GO REGULATOR, INC.

BP-3 Series

Adjustable Back Pressure Regulators

Introduction

The BP-3 Series is designed for either liquid or gas service in instrumentation systems. Similar in design to pressure reducing control regulators which regulate outlet pressures, back pressure regulators control the inlet pressure. The many features of this regulator, particularly its precise throttling action, make it ideal for this type of application. In low flow or closed systems, over-pressures often are released by pressure relief valves. This type of relief is on-off with no throttling control. In contrast to relief valves. the back pressure control regulator with its throttling action substantially improves system pressure regulation.



Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Petrochemical industry
- Air compressors
- Research labs
- Pilot plants

Technical Data

CONSTRUCTION	316L stainless steel		
ADJUSTABLE PRESSURE CONTROL RANGES	0-6, 0-10, 0-25, 0-50, 0-100, 0-250, 0-500, 0-750 & 0-1000 psig		
OPERATING TEMPERATURE	-40° F to +500° F (-40° C to +260° C)		
C _V COEFFICIENT	0.2		
OPTIONAL VARIOUS ORIFICE SIZES	0.005, 0.01, 0.025, 0.03, 0.04, 0.05, 0.06, 0.095, 0.12, 0.24, and 0.3		

Features & Benefits

- Only 316L stainless steel and PTFE in flow stream
- Bubble tight shutoff
- Gas or liquid service

Options

- Wetted materials of construction brass, Monel®, Hastelloy® C-276, titanium
- Extra ports
- Panel mount (requires a 13/8" mounting hole)
- High purity connections
- Pressure gauges

Adjustable Back Pressure Regulators

Maximum Temperature and Control Pressures

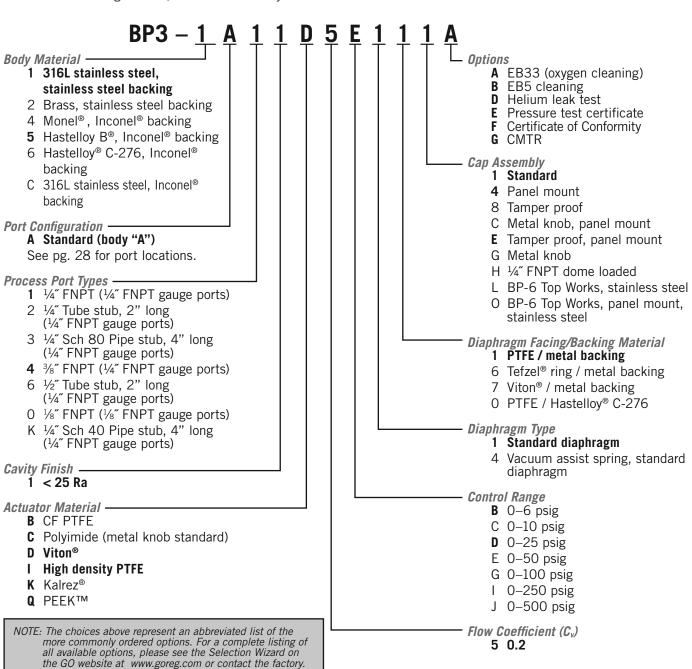
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	250 psig (1.71 MPa)
Kalrez®	300° F (148° C)	@	250 psig (1.72 MPa)
High Density PTFE	200° F (93° C)	@	500 psig (5.16 MPa)
Polyimide	500° F (260° C)	@	1000 psig (6.88 MPa)
PEEK™	500° F (260° C)	@	1000 psig (6.88 MPa)

Note: Temperatures in excess of 175° F (79° C) require the use of a metal knob or the tamper proof option.

To Order, contact your local Distributor Link below: <u>www.goreg.com/distributor/index.htm</u> Verify that your chosen part number is valid using the **GO** Wizards at www.goreg.com/products/matrix/index.htm

