

BPR50 Series

High Pressure, Back Pressure Regulator

Gas and Liquid Service • Stainless Steel



Value Proposition:

Capable of withstanding corrosive media and environments, Parker's BPR50 piston-style back pressure regulator controls upstream or back pressure. Suitable for corrosive and non-corrosive liquids and gases at pressures up to 2,000 psig.

Product Features:

- 316L Stainless Steel construction
- Gas or liquid service
- Simple construction makes maintenance easy
- Panel mount option is available
- Adjustable pressures from 100-1,200 psig and 200-2,000 psig
- Flow coefficient of 0.45 C_v

Specifications:

Functional Performance	
Design	
Burst Pressure	6,000 psig (414 barg)
Proof Pressure	3,000 psig (207 barg)
Flow Capacity	
C_v	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
Approximate Weight	2.2 lbs. (1.0kg)

Operating Conditions	
Control Pressure	100-1,000 psig (7-83 barg) 200-2,000 psig (14-138 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Material of Construction	
Wetted	
Body Options	316L Stainless Steel
Seat Options	Glass Filled PTFE 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

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

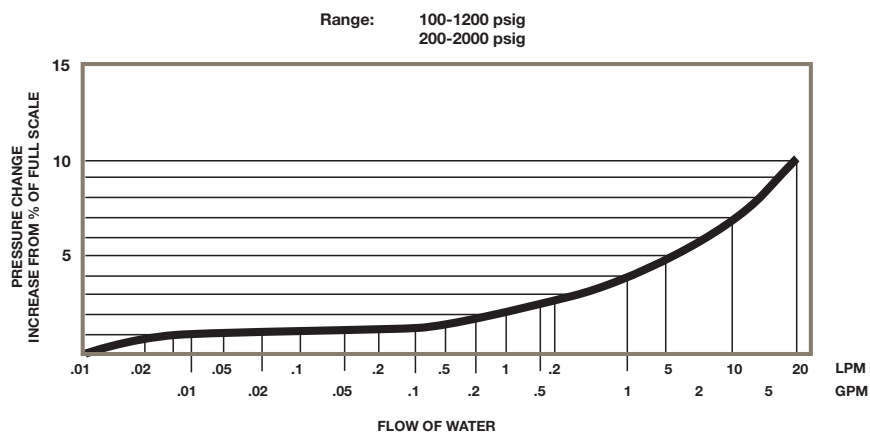


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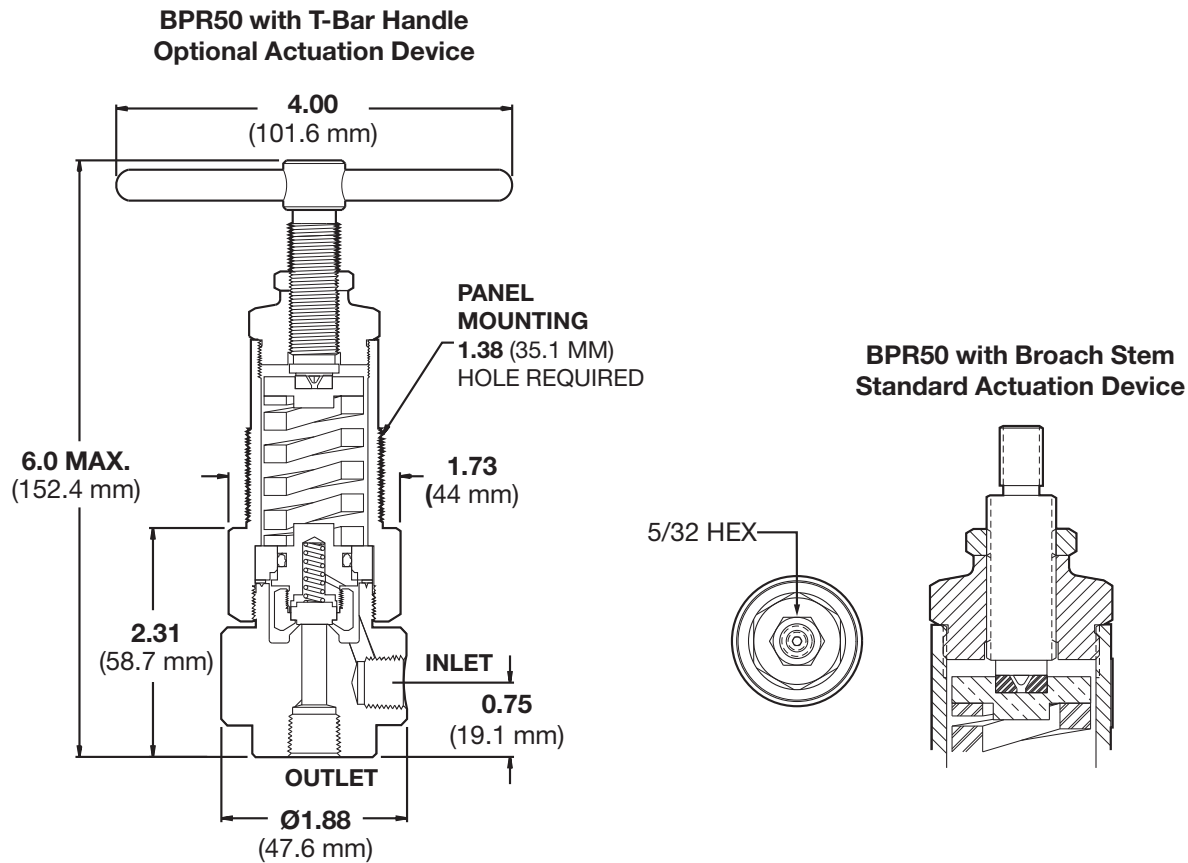
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Flow Curve:



Dimensional Drawing:



BPR50 Series

Ordering Information:

Building a Part Number: <i>Example: BPR50S3PB1BHPM</i>						
Example Part Number:	BPR50	S	3PB	1	BH	PM
Ordering Parameters/Options:	Regulator	Body Material	Porting	Adjustment Range	Actuation Device	Optional Features
Table Reference: (see below)	A	B	C	D	E	F

A - Regulator	
BPR50	BPR50 Series Regulator

B - Body Material	
S	316L Stainless Steel

C - Porting	
2PB	2 Ports (Outlet through bottom)
3BP	3 Ports
3PB	3 Ports (Outlet through bottom)

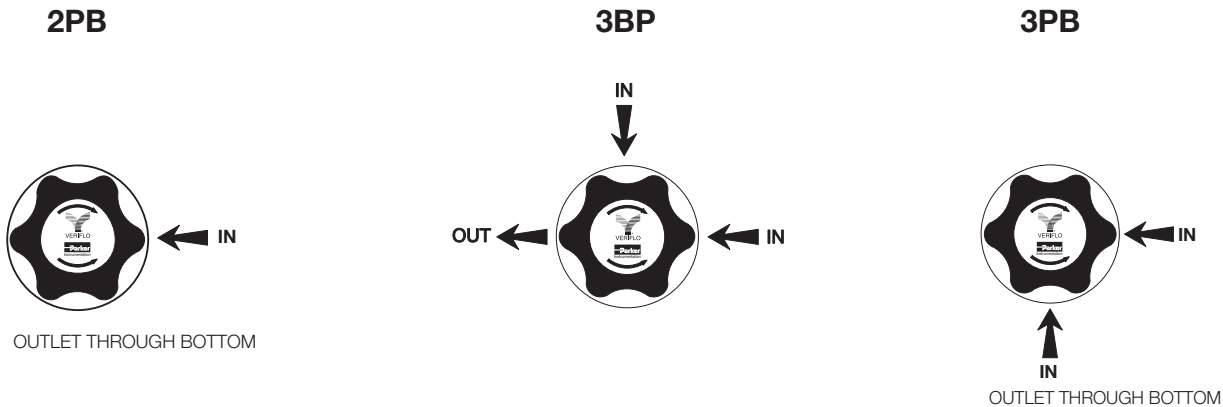
D - Adjustment Range	
1	100-1,200 psig
2	200-2,000 psig

E - Actuation Device	
BH	T Bar Handle
	Broach Stem (std)

F - Optional Features (This section can have multiple options)	
K	Perfluoroelastomer (FFKM) O-ring with PCTFE Seal
PM	Panel Mount
C3	Cleaned for Oxygen Service <small>(Oxygen cleaning requirements are in accordance with Parker Specification ES8003)</small>

Parker Instrumentation Products Division reserves the right to plug NPT ports

Porting Configurations:



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WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

Offer of Sale

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BPR50 SERIES: High Pressure, Back Pressure Regulator



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