

## BP-66 Series

High Pressure Back Pressure Regulators (10,000 psig)

### Introduction

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.



pressure regulators

### Typical Applications

- Pilot plants
- Research labs

### Technical Data

<b>CONSTRUCTION</b>	316L stainless steel (standard) MONEL® and titanium (optional)
<b>ADJUSTABLE PRESSURE CONTROL RANGES</b>	0–2000, 0–4000, 0–6000, 0–7500 and 0–10,000 psig
<b>OPERATING TEMPERATURE</b>	–40° F to +350° F (–40° C to +177° C)
<b>C<sub>v</sub> COEFFICIENT</b>	0.04 (standard) 0.01, 0.12 and 0.005 (optional)
<b>INLET/OUTLET CONNECTIONS</b>	¼" FNPT (standard) ⅜" FNPT (optional)

### Features & Benefits

- Spring-loaded piston sensor
- Gas and liquid service
- Viton® seals (other elastomers optional)

### Options:

- Panel mounting
- MONEL® and Titanium body construction
- Cv of 0.01, 0.12 or 0.005
- ⅜" FNPT connections

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## Maximum Temperature and Control Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE	@	MAXIMUM CONTROL RANGE
Polyimide	350° F (177° C)	@	10,000 psig (68.8 MPa)
PEEK™	350° F (177° C)	@	10,000 psig (68.8 MPa)

To Order, contact your local Distributor Link below:

[www.goreg.com/distributor/index.htm](http://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](http://www.goreg.com/products/matrix/index.htm)

## How to Order

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

**BP66 – 1 A 1 1 C E N 1 5 1 A**

### Body Material

- 1** 316L stainless steel
- 4 MONEL®
- 7 Titanium

### 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)

### Cavity Finish

- 1** < 25 Ra
- 5 < 25 Ra with 10-32 mounting holes

### Actuator Material

- C** Polyimide
- Q** PEEK™

### Options

- B** EB5 cleaning
- D** Helium leak test
- E** Pressure test certificate
- F** Certificate of Conformity
- G** CMTR

### Cap Assembly

- 1** Standard, aluminum
- 4 Panel mount, aluminum
- 5 Captured vent, aluminum
- 6 Captured vent, panel mount, aluminum
- 7 Captured vent, stainless steel
- F** Stainless steel

### Piston Material

- 5** Stainless steel with standard Viton® cavity O-ring
- 6 Stainless steel with optional PTFE cavity O-ring
- B** MONEL®
- S** Titanium

### Piston Type

- 1** Standard

### Control Range

- L** 0–2000 psig
- N** 0–4000 psig
- O** 0–6000 psig
- P** 0–7500 psig
- Q** 0–10,000 psig

### Flow Coefficient (C<sub>v</sub>)

- 4 0.12
- E** 0.04
- I 0.005
- J 0.01

NOTE: Contact the factory for any additional requirements.

For flow curve charts, visit [www.goreg.com](http://www.goreg.com).

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## Outline and Mounting Dimensions