How to Order

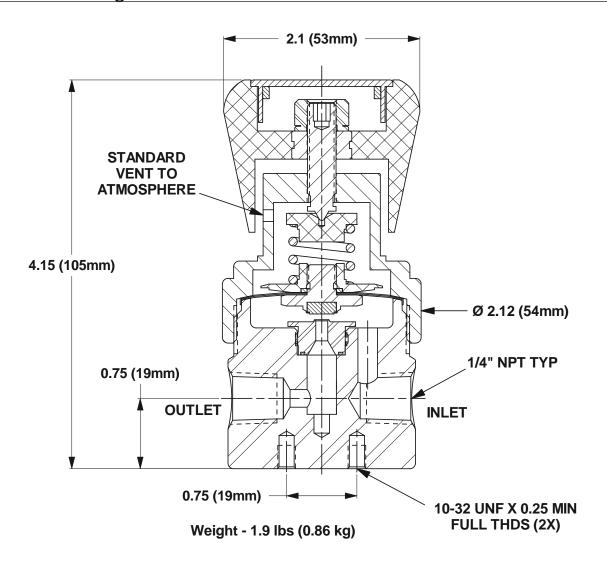
For additional configurations, consult the factory. Standard items in bold.



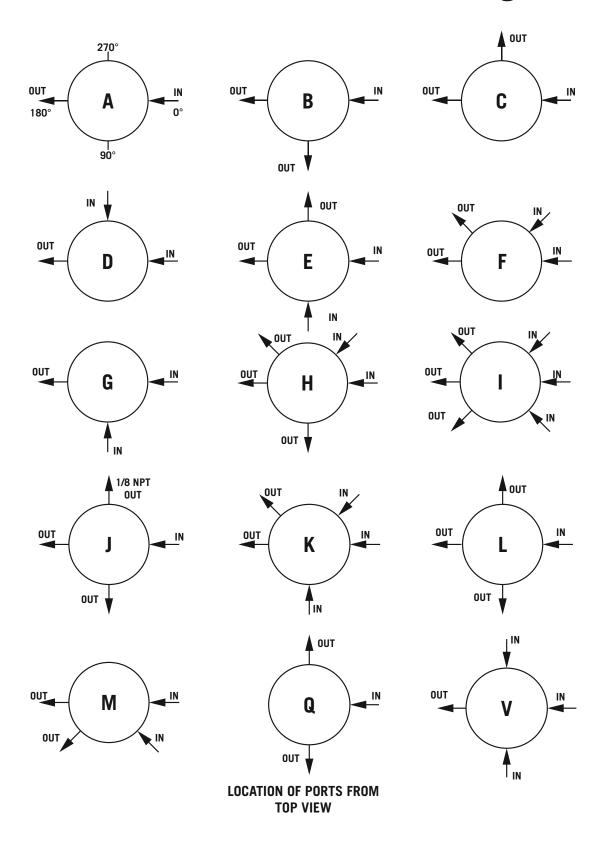
For flow curve charts, visit http://www.goreg.com.

Adjustable Back Pressure Regulators

Outline and Mounting Dimensions

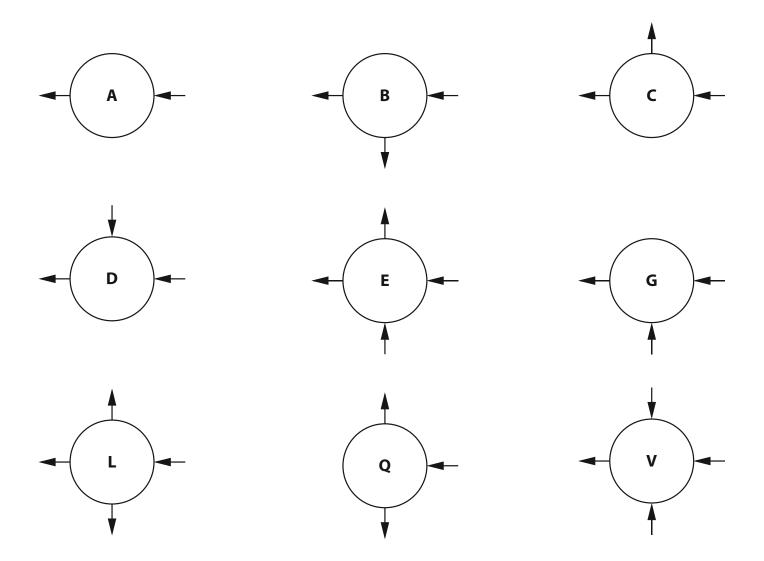


Port Locations (Back Pressure Regulators)



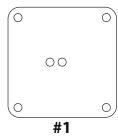
Porting Options for LB-1 Back Pressure Valve

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