

# **GO** REGULATOR, INC.

A division of CIRCOR International, Inc.

## **PR-9 Series High Temperature Stainless Steel Pressure Regulator**



The PR-9 Series high temperature pressure regulator is designed for the pressure control of gases and liquids up to 1000° F. All metal components in and out of the flow stream provide the user with extended reliability in rigorous high temperature ambient and process applications. This regulator can also be used in applications where no elastomers are allowed in the flow stream. The PR-9 is equipped with a metal-to-metal seat and will not provide bubble tight shutoff. If shutoff is required, a high temperature shutoff valve must be placed upstream of this regulator

### **Features & Specifications**

- 650° F (340° C) or 1000° F (540° C)
- All metal construction, no elastomers
- Gas or liquid service
- Inlet pressure 3000 psig at 650° F (343° C) 1500 psig at 1000° F (538° C)
- Adjustable outlet pressure ranges of 0-25, 0-50, 0-100 and 0-250 psig
- Stainless steel (316L or 347), Inconel, Tungsten Carbide in flow stream
- C<sub>v</sub> flow coefficient of 0.06 and 0.2
- Metal to metal seat seal
- Inlet and outlet connections 1/4" FNPT
- Operating temperature -382° F (-200° C) to +1000° F (+540° C)

### **Options**

- 3/8" FNPT connection and 1/4" pipe stub
- Panel mount (requires 1 3/8" mounting hole)
- Extra inlet and outlet ports
- Special welded connections

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# PR-9 Series

## High Temperature Stainless Steel Pressure Regulator

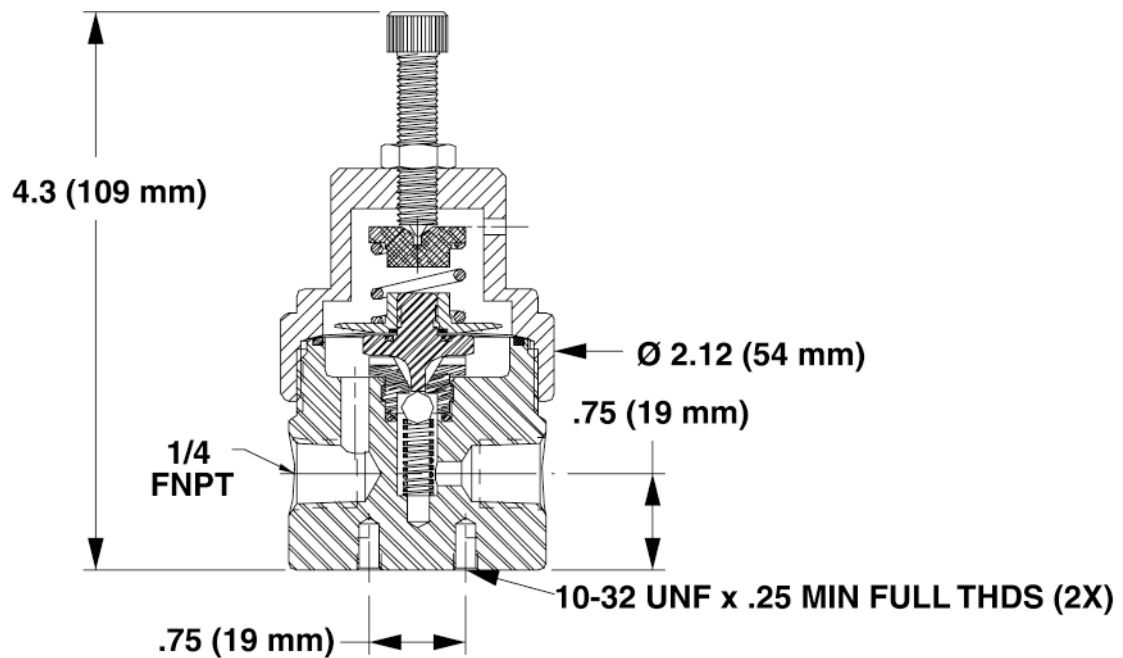
### How to Order

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
316 SS	650° F (343° C)	@	3000 psig (20.68 MPa)
347 SS	1000° F (538° C)	@	1500 psig (10.34 MPa)

### Outline and Mounting Dimensions



Weight - 2.1 lbs (0.95 kg)

