

### Pressure & Vacuum

Flow Level & Temperature Tube & Fittings

HVACR
Custom Services

## **BP-8 Series**

**High Flow Back Pressure Regulators** 

### Introduction

This series is designed to control back pressure at low to moderate pressure ranges with relatively high flow. While designed primarily for instrumentation systems and similar to the PR-7, the BP-8 is also suitable for pilot plant, research and development activities. Special diaphragm and spring combinations give the user a selection of pressure ranges that are near atmospheric. The glass filled PTFE / stainless seat assembly gives tight shut off even at lower flows for most applications.

The 316 stainless steel body assembly provides service for most chemical environments and brass models are available for those applications not requiring that type of corrosion resistance. If special requirements demand other materials of construction, please contact the factory.



### **Typical Applications**

- Instrumentation systems
- Pilot plants
- Air compressors

#### **Technical Data**

CONSTRUCTION	316L stainless steel or brass (standard) Monel® or Hastelloy® C-276 (optional)		
ADJUSTABLE STANDARD PRESSURE RANGES	0–10, 0–25, 0–50, 0–100, 0–250, and 0–500 psig		
OPERATINGTEMPERATURE	-40° F to +250° F (-40° C to +121° C)		
C <sub>V</sub> COEFFICIENT	1.2 (standard) 0.40 and 0.70 (optional)		
INLET & OUTLET CONNECTIONS	1/4" FNPT		

### **Features & Benefits**

- Pressure control of large flows
- Standard stainless steel diaphragm, PTFE faced

### **Options**

- Panel mounting
- Extra ports
- 3%" FNPT, ½" FNPT, ¼" tube weld, ¼" pipe weld, ½" tube weld

#### **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

### **High Flow Back Pressure Regulators**

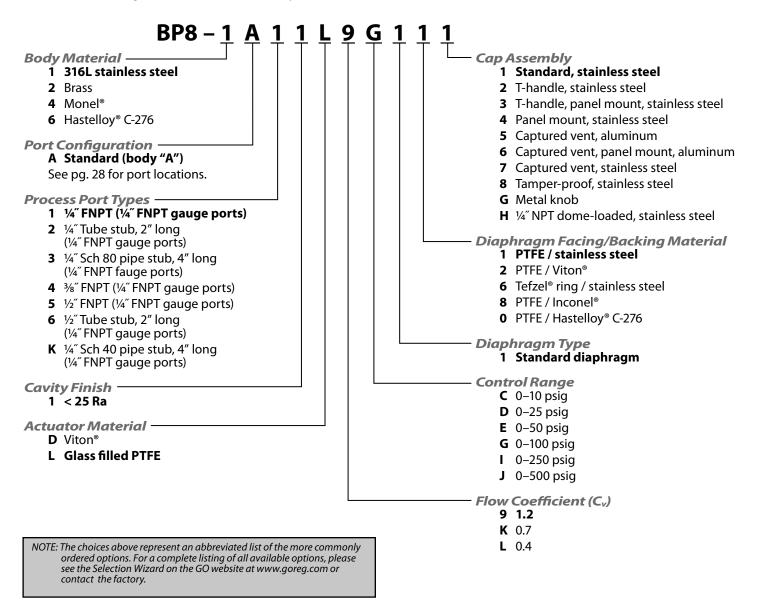
**Maximum Temperature and Control Pressures** 

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.72 MPa)
Glass filled PTFE	250° F (121° C)	@	500 psig (3.44 MPa)

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

#### **How to Order**

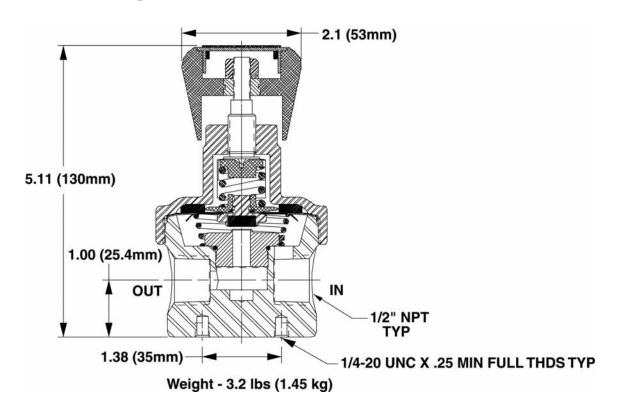
For additional configurations, consult the factory. Standard items in bold.



