



SBPR Series Subatmospheric Back Pressure Regulator

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 of 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.

Features & Specifications

- · Subatmospheric or positive back pressure control
- · Stainless steel or brass construction
- Large diaphragm for sensitive pressure control
- Adjustable pressure control range 1-30 psia (-27.7in. H₂O to 15.3 psig)
- C_v flow coefficient 0.2
- Operating temperatures -40° F (-40° C) to +300° F (+148° C)
- Inlet / outlet connections 1/4" FNPT

Options

- Extra ports
- Panel mount (requires a 1 3/8" mounting hole)
- · Pressure gauges
- · Optional welded connections
- Smaller orifice size available—0.03
- · Monel and Hastelloy

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SBPR Series

Subatmospheric Back Pressure Regulator

How to Order

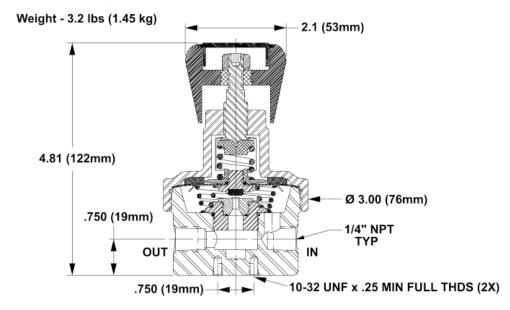
See page 3 for standard configurations. For additional configurations, consult the factory. See page 4 for port locations.

Maximum Temperature & Control Pressures

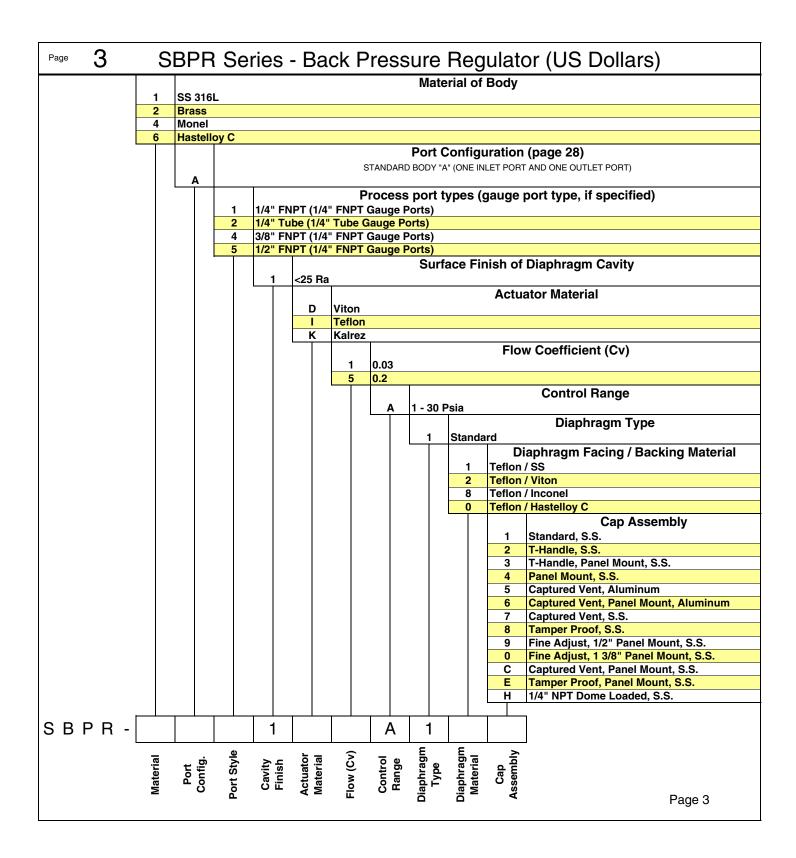
Seat Material	Maximum Temperature*	@	Maximum Control Range
Viton®	250° F (121° C)	@	1 - 30 psia
Kalrez®	300° F (148° C)	@	1 - 30 psia
Teflon®	200° F (93° C)	@	1 - 30 psia

^{*} Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option. Viton®, Kalrez® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions



For flow curve charts, go to www.goreg.com/catalog/pr/back/sbpr/sbpr_flow.htm.



PORT LOCATIONS (BACK PRESSURE REGULATORS)

