

GO REGULATOR, INC.

A division of CIRCOR International, Inc.

PR-11 Series Ultra Sensitive Pressure Control Regulator



This precision pressure regulator has been designed to allow the user complete flexibility in application. The instrument design engineer can now choose the optimum operating parameters he needs for a particular flow system.

Flow and pressure regulation can now be easily and economically accomplished in laboratory and process chromatographs, air pollution analyzers and other general process and laboratory instruments. The low internal volume and no trapped areas mean efficient operation and cleanliness in instrumentation with high sensitivity detectors. The standard stainless diaphragm prevents permeability of undesired contaminants into the flow stream.

This regulator offers greater pressure and flow stability for critical applications such as chemiluminescent type analyzers and is considered the ultimate in maximum stability with ambient temperature change. The PR-11 Series has truly been designed by experienced instrumentation engineers for use in that industry.

Features & Specifications

- Single stage precision regulation in a compact design package
- Bubble tight shutoff
- Pressure gauge and relief valve ports optional
- Teflon® lined stainless steel or Viton® diaphragm standard
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
- 20 micron inlet filter
- Suitable for gas or liquid service
- Panel mounting 1/2" diameter, standard
- 1/8" FNPT connections
- Inlet pressures to 3600 psig
- Cv flow coefficient of 0.025, 0.06, and 0.20
- Materials in contact with operating media are aluminum, 300 series stainless steel, Viton®, Teflon® and Inconel

Options

- 1/4" FNPT connection
- Extra ports
- Pressure gauges
- Panel mount, (requires a 1 3/8" mounting hole)

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PR-11 Series

Ultra Sensitive Pressure Control Regulator

How to Order

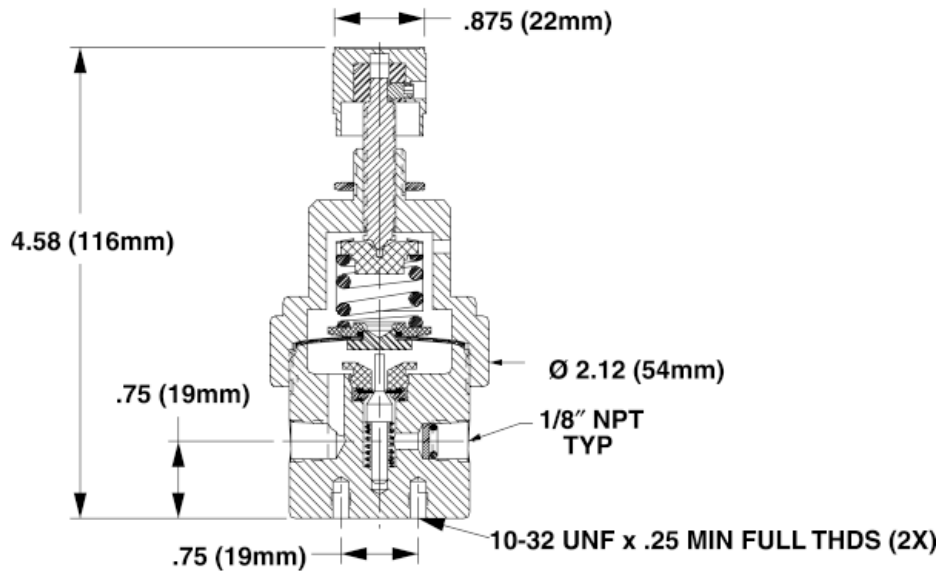
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Viton®	225° F (107° C)	@	300 psig (2.07 MPa)
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F-81)	175° F (80° C)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	3600 psig (24.82 MPa)
PEEK	175° F (80° C)	@	3600 psig (24.82 MPa)

Viton®, Tefzel® and Teflon® are registered trademarks of Dupont Corporation.

Outline and Mounting Dimensions



Weight - 0.7 lbs (0.31 kg)

