

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



BP-60 Series High Pressure Back Pressure Regulator

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 Teflon® 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.

Features & Specifications

- Adjustable pressure control ranges of 0–500, 0–1000 and 0–2000 psig
- 316L stainless steel or brass (alloy 360) body construction
- Designed for moderate flow applications with standard C_v flow coefficient of 0.04
- Diaphragm sensing with nylon, Teflon® or stainless steel diaphragm
- Operating temperatures of -40° F (-40° C) to +350° F (+175° C)
- Bubble tight shutoff
- Inlet/outlet connections 1/4" FNPT

Options

- Various orifice sizes available—0.025, 0.005, 0.01
- Panel mounting
- 3/8" FNPT, AN 10050-4, SAE J514 or MS 33649 connections
- Monel and Hastelloy C body construction

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BP-60 Series

High Pressure Back Pressure Regulator

How to Order

See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

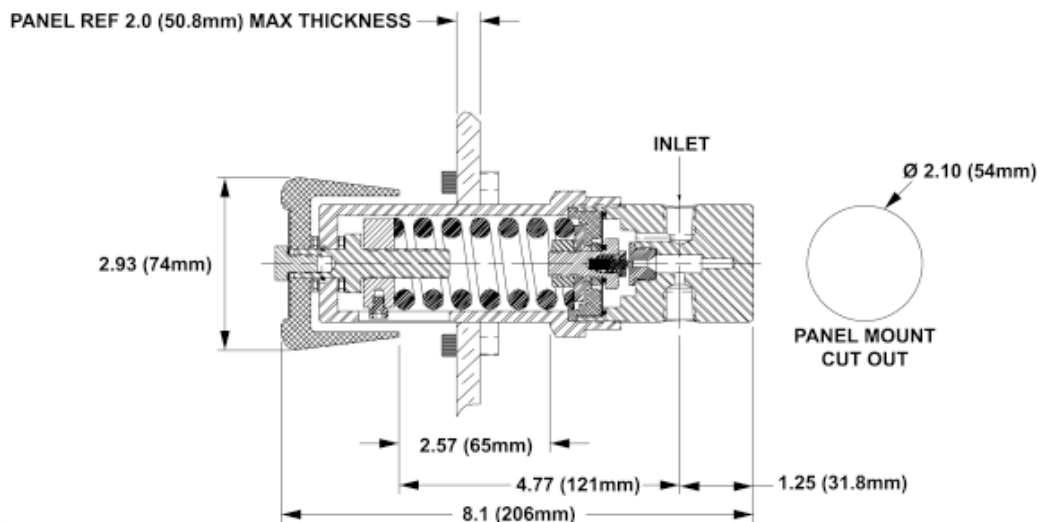
Maximum Temperature and Control Pressures

Nylon Diaphragm Backing			
Seat Material	Maximum Temperature	@	Maximum Control Range
Tefzel®	175° F (80° C)	@	1000 psig (6.89 MPa)
Teflon®	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)

Teflon Diaphragm Backing			
Seat Material	Maximum Temperature	@	Maximum Control Range
Tefzel®	175° F (80° C)	@	2000 psig (13.76 MPa)
Teflon®	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)

Tefzel® and Teflon® are registered trademarks of Dupont.

Outline and Mounting Dimensions



For flow curve charts, go to www.goreg.com/catalog/pr/back/bp60/bp60_flow.htm.

