

ABP1 Series

Back Pressure Regulator

Stainless Steel



Value Proposition:

Designed with versatility in mind, Parker's ABP1 regulator controls inlet, upstream or back pressure in an instrument or analyzer system. Its materials of construction make it suitable for applications where corrosive media and / or environments are present.

Product Features:

- Standard Hastelloy C-22® diaphragm for superior strength and corrosion resistance
- Convoluted diaphragm provides outlet pressure stability with changes in flow
- Integral diaphragm stop provides an additional safety measure

Specifications:

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
Approximate Weight	2.3 lbs. (1.0 kg)

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)
Maximum Temperature of Flow Media	-15°F to 400°F (-26°C to 204°C) Note: Metal Knob required for high temperature applications

Material of Construction	
Wetted	
Body Options	316L Stainless Steel (std). (Consult factory for alloyed material Options)
Diaphragm	Hastelloy® C-22
Diaphragm Assembly Options	316L Stainless Steel and PTFE (std) or Hastelloy® C-22 and PTFE
Seat 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, please contact factory.

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

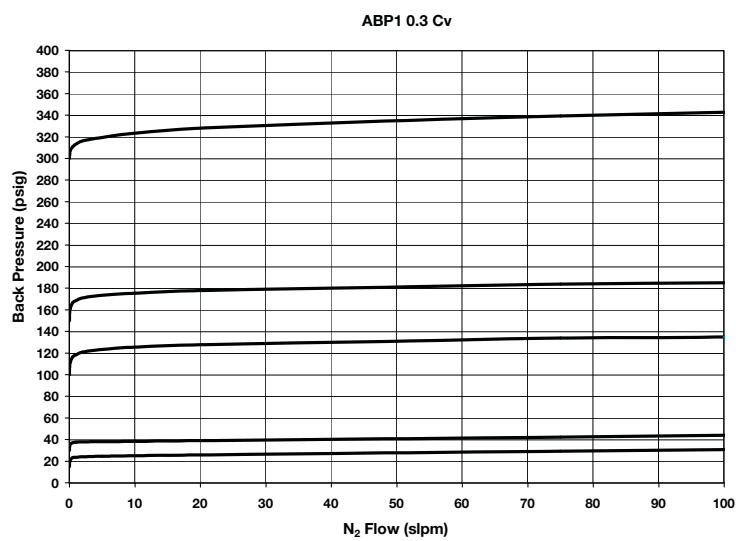


INSTRUMENTATION PRODUCTS DIVISION

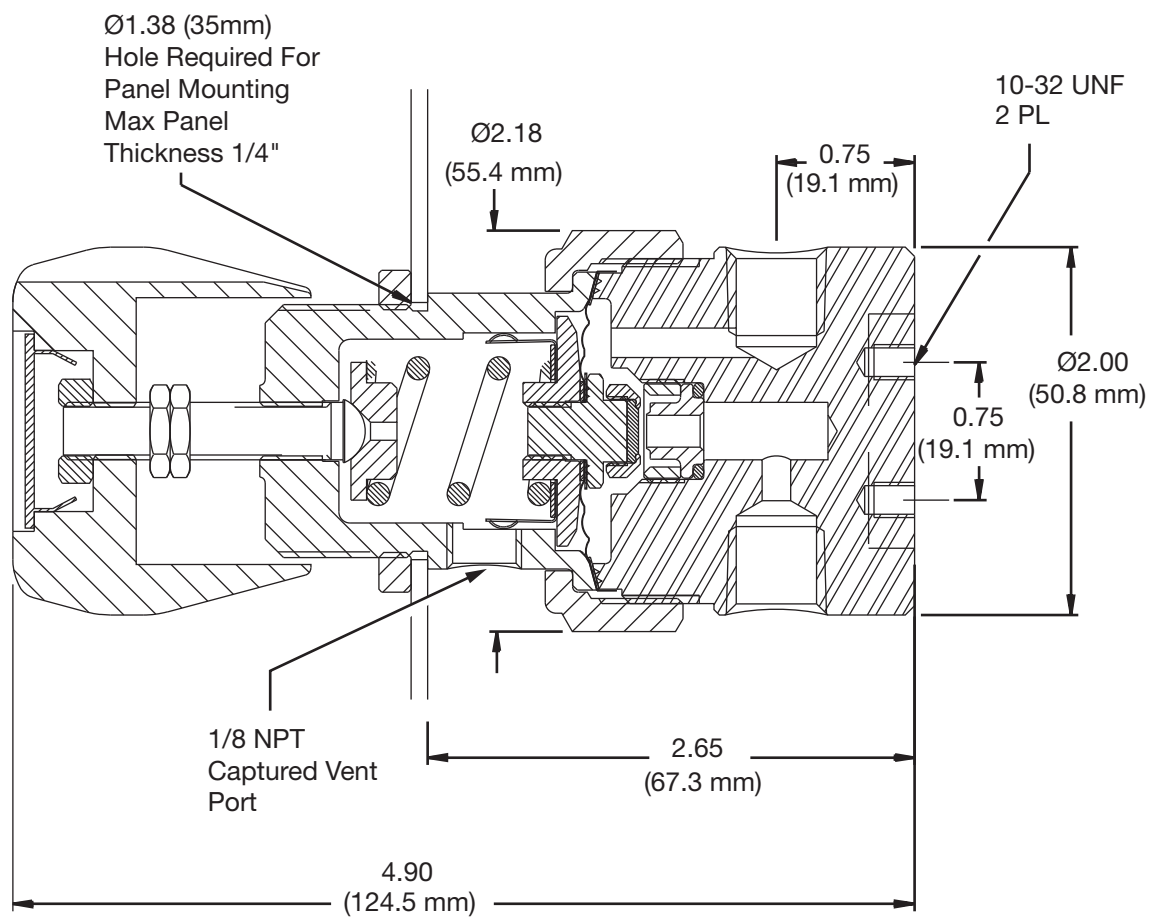
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ABP1 Series

