

GO REGULATOR

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 regulators

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. H ₂ O to 15.3 psig)
OPERATING TEMPERATURE	–40° F to +300° F (–40° C to +148° C)
C _v COEFFICIENT	0.2
INLET/OUTLET CONNECTIONS	¼" FNPT

Features & Benefits

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

Options

- Extra ports
- Panel mount (requires a 1⅜" mounting hole)
- Pressure gauges
- Optional welded connections
- Smaller orifice sizes available: 0.005, 0.03

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Subatmospheric Back Pressure Regulators

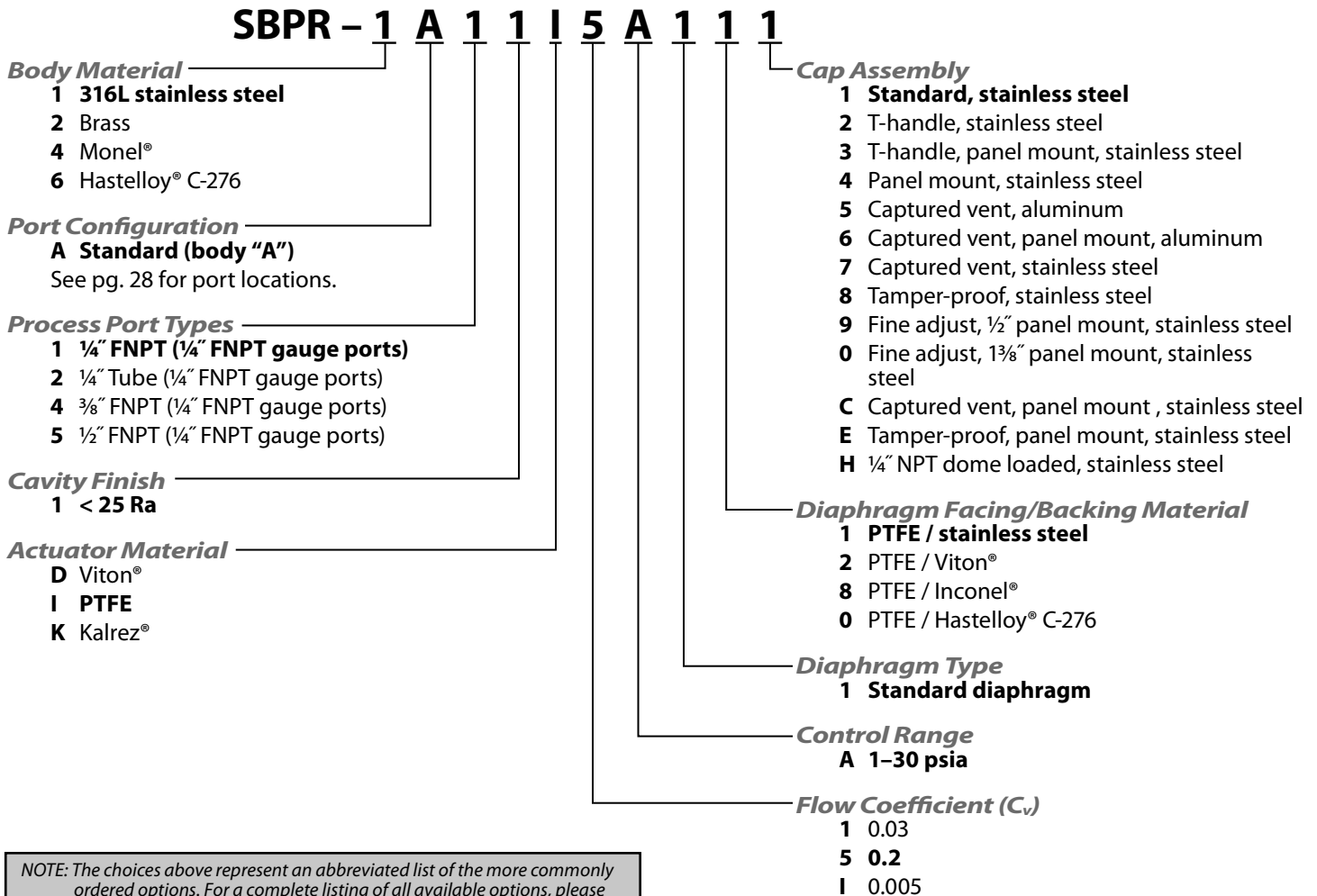
Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	1–30 psia
Kalrez®	300° F (148° C)	@	1–30 psia
PTFE	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.

How to Order

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



For flow curve charts, visit <http://www.goreg.com>.

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Outline and Mounting Dimensions

