

# **GO** REGULATOR, INC.

A division of CIRCOR International, Inc.

## **SPR Series Subatmospheric Pressure Regulator**



The SPR Series Subatmospheric Pressure Regulator is designed for the introduction of a low vapor pressure reactive or purge gas into a subatmospheric process. The large diameter diaphragm provides optimum sensitivity for subatmospheric or positive pressure control.

Standard features allow service in many varied applications including corrosive fluids and, with the optional features available, the user can tailor this regulator to applications ranging from semiconductor processing to analytical instrumentation.

### **Features & Specifications**

- Subatmospheric or positive pressure control
- 20 Micron inlet filter
- 316L stainless steel or brass construction
- Large stainless steel diaphragm with Teflon® lining for optimal pressure control
- Inlet pressure range from 15–160 psia (0–145 psig)
- Adjustable outlet pressure range of 1–30 psia (27.88 in. H<sub>2</sub>O – 15.3 psig)
- C<sub>v</sub> flow coefficient of 0.2
- Bubble tight shutoff
- Operating temperatures -40° F (-40° C) to +250° F (+121° C)
- Inlet/outlet connections 1/4" FNPT

### **Options**

- High purity welded connections
- Class 100 assembly
- Extra ports
- Panel mount (requires 1 3/8" mounting hole)
- Pressure gauges

2301 Wardlow Circle  
Corona, CA 92880  
tel 909.270.6200  
fax 909.270.6201  
www.goreg.com  
sales@goreg.com

# SPR Series

## Subatmospheric Pressure Regulator

### How to Order

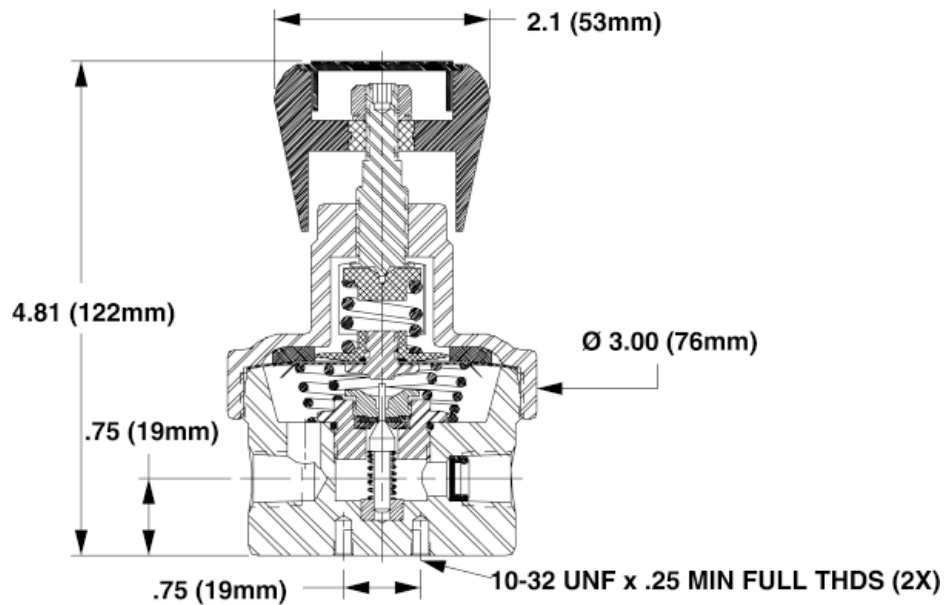
See page 3 for standard configurations. For additional configurations, consult the factory.  
See page 4 for port locations.

### Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	145 psig (1000 kpa)
Viton®	250° F (121° C)	@	145 psig (1000 kpa)
Kalrez®	250° F (121° C)	@	145 psig (1000 kpa)

\* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.  
Tefzel®, Viton® and Kalrez® are registered trademarks of Dupont Corporation.