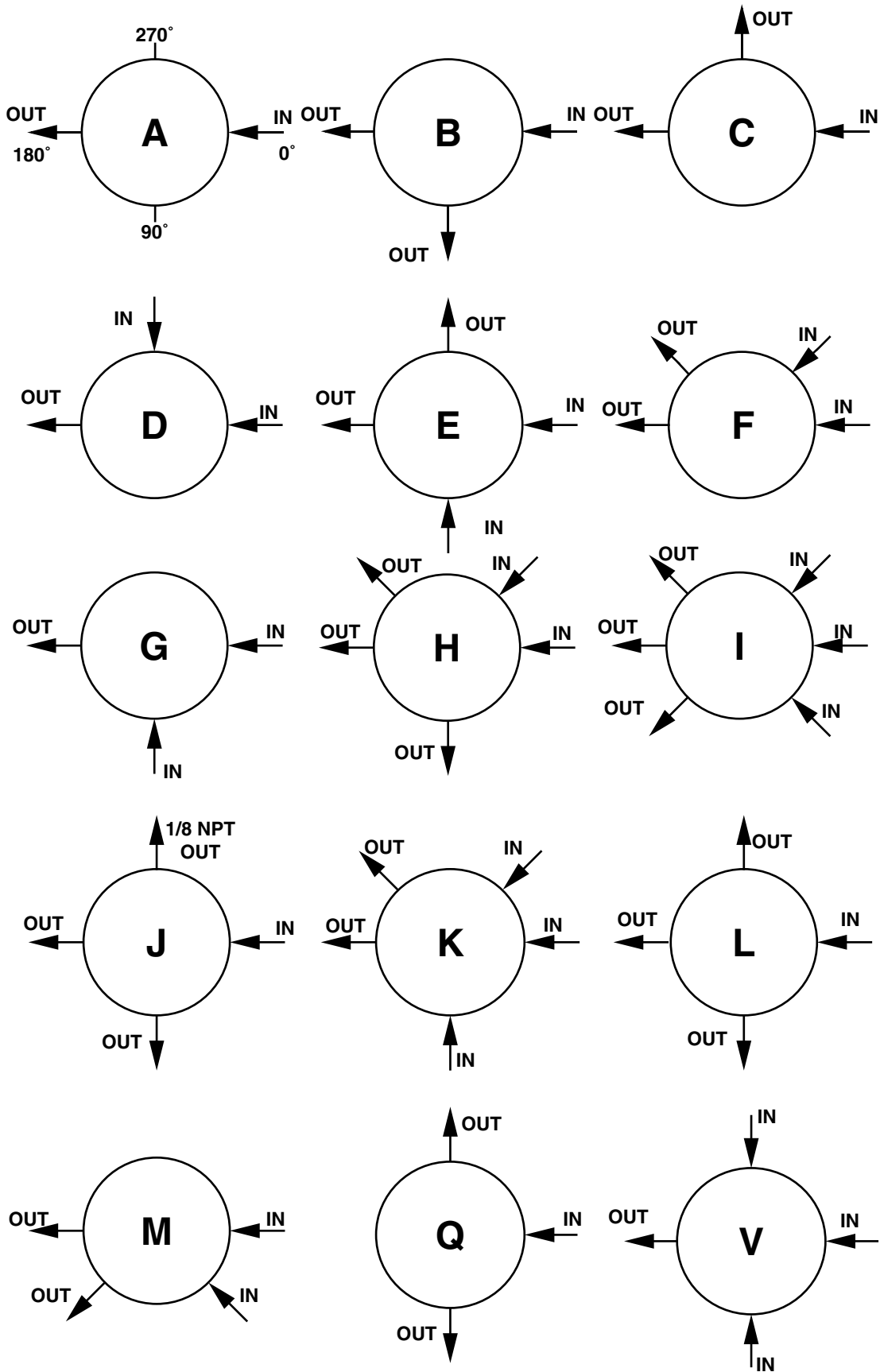
BP-60 Series - Back Pressure Regulator

		Material of Body			
1	SS 316L				
2	Brass				
4	Monel				
6	Hastelloy C				
		Port Configuration (page 28)			
		STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)			
A					
		Process port types (gauge port type, if specified)			
1	1/4" FNPT (1/4" FNPT Gauge Ports)				
2	1/4" Tube (1/4" Tube Gauge Ports)				
4	3/8" FNPT (1/4" FNPT Gauge Ports)				
6	1/2" Tube (1/4" Tube Gauge Ports)				
7	AN 10050-4 (1/4" FNPT Gauge Ports)				
8	SAE J514 (1/4" FNPT Gauge Ports)				
9	M/S 33649 (1/4" FNPT Gauge Ports)				
		Surface Finish of Diaphragm Cavity			
1	<25 Ra				
5	<25 Ra with 10-32 Mounting Holes				
		Actuator Material			
A	Tefzel				
B	CF Teflon				
C	Polyimide				
I	Teflon				
Q	PEEK				
		Flow Coefficient (Cv)			
C	0.025				
E	0.04				
I	0.005				
J	0.01				
		Control Range			
J	0 - 500 Psig				
K	0 - 1000 Psig				
L	0 - 2000 Psig				
		Diaphragm Type			
1	Standard				
		Diaphragm Facing / Backing Material			
		Facing	Backing	O-Rings	Actuator
1		SS	Nylon	Viton	SS
2		None	Nylon	Teflon	SS
7		Inconel	Nylon	Viton	Monel
8		Inconel	Nylon	Teflon	Monel
0		Hastelloy C	Nylon	Teflon	Hastelloy C
A		Hastelloy C	Nylon	Viton	Hastelloy C
Q		SS	Teflon	Teflon	SS
S		SS	Teflon	Teflon/Kalrez	SS (Max 450° F)
T		SS	Teflon	Kalrez	SS (Max 570° F)
V		Inconel	Teflon	Teflon	Monel
W		Hastelloy C	Teflon	Teflon	Hastelloy C
		Cap Assembly			
1	Standard, Aluminum				
4	Panel Mount, Aluminum				
5	Captured Vent, Aluminum				

BP 60 -

Material	Port Config.	Port Style	Cavity Finish	Actuator Material	Flow (Cv)	Control Range	Diaphragm Type	Diaphragm Material	Cap Assembly
1	A						1		1

PORT LOCATIONS (BACK PRESSURE REGULATORS)



LOCATION OF PORTS FROM TOP VIEW