### **ABP1 Series**

**Back Pressure Regulator** 



# Customer 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 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

phone 510 235 9590 fax 510 232 7396 veriflo.sales@parker.com

www.parker.com/veriflo

#### **Product Features:**

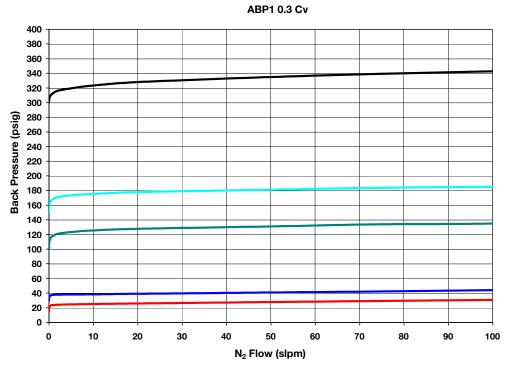
- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance.
- Cleaned for O<sub>2</sub> service is standard.
- Convoluted diaphragm provides outlet pressure stability with changes in flow.
- Integral diaphragm stop provides an additional safety measure.
- Express Service Program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



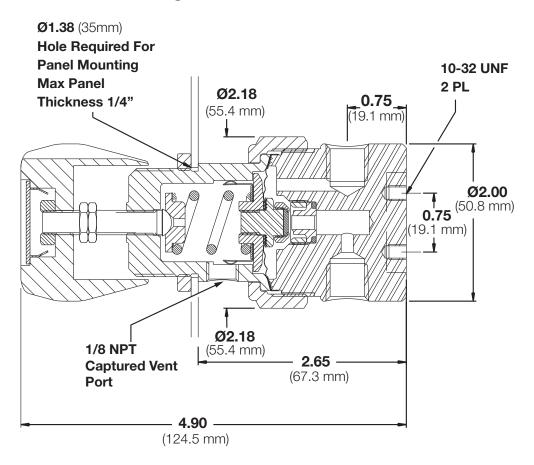
ENGINEERING YOUR SUCCESS.

## ABP1

#### Flow Curves



### **Dimensional Drawing**



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

### ABP1

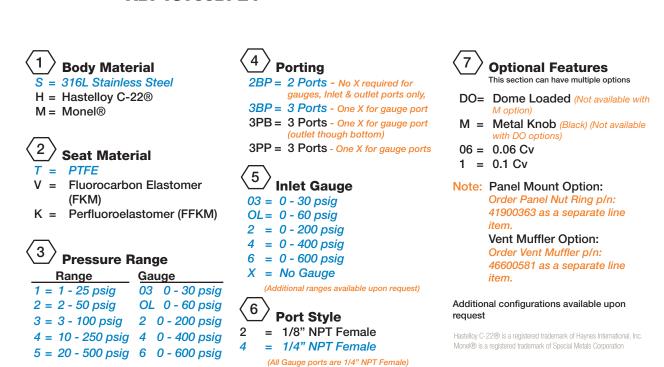
#### Ordering Information

Build an ABP1 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.

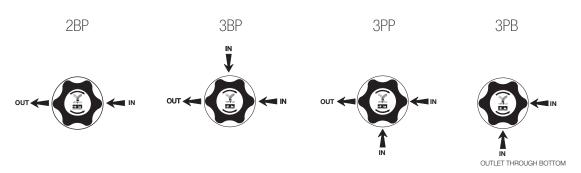
Sample: **ABP1** S T 3 3BP 2 4

Finished Order: **ABP1ST33BP24** 



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

### Porting Configurations



### ABP1

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

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

Formation of Donform	
Functional Perform	nance
Design	
Proof Pressure	750 psig (52 barg)
Burst Pressure	1,500 psig (103 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	5.9 cc
Approx. Weight	2.3 lbs (1.0 kgm)
<b>Operating Condition</b>	ons
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

#### 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



FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

© 2007 Parker Hannifin Corporation LitPN: 25000021 Date of Issue 12/2009



ENGINEERING YOUR SUCCESS.

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it