# **GO**REGULATOR, INC.

# **SBPR Series**

Subatmospheric Back Pressure Regulators

### **Introduction**

The SBPR Series subatmospheric back pressure regulator is designed to provide precise upstream vacuum control. One example of this could be to introduce a sample gas at a positive pressure into a vacuum chamber. Downstream from this chamber would be the SBPR and a vacuum pump. The positive pressure will build up in the chamber causing the SBPR to open and allow the chamber to return to the vacuum desired. The SBPR will then close and the process will repeat. The large diameter diaphragm aided by a vacuum assist spring, provides the user with optimum sensitivity for subatmospheric pressure control.



# pressure regi

### **Typical Applications**

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

### **Technical Data**

CONSTRUCTION	316L stainless steel or brass (standard) Monel® and Hastelloy® C-276 (optional)
ADJUSTABLE PRESSURE CONTROL RANGES	1–30 psia (–27.7 in. H2O to 15.3 psig)
OPERATING TEMPERATURE	-40° F to +300° F (-40° C to +148° C)
C <sub>V</sub> COEFFICIENT	0.2
INLET/OUTL ET CONNECTIO	1/4" FNPT

### Features & Benefits

- Subatmospheric or positive back pressure control
- Large diaphragm for sensitive pressure control

### **Options**

- Extra ports
- Panel mount (requires a 1<sup>3</sup>/<sub>8</sub>" mounting hole)
- Pressure gauges
- Optional welded connections
- Smaller orifice sizes available: 0.005, 0.03

# Subatmospheric Back Pressure Regulators

Maximum Temperature and Control Pressures

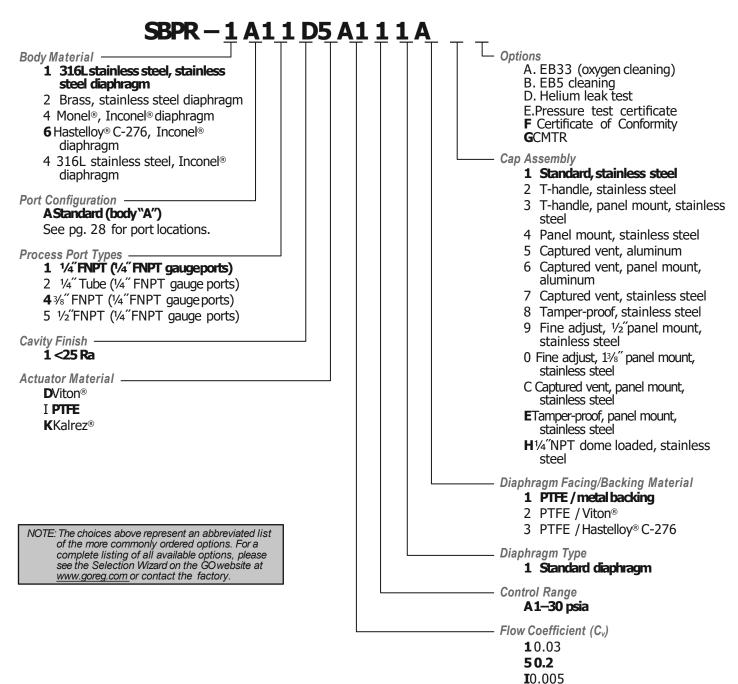
SEAT MATERIAL	MAXIMUMTEMPERATURE	@	MAXIMUMCONTROL RANGE
Viton®	250° F (121° C)	@	1–30 psia
Kalrez®	300° F (148° C)	@	1–30 psia
Teflon®	200° F (93° C)	@	1-30 psia

Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.

ToOrder, contact your local Distributor Link below: www.goreg.com/distributor/index.htm Verifythatyourchosen partrumberis validusing the GOW lizards at www.goregcom/poduds/metric/indexhim

### **How to Order**

For additional configurations, consult the factory. Standard items in bold.



# Subatmospheric Back Pressure Regulators

## **Outline and Mounting Dimensions**

