

GO REGULATOR

BP-8LF Series

High Sensitivity Back Pressure Regulators

Introduction

The BP-8LF Series back pressure regulator is designed to furnish precise low back pressure control in analytical instrumentation. With the combination of the large diaphragm sensing area of the BP-8 Series Regulator and the low flow seat assembly of the BP-3 Series pressure regulator, pressure control down to 10 inches of water is easily obtainable.



pressure regulators

Typical Applications

- Analytical instrumentation
- Gas and liquid sampling
- Research labs

Technical Data

CONSTRUCTION	316L stainless steel (standard) Monel® or Hastelloy® C-276 (optional)
ADJUSTABLE STANDARD PRESSURE RANGES	0–6, 0–25, 0–50, 0–75, 0–125, 0–250 & 0–500 psig
OPERATING TEMPERATURE	–40° F to +500° F (–40° C to +260° C)
C_v COEFFICIENT	0.2 (standard) 0.03, 0.05, 0.06, 0.12, 0.24, 0.3, 0.095, 0.025, 0.04, 0.005, 0.01 (optional)
INLET & OUTLET CONNECTIONS	¼" FNPT

Features & Benefits

- Sensitive pressure control
- Low pressure adjustability
- Standard PTFE / Viton® diaphragm

Options

- PTFE / stainless steel diaphragm

GO Regulator

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High Sensitivity Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	500 psig (5.16 MPa)
Kalrez®	300° F (148° C)	@	500 psig (5.16 MPa)
High density PTFE	200° F (93° C)	@	500 psig (5.16 MPa)
Polyimide	500° F (260° C)	@	500 psig (5.16 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.**

BP8L – 1 A 1 1 D 5 D 1 2 1

Body Material

- 1 316L stainless steel**
- 2 Brass
- 4 Monel®

Port Configuration

A Standard (body "A")
See pg. 28 for port locations.

Process Port Types

- 1 ¼" FNPT (¼" FNPT gauge ports)**
- 2 ¼" tube stub, 2" long (¼" FNPT gauge ports)
- 4 ⅜" FNPT (¼" FNPT gauge ports)
- 5 ½" FNPT (¼" FNPT gauge ports)
- 6 ½" tube stub, 2" long (¼" FNPT gauge ports)

Cavity Finish

- 1 < 25 Ra**

Actuator Material

- B CF PTFE**
- C Polyimide
- D Viton®**
- I High density PTFE**
- K Kalrez®

Cap Assembly

- 1 Standard, stainless steel**
- 2 T-handle, stainless steel
- 3 T-handle, panel mount, stainless steel
- 4 Panel mount, stainless steel
- 5 Captured vent, aluminum
- 6 Captured vent, panel mount, aluminum
- 7 Captured vent, stainless steel
- 8 Tamper-proof, stainless steel
- 9 Fine adjust, ½" panel mount, stainless steel

Diaphragm Facing/Backing Material

- 1 PTFE / stainless steel**
- 2 PTFE / Viton®**
- 5 Viton® / stainless steel
- 6 Tefzel® ring / stainless steel
- 7 Tefzel® ring / Hastelloy® C-276
- 8 PTFE / Inconel®
- 0 PTFE / Hastelloy® C-276

Diaphragm Type

- 1 Standard diaphragm**

Control Range

- B 0– psig**
- D 0–25 psig**
- E 0–50 psig
- F 0–75 psig
- H 0–125 psig
- I 0–250 psig
- J 0–500 psig

Flow Coefficient (C_v)

- 5 0.2**

NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

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

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Outline and Mounting Dimensions

