

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.



#### **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, 0.12 and 0.005 (optional)		
INLET/OUTLET Connections	¼" FNPT (standard) ¾" FNPT (optional)		

#### Features & Benefits

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

#### **Options:**

- Panel mounting
- MONEL<sup>®</sup> and Titanium body construction
- Cv of 0.01, 0.12 or 0.005
- ¾" 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: Verify that your chosen part number is valid using the GO Wizards at www.goreg.com/distributor/index.htm www.goreg.com/products/matrix/index.htm How to Order For additional configurations, consult the factory. Standard items in bold. **BP66** – 1 C Α 1 1 Ε Ν 5 1 Body Material -**Options** 1 316L stainless steel В EB5 cleaning Helium leak test D 4 MONEL® Pressure test certificate Certificate of Conformity Ε 7 Titanium F G CMTR Port Configuration -A Standard (body "A") Cap Assembly See pg. 28 for port locations. 1 Standard, aluminum **4** Panel mount, aluminum Process Port Types-**5** Captured vent, aluminum 1 1/4" FNPT (1/4" FNPT Gauge Ports) 6 Captured vent, panel mount, 4 <sup>3</sup>/<sub>8</sub>" FNPT (<sup>1</sup>/<sub>4</sub>" FNPT gauge ports) aluminum Cavity Finish -7 Captured vent, stainless steel 1 < 25 Ra F Stainless steel 5 < 25 Ra with 10-32 mounting holes **Piston Material** 5 Stainless steel with standard Actuator Material -**C** Polyimide Viton<sup>®</sup> cavity 0-ring Q PEEK™ 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 **0** 0–6000 psig **P** 0–7500 psig NOTE: Contact the factory for any additional requirements. **Q** 0–10,000 psig Flow Coefficient (C<sub>v</sub>) **4** 0.12 E 0.04 **I** 0.005 J 0.01

For flow curve charts, visit www.goreg.com.