	Standard Diaphragm
2	Diaphragm Attached Poppet
3	Self Relieving
Diaphragm Facing / Backing Material	
1	Teflon / SS
2	Teflon / Viton
5	Viton / SS
6	Tefzel Ring / SS
7	Tefzel Ring / Hastelloy C
8	Teflon / Inconel
0	Teflon / Hastelloy C
Cap Assembly	
1	Standard, S.S.
2	T-Handle, S.S.
3	T-Handle, Panel Mount, S.S.
4	Panel Mount, S.S.
5	Captured Vent, Aluminum
6	Captured Vent, Panel Mount, Aluminum
7	Captured Vent, S.S.
8	Tamper Proof, S.S.
9	Fine Adjust, 1/2" Panel Mount, S.S.
0	Fine Adjust, 1 3/8" Panel Mount, S.S.
C	Captured Vent, Panel Mount, S.S.
E	Tamper Proof, Panel Mount, S.S.

PR7L -

Material	Port Config.	Port Style	Cavity Finish	Seat Material	Flow (Cv)	Output Range	Diaphragm Type	Diaphragm Material	Cap Assembly
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PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM
TOP VIEW