

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_v 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
- Cv 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

Verify that your chosen part number is valid using the GO Wizards at
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)**
- 2 ¼" Tube stub, 2" long
(¼" FNPT gauge ports)
- 4 ⅜" FNPT (¼" FNPT gauge ports)
- 6 ½" Tube stub, 2" long
(¼" FNPT gauge ports)
- 7 AN 10050-4 (¼" FNPT gauge ports)
- 8 SAE J514 (¼" FNPT gauge ports)
- 9 M/S 33649 (¼" 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
- 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_v)

- 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 or contact the factory.

For flow curve charts, visit <http://www.goreg.com>.

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Outline and Mounting Dimensions

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Weight = 4.4 lbs (2.0 kg)

