GO_{REGULATOR}, INC.

LB-1 Series

Ultra-miniature Back Pressure Regulators

Introduction

The LB-1 is an ultra-miniature back pressure regulator that employs many of the same features found in the time-tested design of the CBP-3 & BP-3 Series back pressure regulators. Designed for surface, panel or manifold mounting, the LB-1 offers the utmost in versatility to the systems designer. It's low internal volume of less than 3cc makes the LB-1 the perfect choice for systems that require rapid purge cycles. Standard features permit using this regulator in a wide variety of services, including corrosive fluids. The LB-1 can be tailored to virtually any application by choosing the optional features. This regulator is designed to allow the construction of compact and sophisticated analytical instrumentation where the optimum in back pressure control is required and space is at a premium.



Typical Applications

- Instrumentation systems requiring rapid purge cycles
- Systems with limited space availability
- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel, aluminum, brass, or Monel®
ADJUSTABLE STANDARD PRESSURE RANGES	0–10, 0–25, 0–50, 0–100, 0–250 and 0–500 psig
OPERATING TEMPERATURE	-40° F to +500° F (-40° C to +260° C)
C_V COEFFICIENT	0.2

Features & Benefits

- Gas or liquid service
- Electro-polished body with better than 25 Ra finish in diaphragm cavity
- Bubble tight shutoff

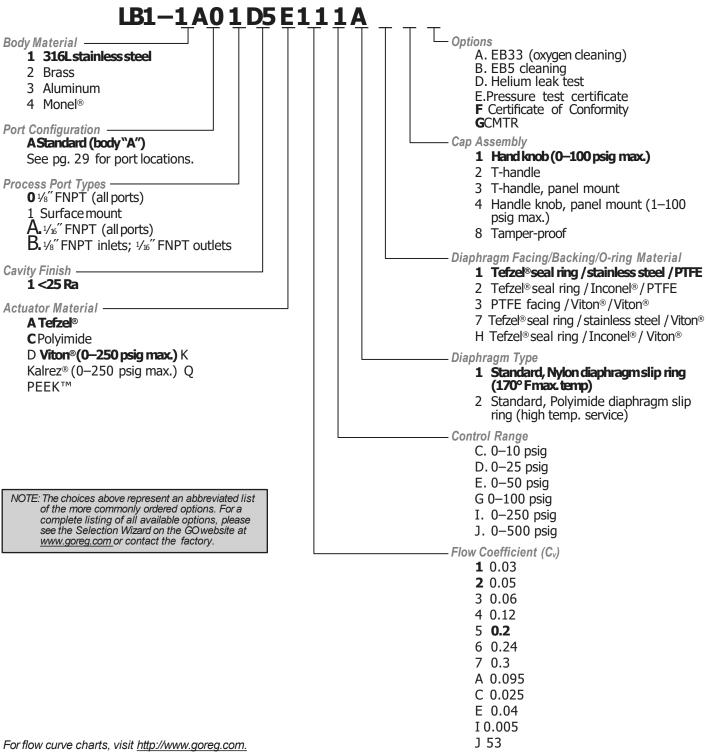
Ultra-miniature Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL MAXIVUM TEMPERATURE @ MAXIVUM CONTROL RANGE Viton® 250° F (121° C) @ 250 psig (1.72 MPa) Kalrez® 300° F (148° C) @ 250 psig (1.72 MPa) Tefzel® 175° F (80° C) @ 500 psig (3.44 MPa) Polyimide 500° F (260° C) @ 500 psig (3.44 MPa) PEEK™ 500° F (260° C) @ 500 psig (3.44 MPa)
Kalrez® 300° F (148° C) @ 250 psig (1.72 MPa) Tefzel® 175° F (80° C) @ 500 psig (3.44 MPa) Polyimide 500° F (260° C) @ 500 psig (3.44 MPa)
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PEEK [™] 500° F (260° C) @ 500 psig (3.44 MPa)

How to Order

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





Ultra-miniature Back Pressure Regulators

Outline and Mounting Dimensions