### Outline and Mounting Dimensions



Weight - 3.2 lbs (1.45 kg)

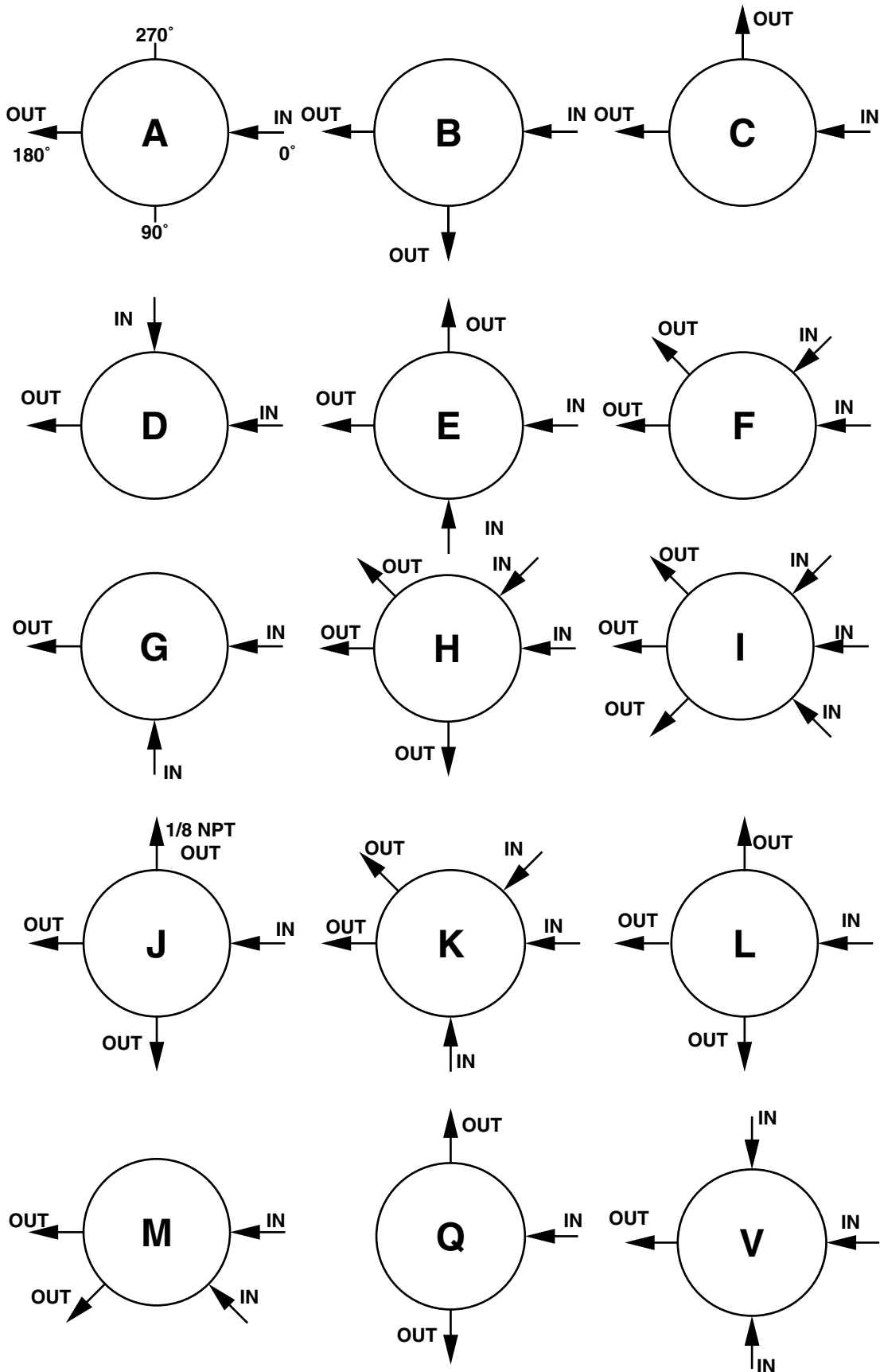
# SPR Series - Pressure Reducing Regulator

<b>Material of Body</b>	
1	SS 316L
2	Brass
4	Monel
6	Hastelloy C
<b>Port Configuration (see page 4)</b> STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
A	
<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)
4	3/8" FNPT (1/4" FNPT Gauge Ports)
<b>Surface Finish of Diaphragm Cavity</b>	
1	<25 Ra
<b>Seat Material</b>	
A	Tefzel
D	Viton
K	Kalrez
<b>Flow Coefficient (Cv)</b>	
Cv	
5	0.2
C	0.025
<b>Output Range</b>	
A	1 - 30 Psia
<b>Diaphragm Type</b>	
1	Standard
<b>Diaphragm Facing / Backing</b>	
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
<b>Cap Assembly</b>	
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.
H	1/4" NPT Dome Loaded

S P R -

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