## **ABP1 Series**

Back Pressure Regulator Stainless Steel



### Value Proposition:

The ABP1 is a versatile design for the control of inlet, upstream or back pressure in an instrument or analyzer system.

The materials of construction for this regulator make it suitable for applications where corrosive media and/or environments are present.



### **Contact Information:**

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www.parker.com/veriflo Mobile App: m.parker.com/veriflo

#### **Product Features:**

- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance
- Cleaned for O<sub>2</sub> service is standard
- Convoluted diaphragm provides outlet pressure stability with changes in flow
- Integral diaphragm stop provides an additional safety measure
- Express Service Program is available and noted in *green italic print*

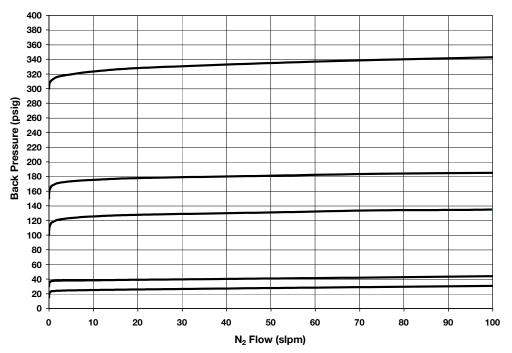


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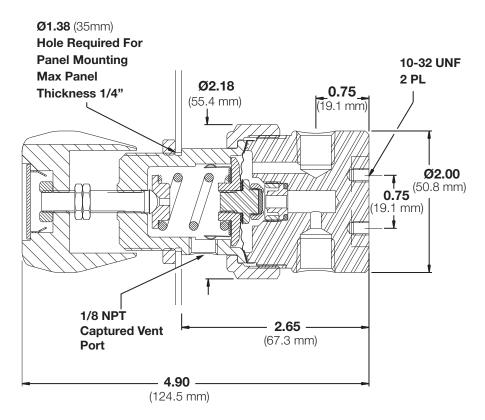
# ABP1 Series

Flow Curve

ABP1 0.3 Cv



### **Dimensional Drawing**

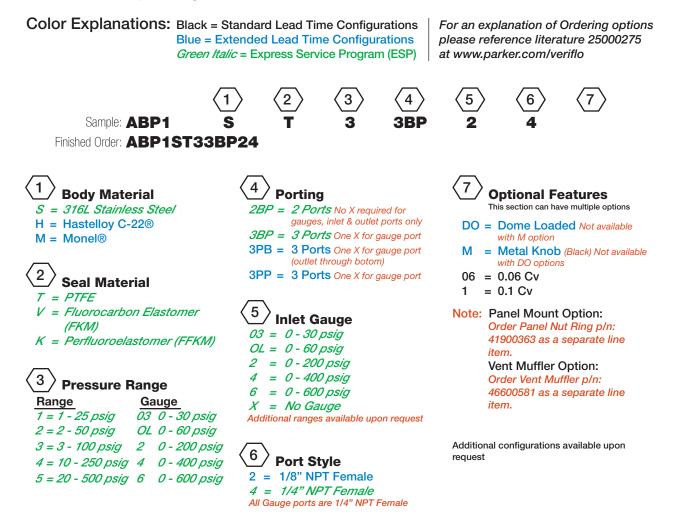


Safety Guide and Installation and Operating Instructions available at www.parker.com/veriflo

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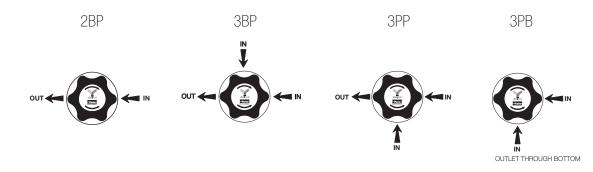
#### Ordering Information

Build an ABP1 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.



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

### Porting Configurations



## **ABP1 Series** Specifications

#### Materials of Construction Wetted

Body Options	316L Stainless Steel (std), Monel® or Hastelloy C-22®
Diaphragm	Hastelloy C-22®
Diaphragm Assembly Options	316L Stainless Steel & PTFE (std) or Hastelloy C-22® & PTFE
Seal Options	PTFE (std), FKM or FFKM
Seat O-ring	PTFE
Seat & Holder Options	316L Stainless Steel (std) or Hastelloy C-22®
Outboard Gasket	PTFE
Screen Options	316L Stainless Steel (std) or Hastelloy C-22®
Non-wetted	
Сар	303 Stainless Steel
Cap Nut	316L Stainless Steel
Knob Options	ABS (std) or Aluminum

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

Functional Performance	
Design	
Burst Pressure	1,500 psig (103 barg)
Proof Pressure	750 psig (52 barg)
Flow Capacity	
C <sub>V</sub> Options	C <sub>V</sub> 0.3 (std), C <sub>V</sub> 0.1, C <sub>V</sub> 0.06
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	5.9 cc
Approx. Weight	2.3 lbs. (1.0 kgm)
Operating Conditions	
Control Pressure	1 - 25 psig (2 barg) 2 - 50 psig (3.5 barg) 3 - 100 psig (7 barg) 10 - 250 psig (17 barg) 20 - 500 psig (35 barg)
Max. Temperature of Flow Media	-15°F to 400°F (-26°C to 204°C) Note: Metal Knob required for high temperature applications

Hastelloy C-22® is a registered trademark of Haynes International, Inc. Monel® is a registered trademark of Special Metals Corporation

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