

Custom Services

Pressure & Vacuum

Tube & Fittings **HVACR**

BP-60 Series

High Pressure Back Pressure Regulators

Introduction

The BP-60 Series is the counterpart of the PR-50 pressure reducing series for systems that are higher in pressure and low to moderate flows. This regulator has a diaphragm for maximum sensitivity in providing relief at high pressures. The PTFE stainless seat assembly provides good shutoff in most applications. For economy purposes the cap assembly and knob are of aluminum construction as in the PR-50 companion unit. Good sensitivity and a wide selection of control ranges make this regulator an excellent selection in many research and pilot plant facilities.



Typical Applications

- Sampling Systems
- Pilot plants
- Research labs

Technical Data

CONSTRUCTION		316L stainless steel or brass (alloy 360) Monel® and Hastelloy® C-276 (optional)			
ADJUSTABLE PRESSURE CONTROL RANGES		0-500, 0-1000 and 0-2000 psig			
OPERATINGTEMPERATURE		-40° F to +350° F (-40° C to +175° C)			
C _V COEFFICIENT		0.04			
INLET/OUT CONNECTION		1/4" FNPT			

Features & Benefits

- Designed for moderate flow applications
- Diaphragm sensing with nylon, PTFE or stainless steel diaphragm
- Bubble tight shutoff

Options

- Various Cv's available 0.005, 0.01, 0.025, 0.09
- Panel mounting
- 3/8" FNPT, AN 10050-4, SAE J514 or MS 33649 connections

GO Regulator

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 574-5608 www.goreg.com • sales@goreg.com

High Pressure Back Pressure Regulators

Maximum Temperature and Control Pressures

Nylon Diaphragm Backing

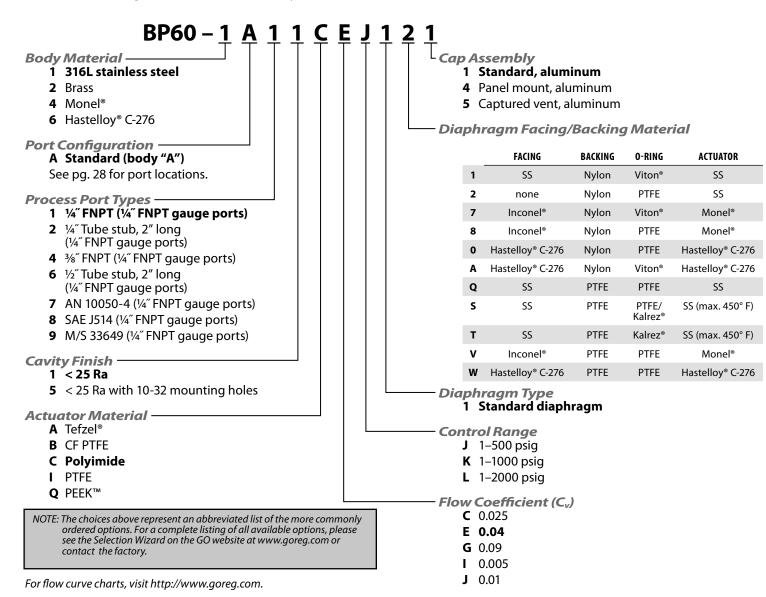
SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	1000 psig (6.89 MPa)
PTFE	175° F (80° C)	@	1000 psig (6.89 MPa)
Polyimide	175° F (80° C)	@	2000 psig (13.76 MPa)
PEEK™	175° F (80° C)	@	2000 psig (13.76 MPa)

PTFE Diaphragm Backing

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Tefzel®	175° F (80° C)	@	2000 psig (13.76 MPa)
PTFE	175° F (80° C)	@	2000 psig (13.76 MPa)
Polyimide	350° F (176° C)	@	2000 psig (13.76 MPa)
PEEK™	350° F (176° C)	@	2000 psig (13.76 MPa)

