

BPR50 Series

High Pressure, Back Pressure Regulator
Gas and Liquid Service, Stainless Steel



Value Proposition:

The BPR50 is a piston style back pressure regulator designed to control upstream or back pressure with corrosive media and environments.

The materials of construction in this regulator make it suitable for use where high pressure corrosive and noncorrosive liquids and gasses at pressures up to 2,000 psig.



Contact Information:

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Product Features:

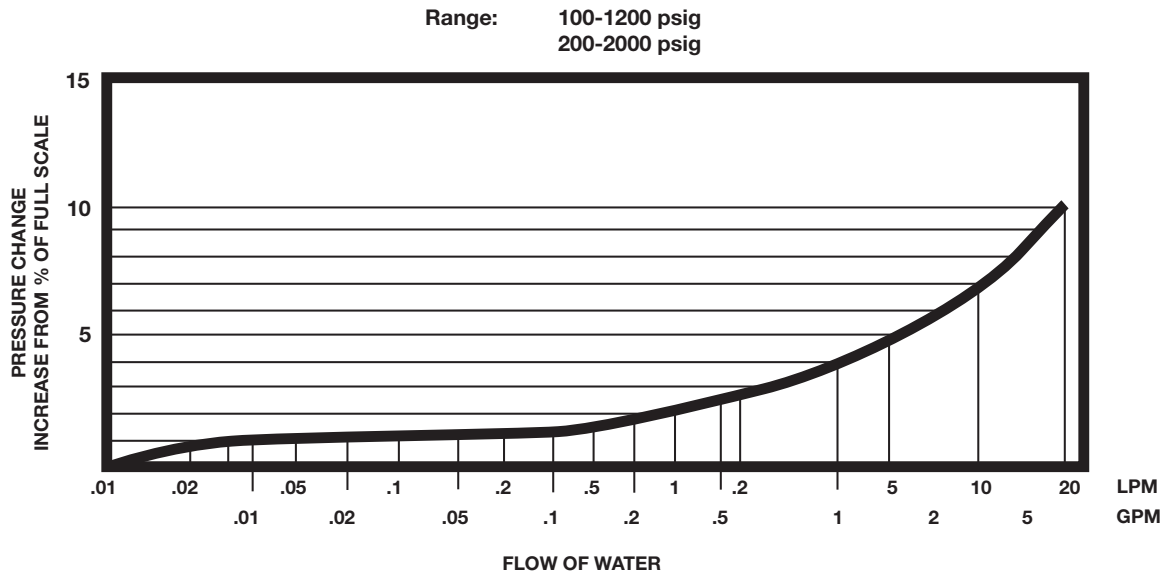
- 316L Stainless Steel construction
- Cleaned for O₂ service is standard
- Gas or Liquid Service
- Simple construction makes maintenance easy
- Panel mount option is available
- Adjustable pressures from 100 to 1,200 psig and 200 to 2,000 psig
- Flow Coefficient of 0.45 C_v



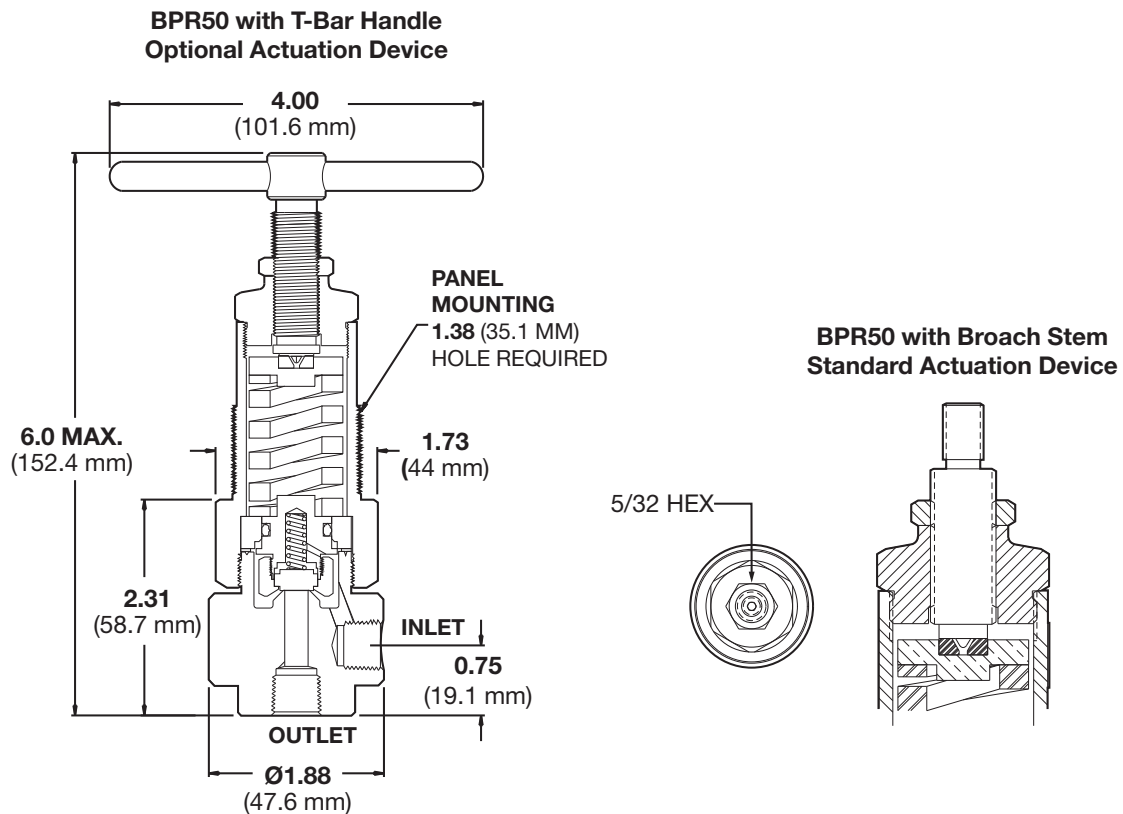
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BPR50 Series