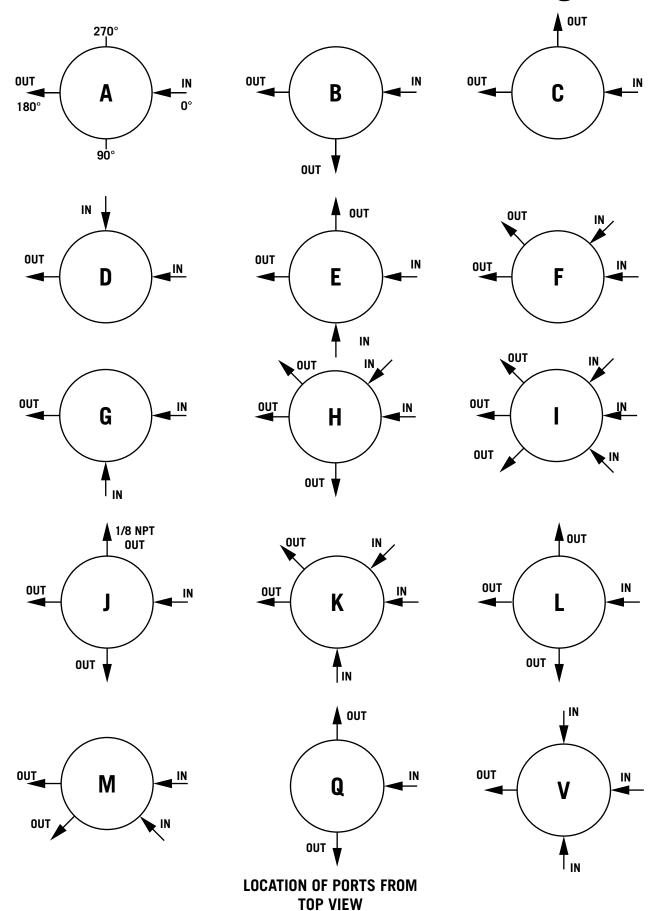
For flow curve charts, visit http://www.goreg.com.

# **High Flow Back Pressure Regulators**

## **Outline and Mounting Dimensions**



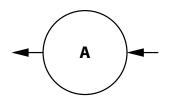
# **Port Locations (Back Pressure Regulators)**

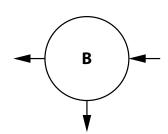


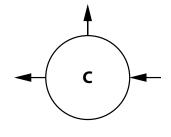
# Porting Options for LB-1 Back Pressure Valve

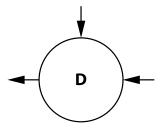
Arrow pointing toward body is inlet, arrow pointing away from body is outlet.

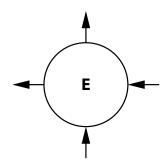
### **LOCATION OF PORTS FROM TOP VIEW**

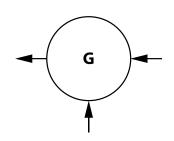


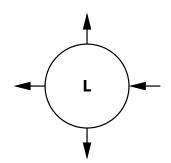


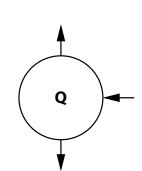


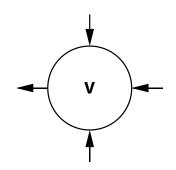






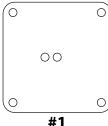






### **SURFACE MOUNT STYLES**

requires "Surface Mount" port type connections



Center port is outlet, all other ports are inlets. Location of ports from bottom view