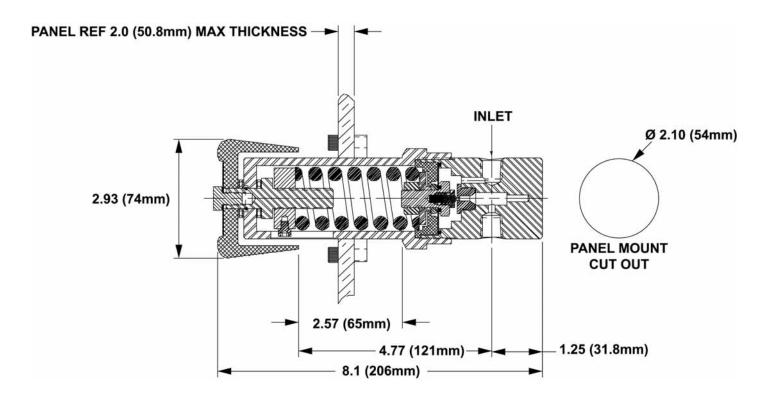
How to Order

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

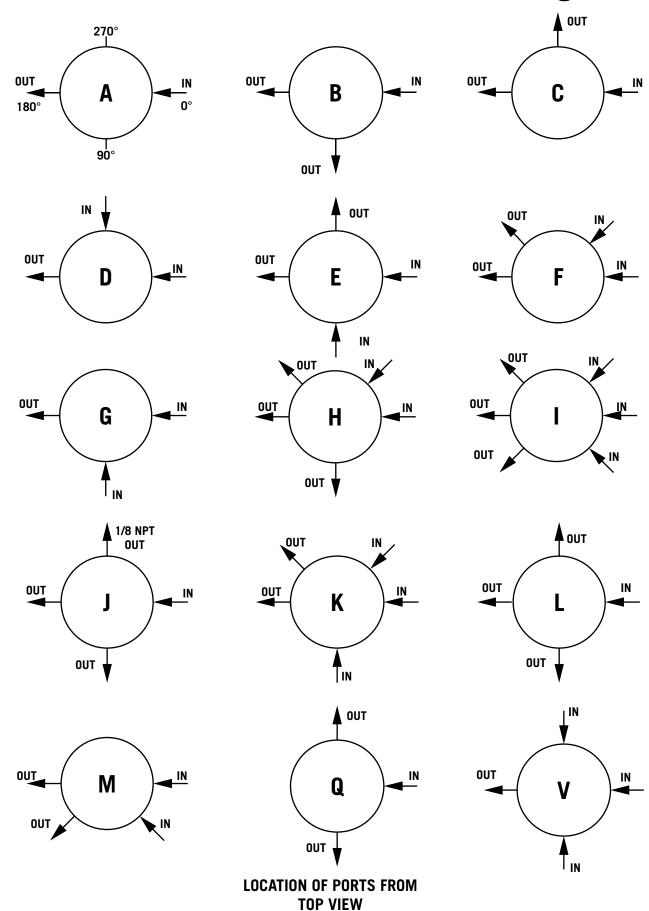


High Pressure Back Pressure Regulators

Outline and Mounting Dimensions



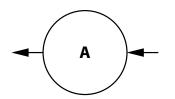
Port Locations (Back Pressure Regulators)

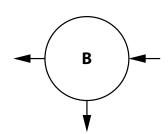


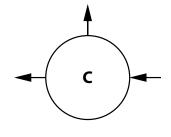
Porting Options for LB-1 Back Pressure Valve

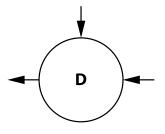
Arrow pointing toward body is inlet, arrow pointing away from body is outlet.

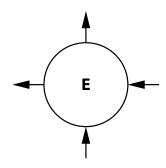
LOCATION OF PORTS FROM TOP VIEW

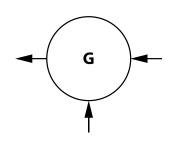


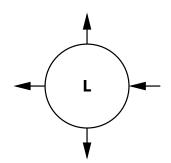


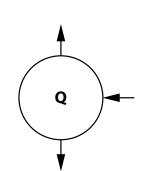


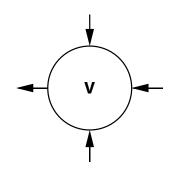






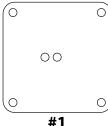






SURFACE MOUNT STYLES

requires "Surface Mount" port type connections



Center port is outlet, all other ports are inlets. Location of ports from bottom view