ABP3 Series

Back Pressure Regulator



Customer Value Proposition:

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

The large convoluted diaphragm provides the user greater sensitivity of outlet pressures.

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



Contact Information:

Parker Hannifin Corporation **Veriflo Division** 250 Canal Blvd Richmond, California 94804

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www.parker.com/veriflo

Product Features:

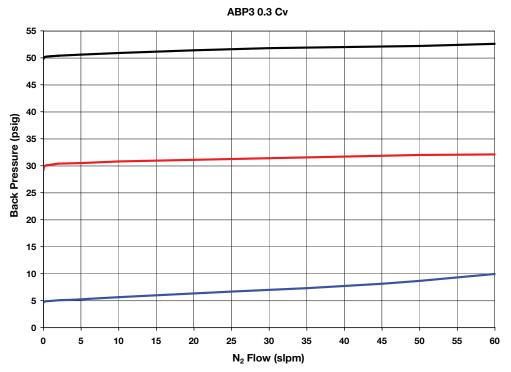
- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance.
- Cleaned for O₂ service is standard.
- Convoluted diaphragm provides outlet pressure stability with changes in flow.
- Integral diaphragm stop provides an additional safety measure.
- Express Service Program is available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



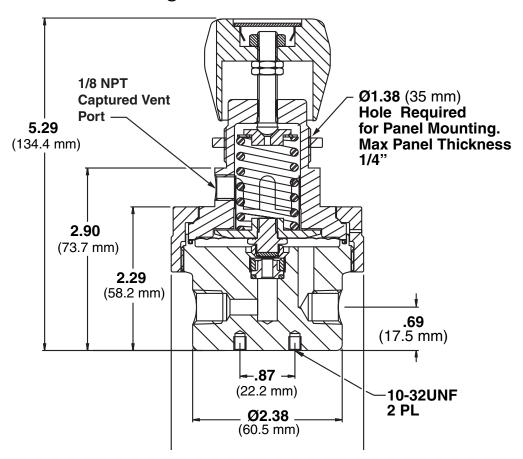
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ABP3

Flow Curves



Dimensional Drawing



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

ABP3

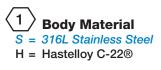
Ordering Information

Build an ABP3 Regulator by replacing the numbered symbols with an option from the corresponding tables below.

Note: Options in blue/Italic type are available for the Express Service Program.

Sample: **ABP3** S T 3 3BP 01 4

Finished Order: **ABP3ST33BP014**





V = Fluorocarbon Elastomer (FKM)

K = Perfluoroelastomer (FFKM)

3 Pressure Range

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



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 0L = 0 - 60 psig

01 = 0 - 100 psig 01 = 0 - 100 psigX = No Gauge

(Additional ranges available upon request)





DO= Dome Loaded (Not available with M option)

M = Metal Knob (Black) (Not available with DO options, 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:

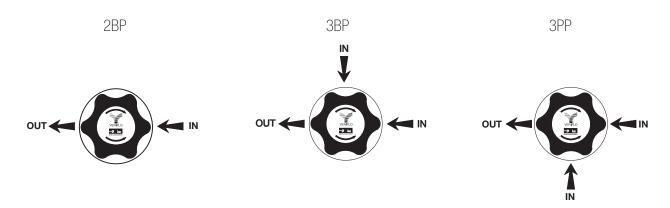
46600581 as a separate line item.

Additional configurations available upon request

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

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

Porting Configurations



ABP3

Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel (std), 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) Hastelloy C-22®
Seal Options	PTFE, FKM or FFKM
Screen Options	316L Stainless Steel (std) 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) Aluminum
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) Note: Metal Knob required for high temperature applications

Functional Performance	
Design	
Proof Pressure	90 psig (6 barg)
Burst Pressure	180 psig (12.4 barg)
Flow Capacity	
C_V	0.3 C _V (std) 0.1 C _V or 0.06 C _V
Leak Rate	
Internal:	Bubble Tight
External:	Bubble Tight
Internal Volume	13.8 cc
Approx. Weight	4.2 lbs (1.9 kgm)

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

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo



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