Flow Curve



Dimensional Drawing



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Ordering Information

Build a BPR50 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations
Green Italic = Express Service Program (ESP)

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

Sample: **BPR50** **1** **2** **3** **4** **5**
Finished Order: **BPR50S3PB1BHPM**

1 **Body Material**
S = 316L Stainless Steel

2 **Porting**
2PB = 2 Ports *Outlet through bottom*
3BP = 3 Ports
3PB = 3 Ports *Outlet through bottom*

3 **Adjustment Range**
1 = 100 - 1200 psig
2 = 200 - 2000 psig

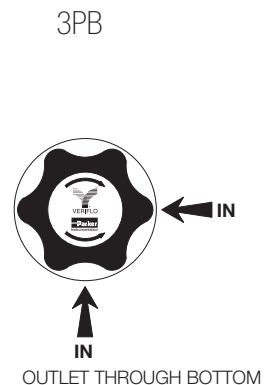
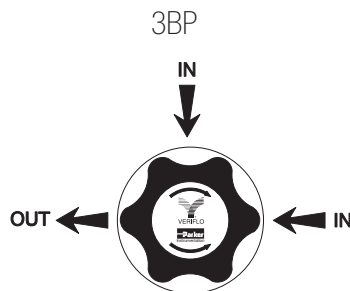
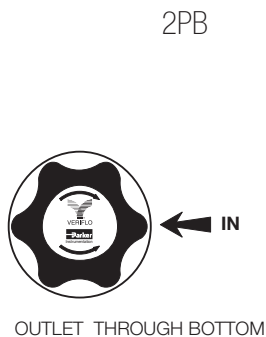
4 **Actuation Devices**
BH = T Bar Handle
Omit = Broach Stem *Standard*

5 **Optional Features**
This section can have multiple options
K = Perfluoroelastomer (FFKM)
O-ring with PCTFE Seal
PM = Panel Mount

Additional configurations available upon request

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

Porting Configurations



BPR50 Series

Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel
Seal Options	Glass filled PTFE (std) or PCTFE
Seal Holder	316L Stainless Steel
O-ring Options	FKM (std) or FFKM
Piston	316L Stainless Steel
Gasket	PCTFE
Spring	316L Stainless Steel
Non-wetted	
Cap	Nickel Plated Brass
Broach Stem	316L Stainless Steel
T Bar Handle	Nickel Plated Brass
Operating Conditions	
Control Pressure	100 - 1,200 psig (7 - 83 barg) 200 - 2,000 psig (14 - 138 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Functional Performance	
Design	
Burst Pressure	6,000 psig (414 barg)
Proof Pressure	3,000 psig (207 barg)
Flow Capacity	C _v 0.45
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Maximum Liquid Flow	20 lpm (5 gpm)
Hysteresis	20 psig (1.4 barg)
Sensitivity	0.5 psig (0.03 barg)
Internal Volume	5 cc
Approx. Weight	2.2 lbs. (1.0 kgm)

For additional information on materials of construction, functional performance and operating conditions, see Regulator Technical Bulletin.

OFFER OF SALE:

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