

BP-3 Series Back Pressure Control Regulators



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

- Gas or liquid service
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 316L stainless steel construction
- Bubble tight shutoff
- Adjustable control ranges are 10, 25, 50, 100, 250 and 500 psig
- Proof pressure is 2 times maximum working pressure
- Weight: 1.9 lbs (0.86 kg)
- Mounting style is surface or panel

Maximum Temperature & Control Pressures

Seat 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)
High Density PTFE	200° F (93° C)	@	500 psig (5.16 MPa)
CF PTFE	300° F (148° 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)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the Tamper Proof option