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
- <u>Petrochemical industry</u>
- <u>Air compressors</u>
- Research labs
- Pilot plants

Technical Data

CONSTRUCTION	316L stainless steel		
ADJUSTABLEPRESSURE CONTROLRANCES	0-6, 0-10, 0-25, 0-50, 0-100, 0-250, 0-500, 0-750 & 0-1000 psig		
OPERATINGTEMPERATURE	-40° F to +500° F (-40° Cto +260° C)		
GACOEFFICIENT	0.2		
OPTIONALVARIOUS ORIFICESIZES	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

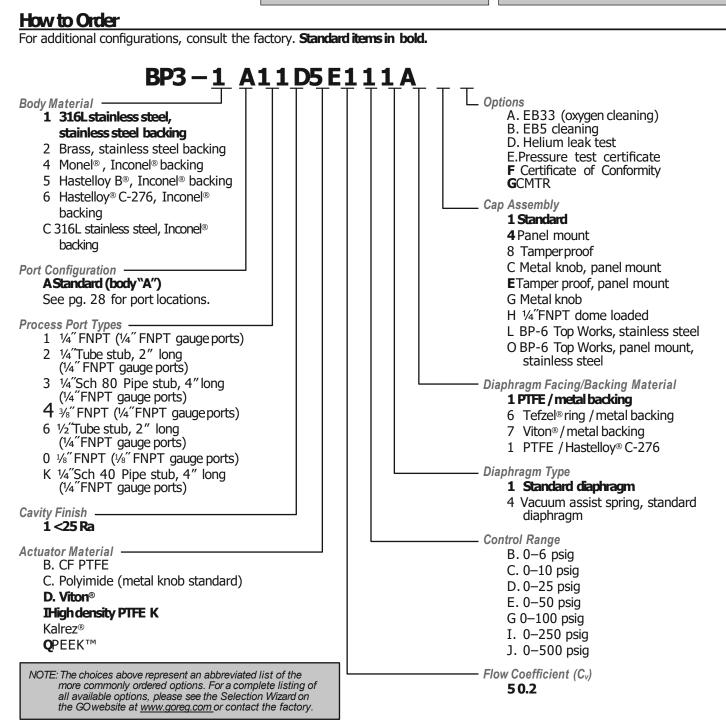
- Wetted materials of construction brass, Monel[®], Hastelloy[®] C-276, titanium
- Extra ports
- Panel mount (requires a 13/8" mounting hole)
- High purity connections
- Pressure gauges

Adjustable Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUMTEMPERATURE	@	MAXIMUMCONIRCLRANGE
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)
Polyimide	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.



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Adjustable Back Pressure Regulators

Outline and Mounting Dimensions

