

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, 0.06, 0.3, 0.025, 0.04, 0.005, (optional)
INLET & OUTLET CONNECTIONS	¼" FNPT

Features & Benefits

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

Options

- PTFE / Viton® diaphragm
- Panel mounting
- Extra ports
- ⅜" FNPT, ½" FNPT

High Sensitivity Back Pressure Regulators

Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Viton®	250° F (121° C)	@	500 psig (3.44 MPa)
Kalrez®	300° F (148° C)	@	500 psig (3.44 MPa)
High density PTFE	200° F (93° C)	@	500 psig (3.44 MPa)
Polyimide	500° F (260° C)	@	500 psig (3.44 MPa)
PEEK™	500° F (260° C)	@	500 psig (3.44 MPa)

Temperatures in excess of 175° F (80° C) require the use of a T-handle or the tamper proof option.

To Order, contact your local Distributor Link below:
www.goreg.com/distributor/index.htm

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.**

BP8L – 1 A 1 1 L 9 G 1 1 1 A

Body Material

- 1** 316L stainless steel, stainless steel diaphragm
- 2** Brass, stainless steel diaphragm
- 4** MONEL®, INCONEL® diaphragm
- 6** HASTELLOY® C, INCONEL® diaphragm
- C** 316L stainless steel, INCONEL® diaphragm

Port Configuration

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

Process Port Types

- 1** ¼" FNPT (¼" FNPT gauge ports)
- 4** ⅜" FNPT (¼" FNPT gauge ports)
- 5** ½" FNPT (¼" FNPT gauge ports)

Cavity Finish

- 1** < 25 Ra

Actuator Material

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

Options

- A** EB33 (oxygen cleaning)
- B** EB5 cleaning
- D** Helium leak test
- E** Pressure test certificate
- F** Certificate of Conformity
- G** CMTR

Cap Assembly

- 1** Standard, stainless steel
- 2** T-handle, stainless steel
- 3** T-handle, panel mount, stainless steel
- 4** Panel mount, stainless steel
- 7** Captured vent, stainless steel
- 8** Tamper-proof, stainless steel
- 9** Fine adjust, ½" panel mount, stainless steel
- O** Fine adjust, 1⅜" panel mount, stainless steel
- C** Captured vent, panel mount, stainless steel
- E** Tamper proof, panel mount, stainless steel
- H** ¼" NPT dome loaded, stainless steel

Diaphragm Facing/Backing Material

- 1** PTFE / metal backing, standard
- 2** PTFE / Viton®
- 5** Viton® / metal backing
- 6** Tefzel® ring / metal backing

Diaphragm Type

- 1** Standard diaphragm

Control Range

- B** 0–6 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)

- 1** 0.03
- 3** 0.06
- 5** **0.2**
- 7** 0.3
- C** 0.025
- E** 0.04
- I** 0.005

NOTE: Contact the factory for any additional requirements.

For flow curve charts, visit www.goreg.com.