

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

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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.

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 Wizard at
www.goreg.com/products/matrix/index.htm

How to Order

For additional configurations, consult the factory. **Standard items in bold.**

BP8L-1A11D5D121A

Body Material

- 1 316L stainless steel, stainless steel diaphragm**
- 2 Brass, stainless steel diaphragm
- 4 Monel®, Inconel® diaphragm C**
- 316L stainless steel, Inconel® diaphragm

Port Configuration

A Standard (body "A")

See pg. 28 for port locations.

Process Port Types

- 1 1/4" FNPT (1/4" FNPT gauge ports)**
- 2 1/4" tube stub, 2" long (1/4" FNPT gauge ports)
- 4 3/8" FNPT (1/4" FNPT gauge ports)**
- 5 1/2" FNPT (1/4" FNPT gauge ports)
- 6 1/2" tube stub, 2" long (1/4" 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**
- GCMTR**

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, 1/2" panel mount, stainless steel

Diaphragm Facing/Backing Material

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

Diaphragm Type

1 Standard diaphragm

Control Range

- B0- 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)

50.2

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

