# **GO**REGULATOR

## **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
OPERATINGTEMPERATURE	-40° F to +500° F (-40° C to +260° C)
C <sub>V</sub> COEFFICIENT	0.2

## Features & Benefits

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

#### GO Regulator

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 574-5608 www.goreg.com • sales@goreg.com

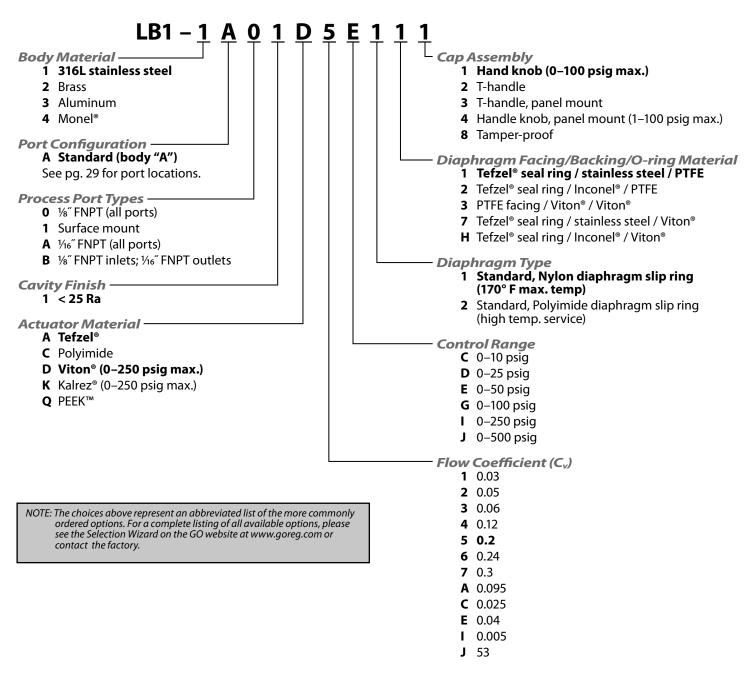
## **Ultra-miniature Back Pressure Regulators**

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SI	EAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM 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)

#### Maximum Temperature and Control Pressures

#### How to Order

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

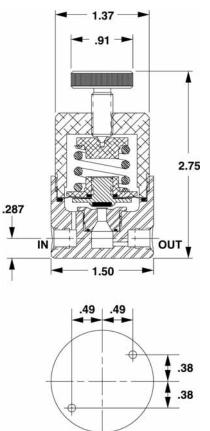


For flow curve charts, visit http://www.goreg.com.

## **Ultra-miniature Back Pressure Regulators**

## **Outline and Mounting Dimensions**

## Stand Alone Unit



Surface Mount (Manifold) Unit