Flow Curve:



Dimensional Drawing:



ABP1 Series

Ordering Information:

Building a Part Number: *Example: ABP1ST33BP24*

Example Part Number:	ABP1	S	T	3	3BP	X	4	
Ordering Parameters/Options:	Series	Body Material	Seal Material	Pressure Range	Porting	Inlet Gauge	Port Style	Optional Features
Table Reference: (see below)	A	B	C	D	E	F	G	H

A - Series

ABP1	ABP1 Series Regulator
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B - Body Material

S	316L Stainless Steel (Consult factory for Alloy Material options)
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C - Seal Material

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

D - Pressure Range

1	1-25 psig
2	2-50 psig
3	3-100 psig
4	10-250 psig
5	20-500 psig

E - Porting

2BP	2 Ports (No X required for gauges, inlet and outlet ports only)
3BP	3 Ports (One X for gauge port)
3PB	3 Ports (One X for gauge port, outlet through bottom)
3PP	3 Ports (One X for gauge port)

F - 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 (Gauges may be provided by local Parker Distributor)

G - Port Style

4	1/4" NPT Female (All Gauge ports are 1/4" NPT Female)
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H - Optional Features

M	Metal Knob (Black)
06	0.06 C _v
1	0.1 C _v
C3	Cleaned for Oxygen Service (Oxygen Cleaning Requirements in accordance with Parker Specification ES8003)

Note:

Panel Mount Option:

Order Panel Mount Nut Ring (PN: IR4-Panel-Nut-B-NP) as separate line item

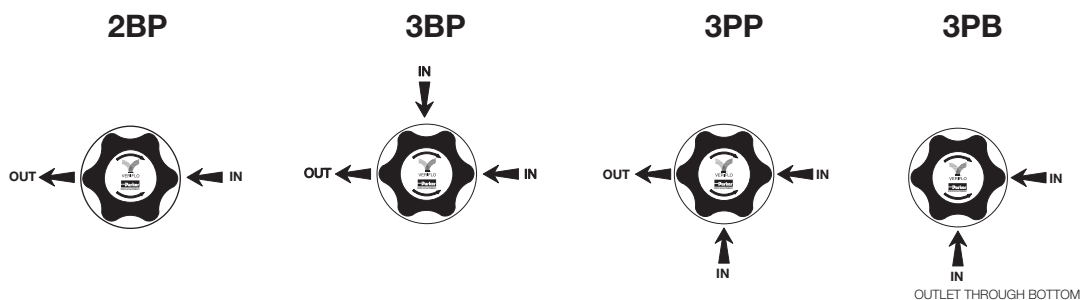
Vent Muffler Option:

Vent Muffler (PN: Muffler-2F-Bronze) as separate line item.

Vent Muffler is standard for the Self Relieving (S), Corrosion Resistant (C) option combination.

Parker Instrumentation Products Division reserves the right to plug NPT ports

Port Configuration:



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WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

Offer of Sale

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Literature #: 25000021

Nov 2017



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