

# GO REGULATOR

## 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)
- Cv flow coefficient of 0.2
- Bubble-tight shutoff
- Operating temperatures -40° F to +250° F (-40° C to +121° C)
- Inlet/outlet connections ¼" FNPT

### Options

- High purity welded connections
- Class 100 assembly
- Extra ports
- Panel mount (requires 1⅜" mounting hole)
- Pressure gauges

pressure regulators

#### GO Regulator

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# SPR Series

## How to Order

**SPR -**

### 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)
- 2 ¼" tube stub, 2" long, (¼" FNTP gauge ports)
- 4 ⅜" FNPT (¼" FNPT gauge ports)

### SURFACE FINISH OF DIAPHRAGM CAVITY

- 1 < 25 Ra, standard

### SEAT MATERIAL

- A Tefzel®
- D Viton®
- K Kalrez®

### FLOW COEFFICIENT (Cv)

- 5 0.2
- C 0.025
- H 0.5

### OUTLET RANGE

- A 1-30 psia

### 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, stainless steel

### DIAPHRAGM FACING/BACKING

- 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

NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at [www.gore.com](http://www.gore.com) or contact the factory.

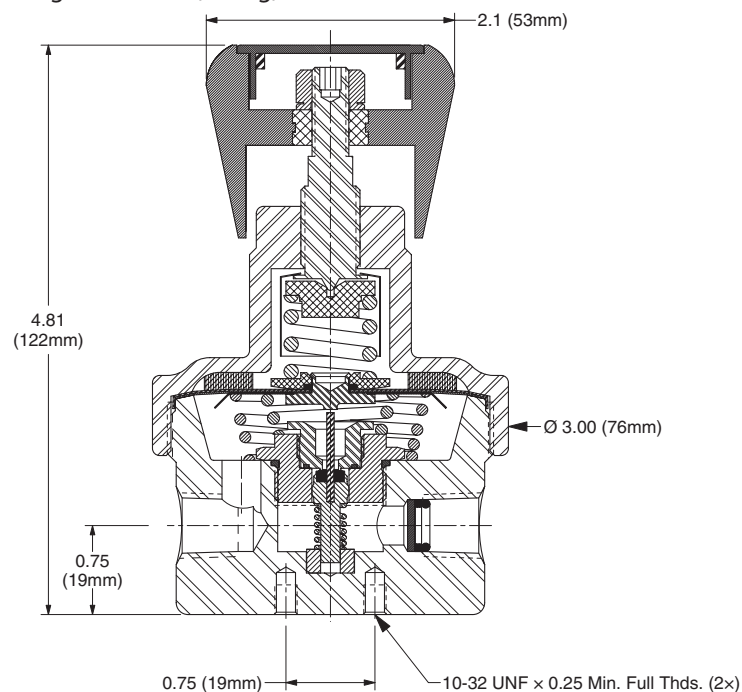
## Maximum Temperature & Operating Inlet Pressures

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 a metal knob or the tamper-proof option.

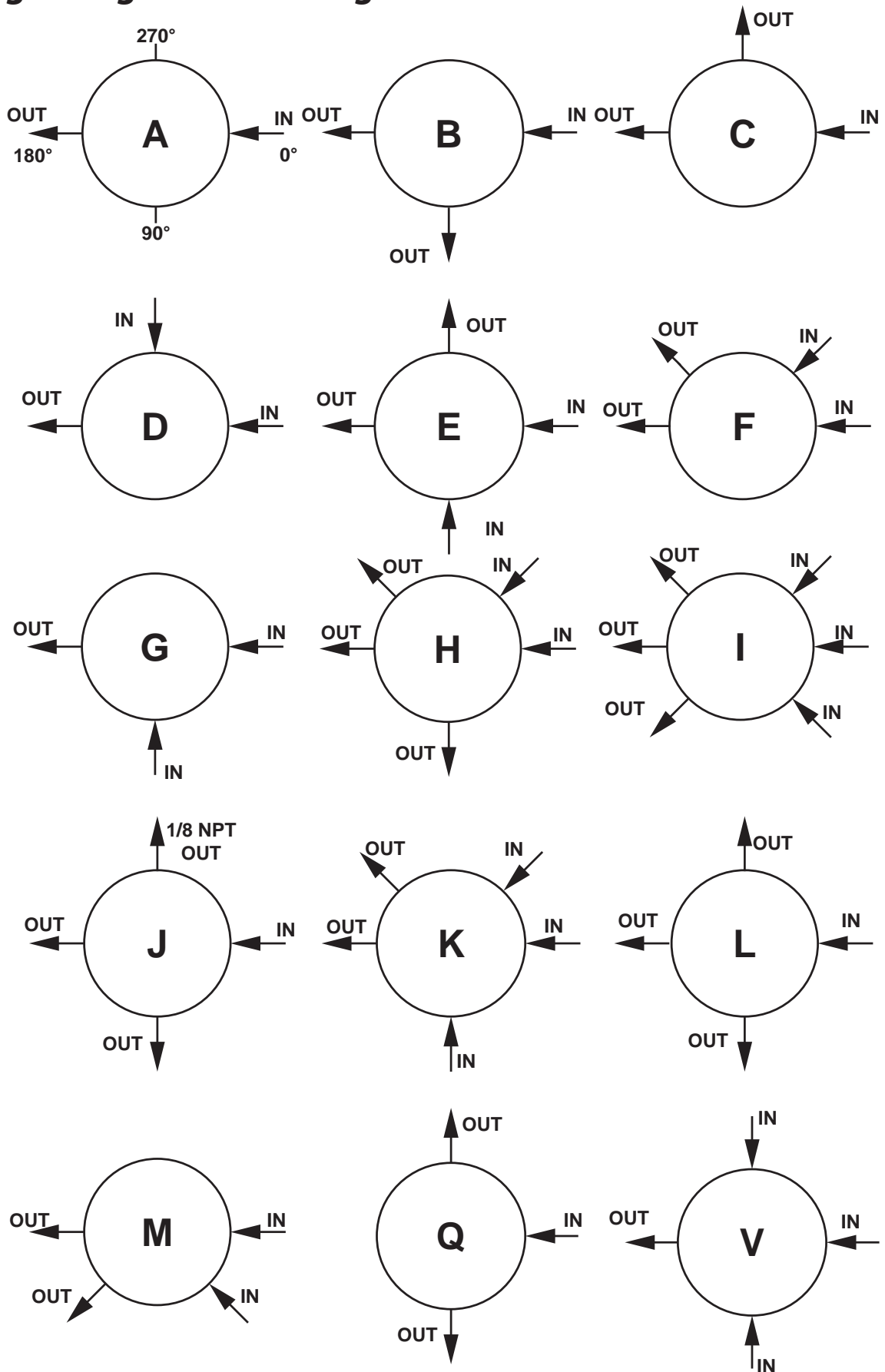
## Outline and Mounting Dimensions

Weight = 3.2 lbs (1.45kg)



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# Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM  
TOP VIEW