

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



BP-66 Series High Pressure Back Pressure Regulator (10,000 PSIG)

The BP-66 Series is the counterpart of the PR-57 pressure reducing series for systems that are higher in pressure and low to moderate flows. This regulator has piston sensing to provide relief at high pressures. The Polyimide/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-57 companion unit. Good sensitivity and a selection of control ranges make this regulator an excellent selection in many research and pilot plant facilities.

Features & Specifications

- 316L stainless steel construction
- Adjustable pressure control ranges of 0–2000, 0–4000, 0–6000, 0–7500 and 0–10,000 psig
- Spring loaded piston sensor
- Gas and liquid service
- C_v flow coefficient—0.04
- Operating temperature of -40° F (-40° C) to +350° F (+176° C)
- 1/4" FNPT connections standard

Options

- Monel and Titanium body construction
- Different C_v 's—0.01 and 0.12
- Panel mounting
- AN 10050-4, SAE J514, MS 33649, or 3/8" FNPT connections

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BP-66 Series

High Pressure Back Pressure Regulator (10,000 PSIG)

How to Order

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

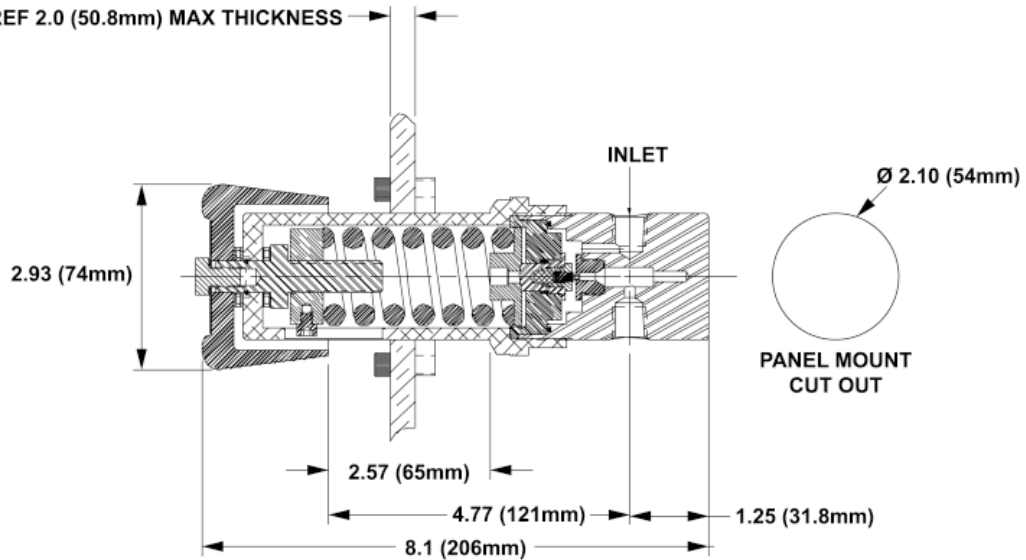
Maximum Temperature and Control Pressures

Seat Material	Maximum Temperature	@	Maximum Control Range
Polyimide	350° F (176° C)	@	10,000 psig (68.8 MPa)
PEEK	350° F (176° C)	@	10,000 psig (68.8 MPa)

Teflon® is a registered trademark of Dupont.

Outline and Mounting Dimensions

PANEL REF 2.0 (50.8mm) MAX THICKNESS



For flow curve charts, go to http://www.goreg.com/catalog/pr/back/bp66/bp66_flow.htm.