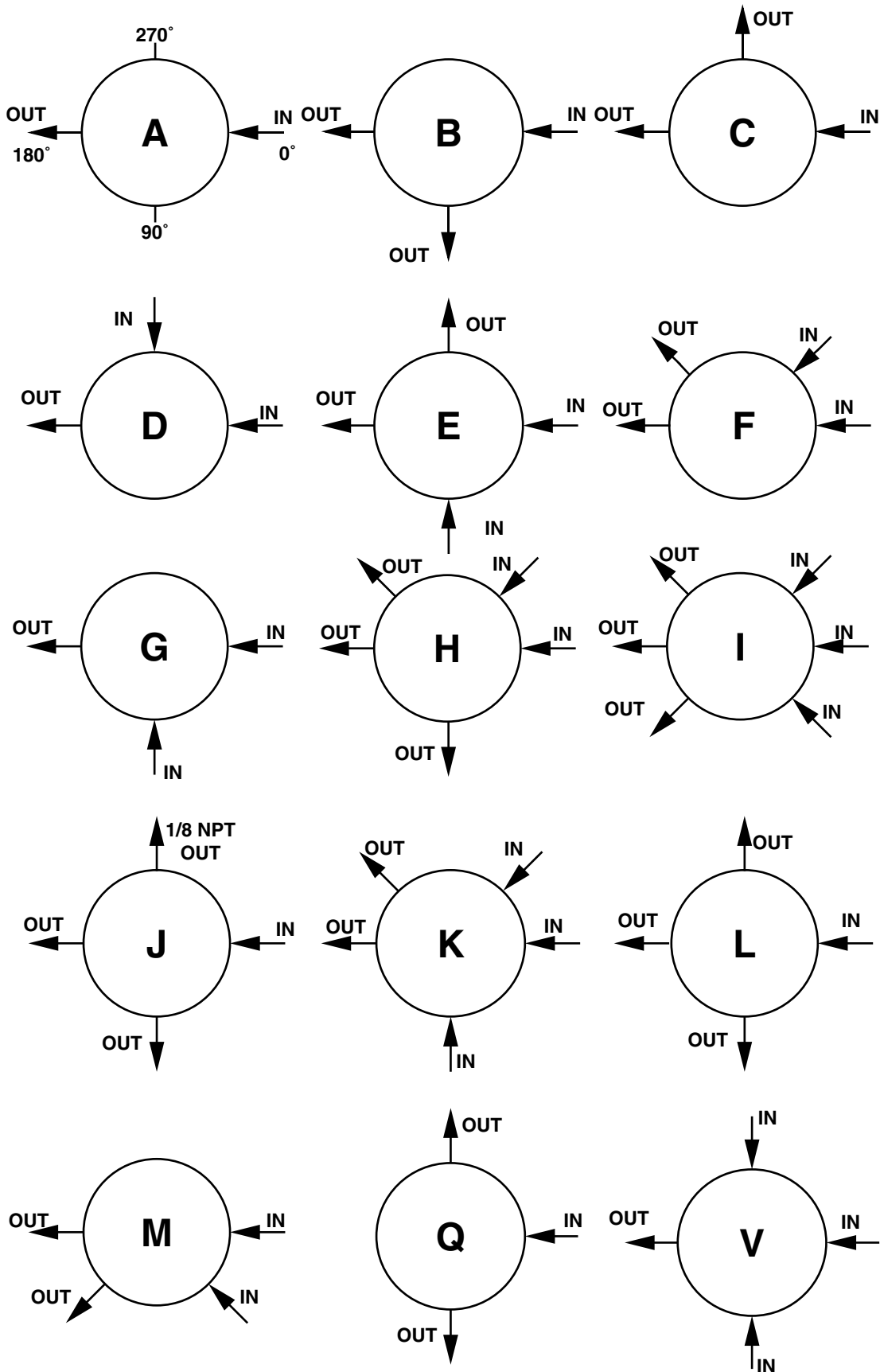
# PR-9 Series - Pressure Reducing Regulator

<b>Material of Body</b>	
1	316L S.S. (650° F)
9	347 S.S. (1000° F)
<b>Port Configuration (see page 4)</b>	
STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
<b>Process port types (gauge port type, if specified)</b>	
1	1/4" FNPT (1/4" FNPT Gauge Ports)
2	1/4" Tube (1/4" Tube Gauge Ports)
3	1/4" Sch 80 Pipe (1/4" FNPT Gauge Ports)
4	3/8" FNPT (1/4" FNPT Gauge Ports)
D	1/4" Pipe Socket (1/4" FNPT Gauge Ports)
6	1/2" Tube (1/4" Tube Gauge Ports)
B	1/4" Internal VCR (1/4" Tube Gauge Ports)
C	3/8" Tube (1/4" Tube Gauge Ports)
K	1/4" Sch 40 Pipe (1/4" FNPT Gauge Ports)
S	1/4" MVCR (1/4" Tube Gauge Ports)
<b>Surface Finish of Diaphragm Cavity</b>	
1	<25 Ra
<b>Seat Material</b>	
M	347 S.S.
<b>Flow Coefficient (Cv)</b>	
3	0.06
5	0.2
<b>Outlet Range</b>	
C	0 - 10 Psig
D	0 - 25 Psig
E	0 - 50 Psig
G	0 - 100 Psig
I	0 - 250 Psig
<b>Diaphragm Type</b>	
1	Standard
<b>Diaphragm Liner / Backing</b>	
G	Tantalum
<b>Cap Assembly</b>	
1	Standard, S.S.
4	Panel Mount, S.S.
N	Contained Bonnet, S.S.

PR9 -

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



LOCATION OF PORTS FROM TOP VIEW