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TECHNOLOGY GROUP

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Find the *Parker / Veriflo ABP1ST42BP41* at our website: *Click HERE*

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_2 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*

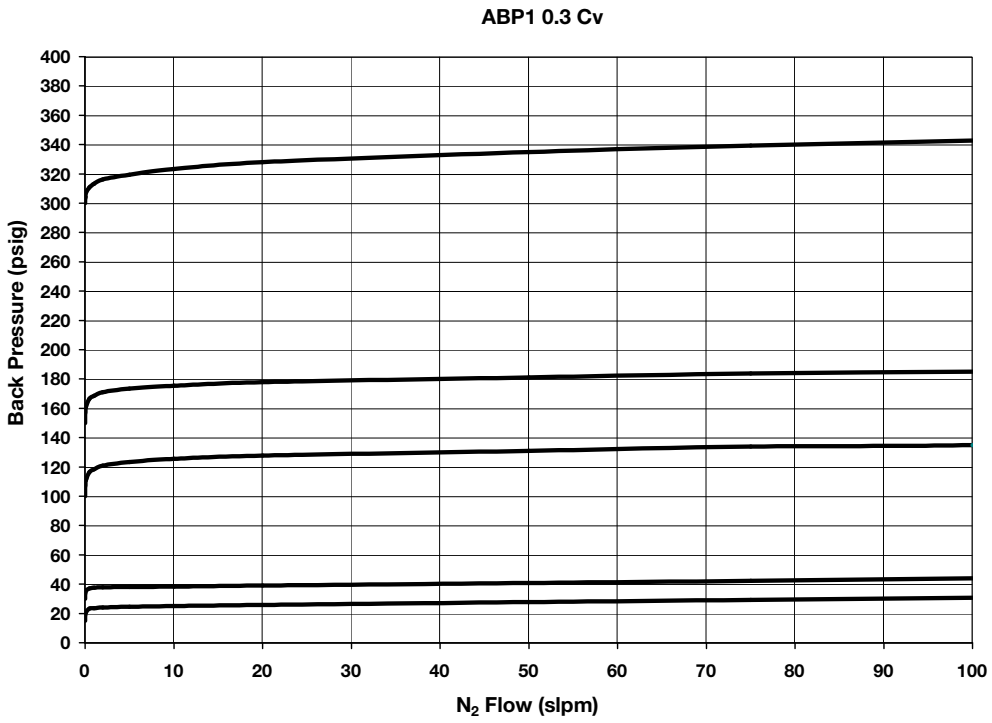
Parker Veriflo

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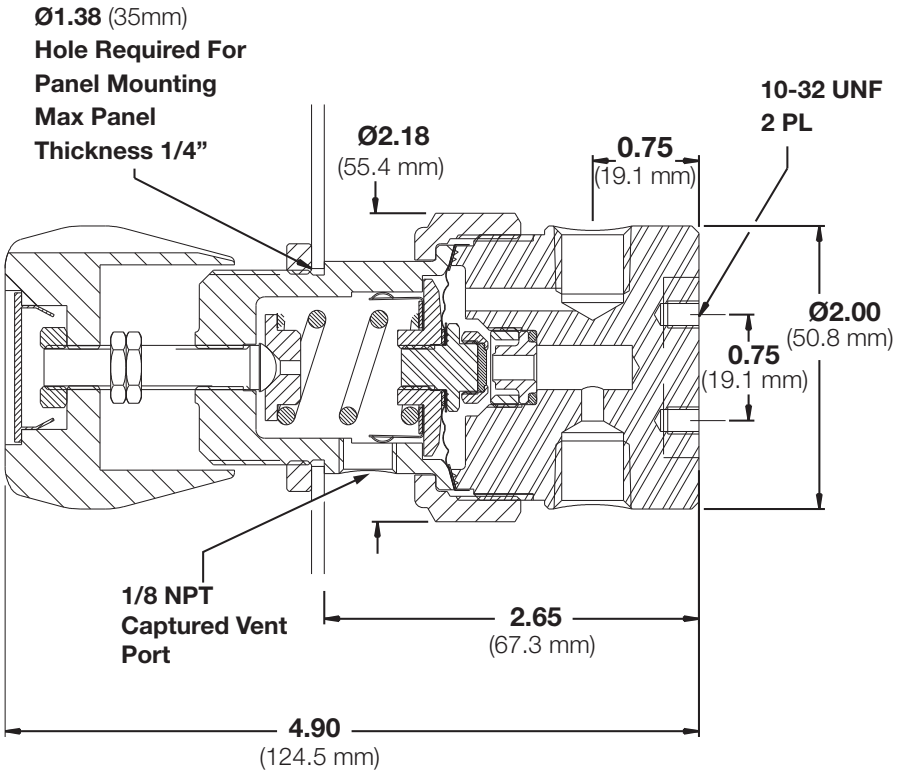
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ABP1 Series

Flow Curve



Dimensional Drawing



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

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ABP1 Series

Ordering Information

Build an ABP1 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

	1	2	3	4	5	6	7
Sample: **ABP1**	**S**	**T**	**3**	**3BP**	**2**	**4**	
Finished Order: **ABP1ST33BP24**							

1 Body Material

S = 316L Stainless Steel
H = Hastelloy C-22®
M = Monel®

2 Seal Material

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

3 Pressure Range

Range	Gauge
1 = 1 - 25 psig	*03 0 - 30 psig*
2 = 2 - 50 psig	*OL 0 - 60 psig*
3 = 3 - 100 psig	*2 0 - 200 psig*
4 = 10 - 250 psig	*4 0 - 400 psig*
5 = 20 - 500 psig	*6 0 - 600 psig*

4 Porting

2BP = 2 Ports No X required for gauges, inlet & outlet ports only
3BP = 3 Ports One X for gauge port
3PB = 3 Ports *One X for gauge port (outlet through botom)*
3PP = 3 Ports *One X for gauge port*

5 Inlet Gauge

03 = 0 - 30 psig
OL = 0 - 60 psig
2 = 0 - 200 psig
4 = 0 - 400 psig
6 = 0 - 600 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

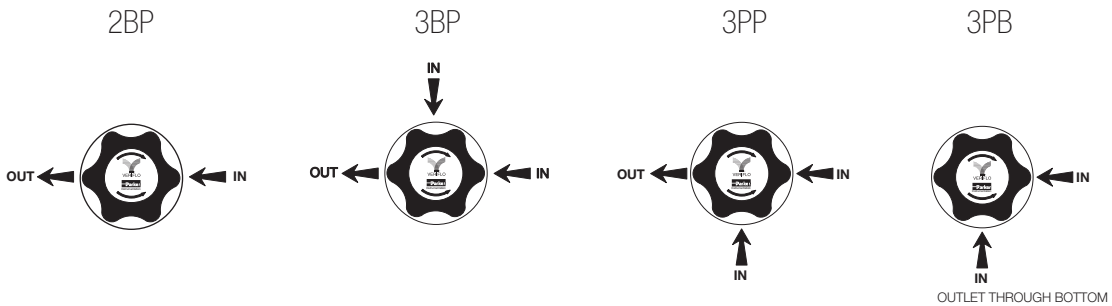
DO = Dome Loaded *Not available with M option*
M = Metal Knob *(Black) Not available with DO options*
06 = 0.06 Cv
1 = 0.1 Cv

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



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	
Cap	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_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	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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