



# **BP-3 Series**Adjustable Back Pressure Regulators

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.

# **Features & Specifications**

- Only 316L stainless steel and Teflon® in flow stream
- 316L stainless steel construction
- Operating temperatures of -40° F (-40° C) to +500° F (+260° C)
- · Bubble tight shutoff
- · Gas or liquid service
- Adjustable pressure control ranges of 0–6, 0–10, 0–25, 0–50, 0–100, 0–250, 0–500, 0–750 & 0–1000 psig
- C<sub>v</sub> flow coefficient is 0.2

# **Options**

- · Wetted materials of construction brass, Monel, Hastelloy, Titanium
- Extra ports
- Panel mount (requires a 1 3/8" mounting hole)
- · High purity connections
- · Pressure gauges
- Various orifice sizes: .03, .05, .06, .12, .24, .3, .095, .025, .04, .005 and .01

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# **BP-3 SERIES**

# **Adjustable Back Pressure Regulators**

#### **How to Order**

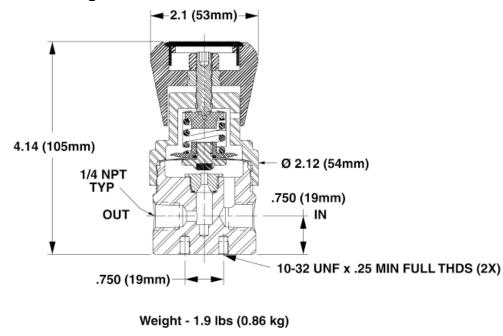
See page 3 for standard configurations. For additional configurations, consult the factory. See page 4 for port locations

### **Maximum Temperature and Control Pressures**

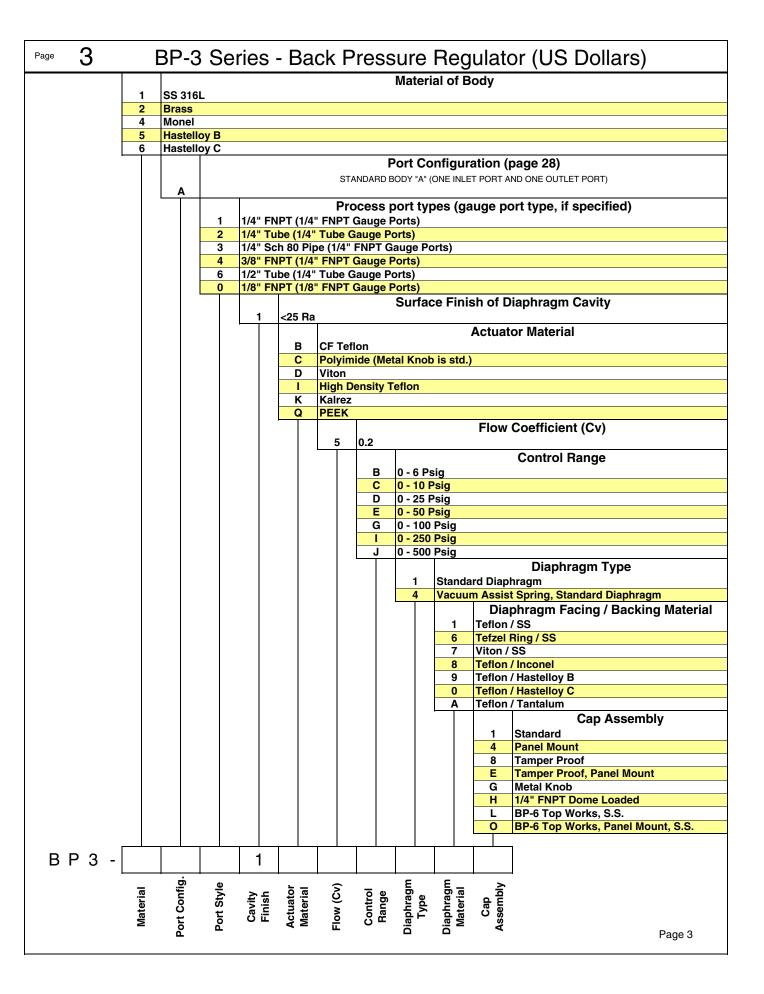
Seat Material	Maximum Temperature	@	Maximum Control Range
Viton®	250° F (121° C)	@	250 psig (1.71 MPa)
Kalrez®	300° F (148° C)	@	250 psig (1.72 MPa)
High Density Teflon®	200° F (93° C)	@	500 psig (5.16 MPa)
Polyimide	500° F (260° C)	@	1000 psig (6.88 MPa)
PEEK	500° F (260° C)	@	1000 psig (6.88 MPa)

Note: Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option. Viton®, Kalrez® and Teflon® are registered trademarks of Dupont.

# **Outline and Mounting Dimensions**



For flow curve charts go to www.goreg.com/catalog/pr/back/bp3/bp3\_flow.htm.



# PORT LOCATIONS (BACK PRESSURE REGULATORS)

