

ABP3 Series

Back Pressure Regulator
High Sensitivity, Stainless Steel



Value Proposition:

The ABP3 is a versatile design for precise control of inlet, upstream or back pressure.

The large convoluted diaphragm provides greater sensitivity of outlet pressures.

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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Product Features:

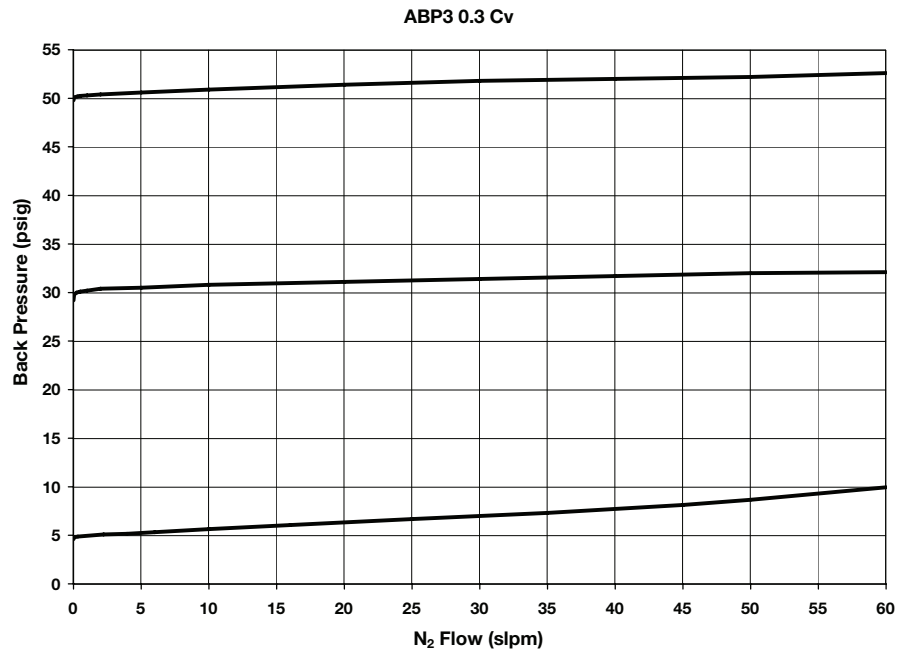
- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance
- Integral diaphragm stop provides an additional safety measure
- Cleaned for O2 service is standard
- Convoluted diaphragm provides outlet pressure stability with changes in flow
- Express Service Program is available and noted in *green italic print*



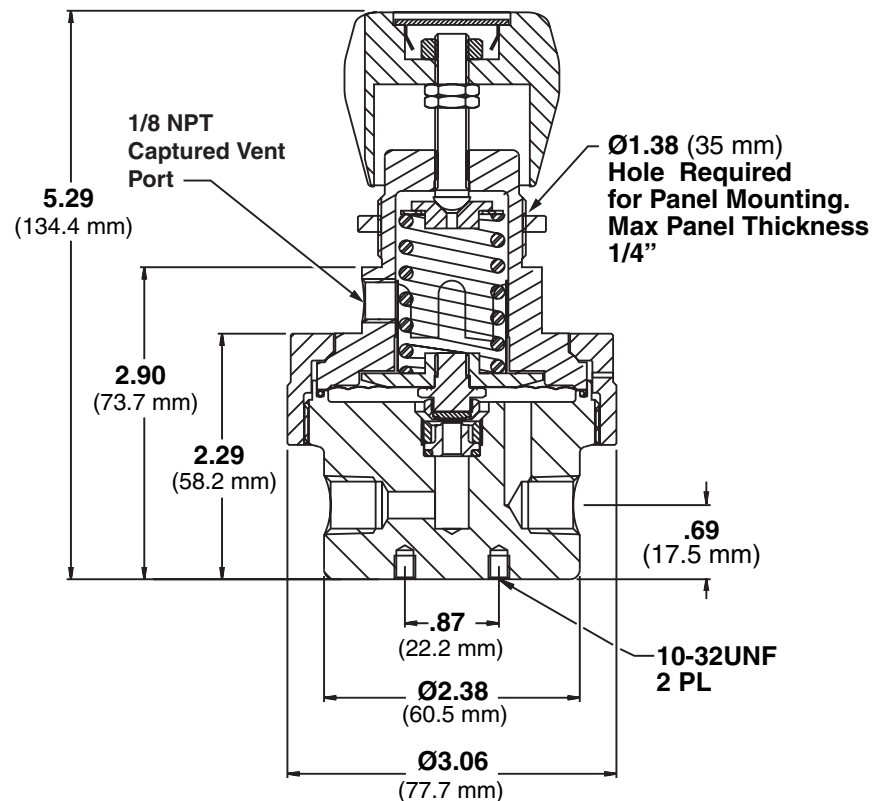
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Flow Curve