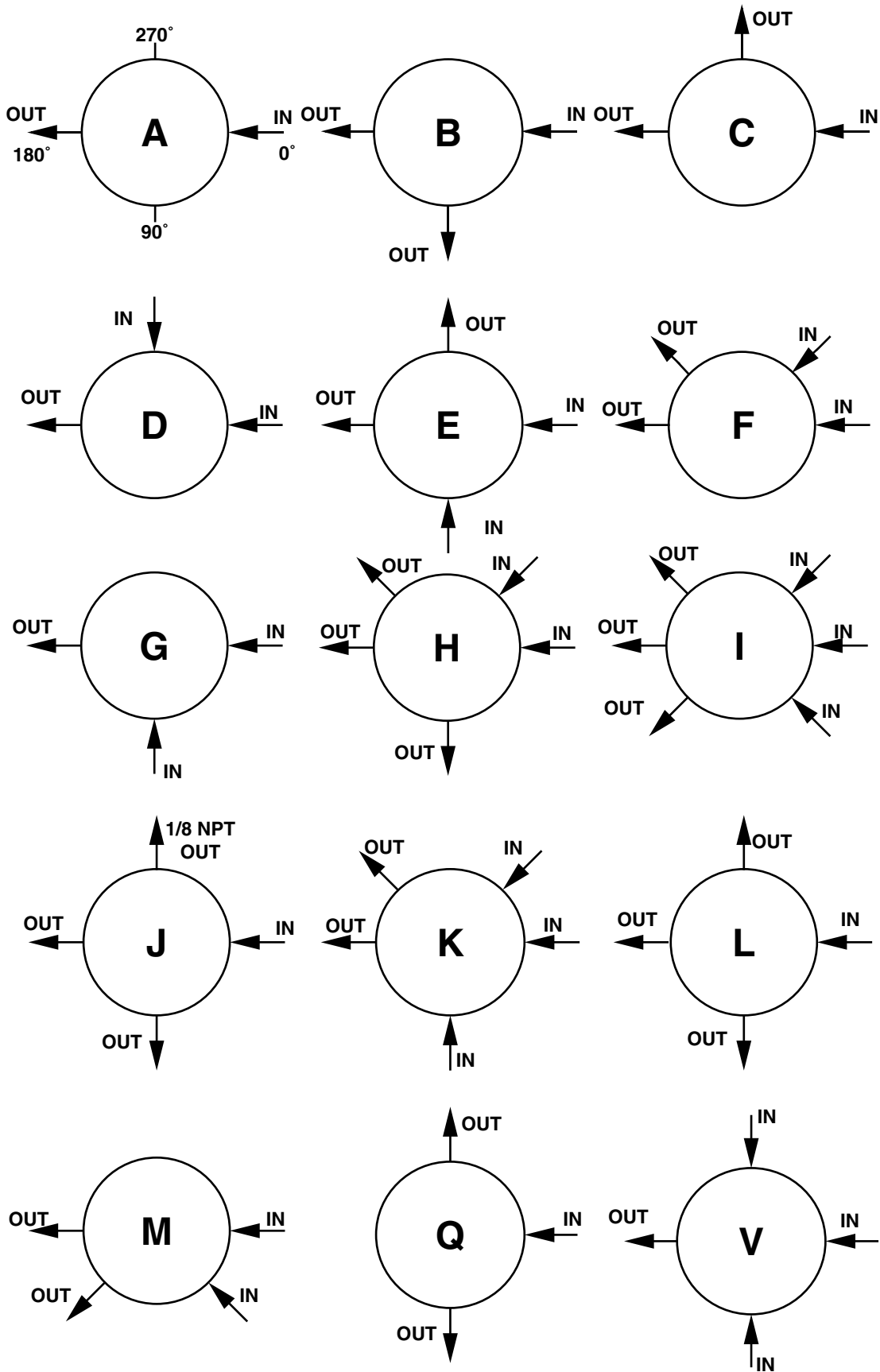
BP-66 Series - Back Pressure Regulator

Material of Body	
1	SS 316L
4	Monel
7	Titanium
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	
C	Polyimide
Q	PEEK
Flow Coefficient (Cv)	
4	0.12
E	0.04
J	0.01
Control Range	
L	0 - 2000 Psig
N	0 - 4000 Psig
O	0 - 6000 Psig
P	0 - 7500 Psig
Q	0 - 10,000 Psig
Piston Type	
1	Standard
Piston Material	
5	Stainless Steel
B	Monel
S	Titanium
Cap Assembly	
1	Standard, Aluminum
4	Panel Mount, Aluminum
5	Captured Vent, Aluminum
6	Captured Vent, Panel Mount, Aluminum
7	Captured Vent, S.S.
F	S.S.

BP 66 -

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

PORT LOCATIONS (BACK PRESSURE REGULATORS)



LOCATION OF PORTS FROM TOP VIEW