GO REGULATOR

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
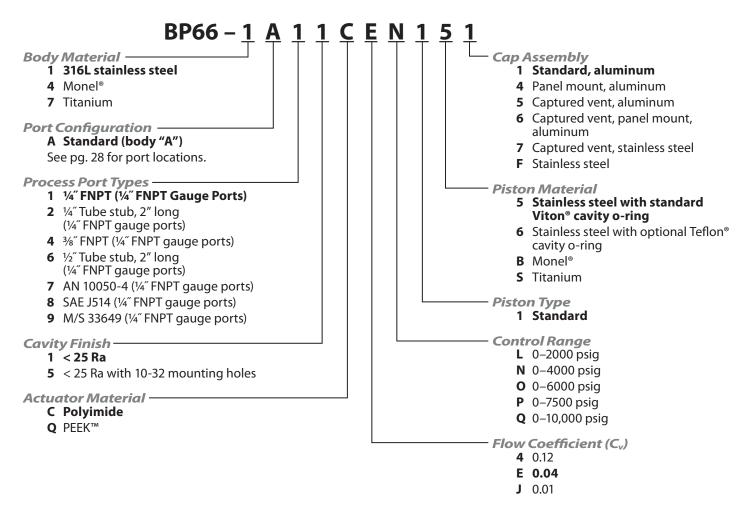- AN 10050-4, SAE J514, MS 33649 or ⅜" FNPT connections

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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)

How to Order

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

BP66 – 1 A 1 1 C E N 1 5 1

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™

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 Teflon® 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

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

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Outline and Mounting Dimensions

PANEL REF 2.0 (50.8mm) MAX THICKNESS

INLET

Ø 2.10 (54mm)

PANEL MOUNT
CUT OUT

2.93 (74mm)

2.57 (65mm)

4.77 (121mm)

1.25 (31.8mm)

8.1 (206mm)