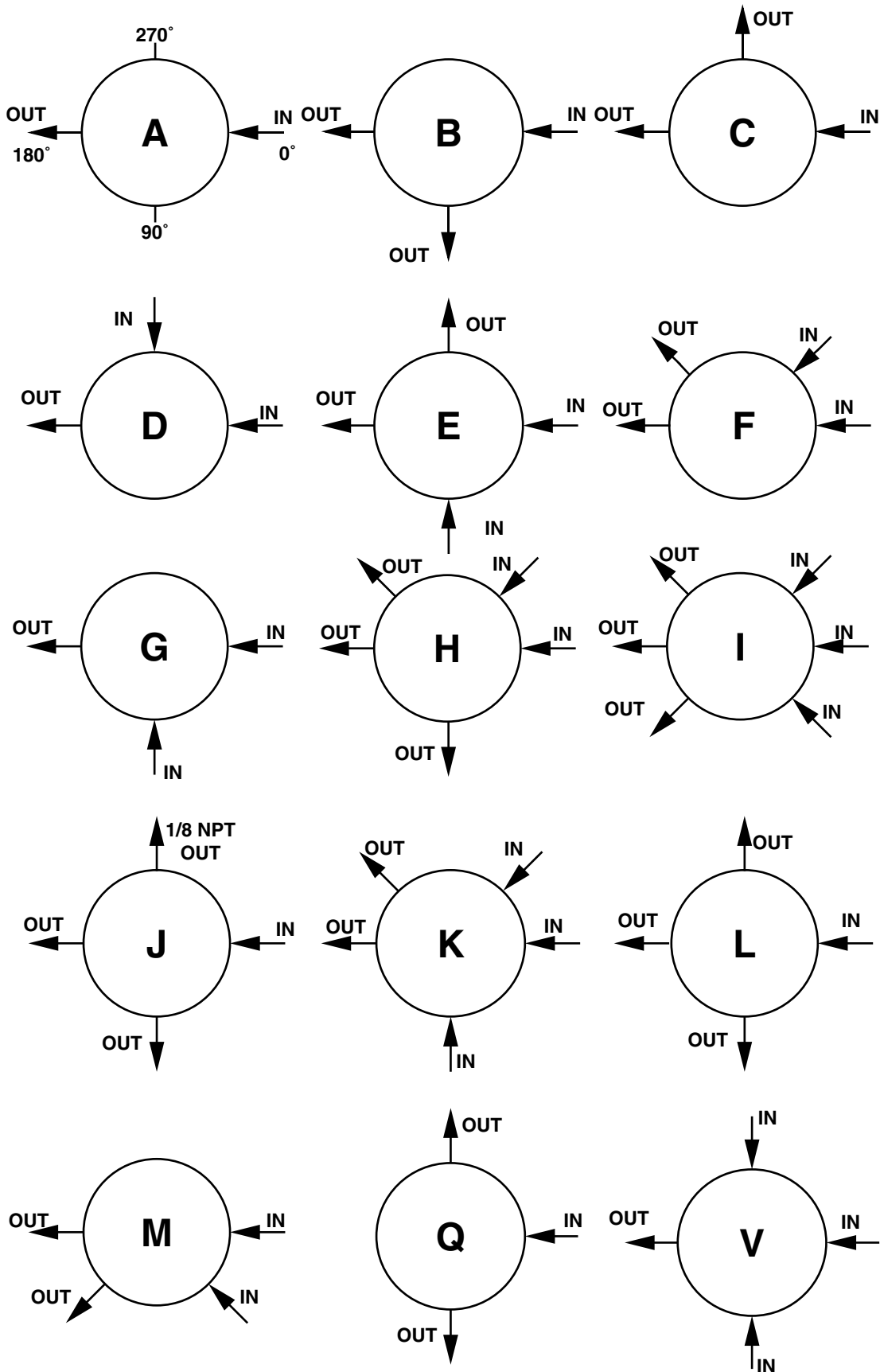
PR-11 Series - Pressure Reducing Regulator

Mat'l 3	Material of Body													
	A	Port Configuration (see page 4) STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)												
		Process port types (gauge port type, if specified)												
		0	1/8" FNPT (1/8" FNPT Gauge Ports)											
		1	1/4" FNPT (1/8" FNPT Gauge Ports)											
			Surface Finish of Diaphragm Cavity											
			1	<25 Ra										
				Seat Material										
				A	Tefzel									
				B	CF Teflon									
				C	Polyimide									
				D	Viton									
				H	PCTFE (formerly Kel-F 81)									
				I	High Density Teflon									
				Q	PEEK									
					Flow Coefficient (Cv)									
					3	0.06								
					5	0.2								
					C	0.025								
					Outlet Range									
					C	0 - 10 Psig								
					D	0 - 25 Psig								
					E	0 - 50 Psig								
					G	0 - 100 Psig								
					I	0 - 250 Psig								
					Diaphragm Type									
					1	Standard								
					2	Standard, Nispan range spring								
					3	Self Relieving								
					4	Self Relieving, Nispan range spring								
					Diaphragm Facing / Backing									
					1	Teflon / SS								
					2	Teflon / Viton								
					Cap Assembly									
					1	1/2" Panel Mount, Aluminum								
					2	Old Style PR-10 Topworks, Aluminum								
					4	1 3/8" Panel Mount, Aluminum								

PR 1 1 -

Material
Port Config.
Port Style
Cavity Finish
Seat Material
Flow (Cv)
Control Range
Diaphragm Type
Diaphragm Material
Cap Assembly

PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM TOP VIEW