Dimensional Drawing



ABP3 Series

Ordering Information

Build an ABP3 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: **ABP3** **S** **T** **3** **3BP** **01** **4**

Finished Order: **ABP3ST33BP014**

1 Body Material
S = 316L Stainless Steel
H = Hastelloy C-22®

2 Seal Material
T = PTFE
V = Fluorocarbon Elastomer (FKM)
K = Perfluoroelastomer (FFKM)

3 Pressure Range

Range	Gauge
<i>1 = 1 - 5 psig</i>	<i>05 0 - 15 psig</i>
<i>2 = 1 - 30 psig</i>	<i>OL 0 - 60 psig</i>
<i>3 = 2 - 60 psig</i>	<i>01 0 - 100 psig</i>

4 Porting
2BP = 2 Ports No X required for gauges, inlet & outlet ports only
3BP = 3 Ports One X for gauge port
3PP = 3 Ports One X for gauge port

5 Inlet Gauge
05 = 0 - 15 psig
OL = 0 - 60 psig
01 = 0 - 100 psig
X = No Gauge
Additional ranges available upon request

6 Port Style
2 = 1/8" NPT Female
4 = 1/4" NPT Female
All Gauge ports are 1/4" NPT Female

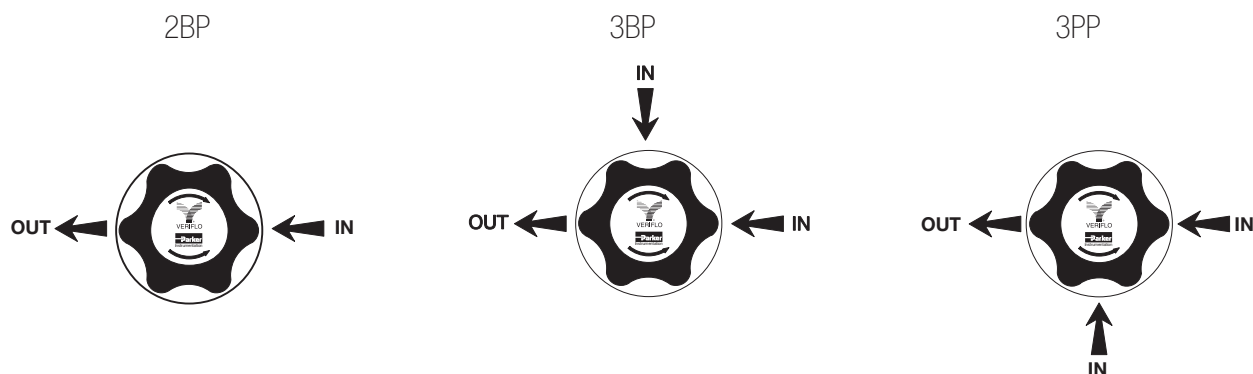
7 Optional Features
This section can have multiple options
DO = Dome Loaded Not available with M options
M = Metal Knob (Black) Not available with DO option, required for higher temperatures
06 = 0.06 Cv
1 = 0.1 Cv

Note: Panel Mount Option:
Order Panel Nut Ring p/n: 41900363 as a separate line item.
Vent Muffler Option:
Order Vent Muffler p/n: 46600581 as a separate line item.

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



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Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel (std) or Hastelloy C-22®
Diaphragm	Hastelloy C-22®
Diaphragm Assembly Options	316L Stainless Steel & PTFE (std) or Hastelloy C22® & PTFE
Seat O-ring	PTFE
Seat & Holder Options	316L Stainless Steel (std) or Hastelloy C-22®
Seal Options	PTFE (std), FKM or FFKM
Screen Options	316L Stainless Steel (std) or Hastelloy C-22®
Outboard O-ring Options	PTFE (with PTFE or FFKM seats) FKM (with FKM seat)
Non-wetted	
Cap	Nickel Plated Brass
Cap Nut	Nickel Plated Brass
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	180 psig (12.4 barg)
Proof Pressure	90 psig (6 barg)
Flow Capacity	
C _v Options	C _v 0.3 (std), C _v 0.1, C _v 0.06
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Internal Volume	13.8 cc
Approx. Weight	4.2 lbs. (1.9 kgm)
Operating Conditions	
Control Pressure	1 - 5 psig (0.07 - 0.3 barg) 1 - 30 psig (0.07 - 2.06 barg) 2 - 60 psig (0.2 - 4.1 barg)
Max. Temperature of Flow Media	-15°F to 400°F (-26°C to 204°C) <i>Note: Metal Knob required for high temperature applications</i>

Hastelloy C-22® is a registered trademark of Haynes International, Inc.

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