

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.



Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

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|---------------------------------------|--|
| 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

GO Regulator

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pressure regulators

Maximum Temperature and Control Pressures

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

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



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Outline and Mounting Dimensions

