

## 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

CONSTRUCTION	316L stainless steel (standard) Monel® and titanium (optional)
ADJUSTABLE PRESSURE CONTROL RANGES	0–2000, 0–4000, 0–6000, 0–7500 and 0–10,000 psig
OPERATING TEMPERATURE	–40° F to +350° F (–40° C to +177° C)
C <sub>v</sub> COEFFICIENT	0.04 (standard) 0.01 and 0.12 (optional)
INLET/OUTLET CONNECTIONS	¼" FNPT (standard) AN 10050-4, SAE J514, MS 33649, or 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
- C<sub>v</sub> of 0.01 or 0.12
- AN 10050-4, SAE J514, MS 33649 or 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 Wizard at:  
[www.goreg.com/products/main/index.htm](http://www.goreg.com/products/main/index.htm)

## How to Order

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

### BP66-1A11CEN151A

#### 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 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)
- 6 1/2" Tube stub, 2" long (1/4" FNPT 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)

#### Cavity Finish

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

#### Actuator Material

- C Polyimide**
- Q PEEK™

#### 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, 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**
- J 0.01**

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](http://www.goreg.com) or contact the factory.

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## Outline and Mounting Dimensions

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Weight = 4.4 lbs (2.0 kg)

