

ABP1 Series

Back Pressure Regulator



Veriflo Division's ABP1 Series Back Pressure regulator 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.



features

- ▶ Low internal volume.
- ▶ Standard Hastelloy C-22[®] diaphragm for superior strength and corrosion resistance.
- ▶ Convolute diaphragm provides outlet pressure stability with changes in flow.
- ▶ Integral diaphragm stop provides an additional safety measure.
- ▶ Maintenance friendly, field serviceable.
- ▶ Meets NACE standard MR0175.



materials of construction

Wetted

Body 316L Stainless Steel, Monel[®]
or Hastelloy C-22[®]
Seat Teflon[®], Viton[®] or Kalrez[®]
Seals Teflon[®]
Diaphragm Hastelloy C-22[®]

Nonwetted

Cap 303 Stainless Steel
Cap nut 316L Stainless Steel
Knob (Gold) 6061-T6 Aluminum
(Optional Black ABS Plastic)

operating conditions

Control pressure: 0-25 psig (0-1.7 barg)
0-50 psig (0-3.5 barg)
0-100 psig (0-7.0 barg)
0-250 psig (0-17.2 barg)
0-500 psig (0-35.0 barg)
Temperature of flow media -40°F to 400°F
(-40°C to 204°C)

functional performance

Design proof pressure 0-25: 37.5 psig
0-50: 75 psig, 0-100: 150 psig, 0-250: 375 psig,
0-500: 750 psig
Design burst pressure 0-25: 75 psig
0-50: 150 psig, 0-100: 300 psig, 0-250: 750 psig,
0-500: 1500 psig
Flow capacity C_v 0.3
(optional 0.1 and 0.06)
(SEMI Flow Coefficient Test# F-32-0998)

Design Leak Rate:

Outboard 1 x 10⁻⁹ scc/sec He
Inboard 1 x 10⁻⁹ scc/sec He
Temperature coefficient02 psig/°F

internal volume

5.9cc

standard connections

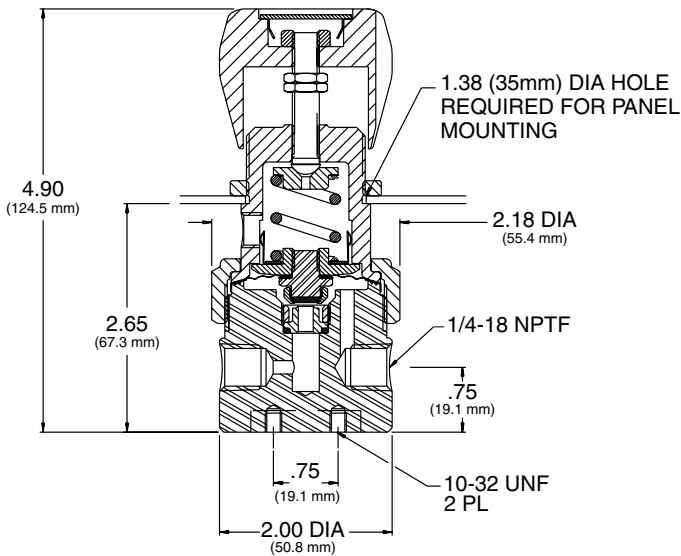
1/8" or 1/4" female pipe threads (NPTF)

approximate weight

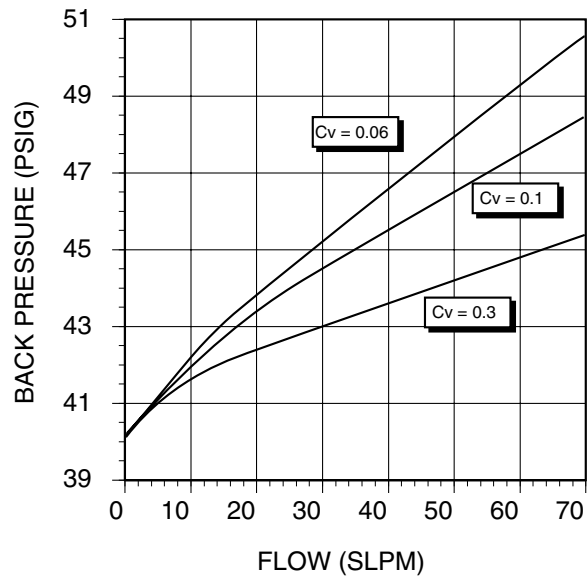
2.2 lbs (1.0 kgm)

ABP1 Series

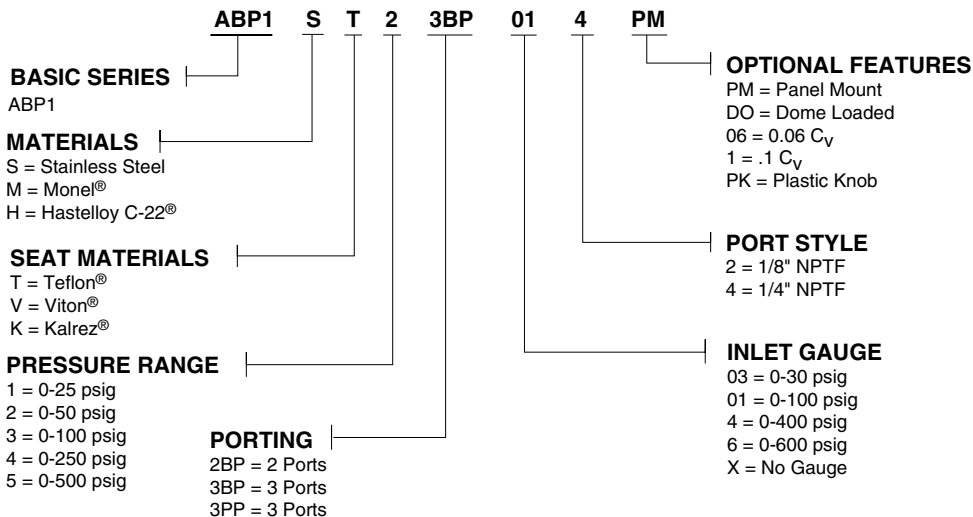
Cross Sectional Drawings



Flow Curve



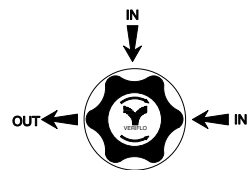
Order Information



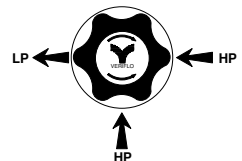
Porting Configurations



Porting Code: 2BP



Porting Code: 3BP



Porting Code: 3PP

Hastelloy C-22® is a registered trademark of of Haynes International, Inc.
Monel® is a registered trademark of International Nickel Company.
Kalrez® and Teflon® are registered trademarks of DuPont Company.
Viton® registered is a trademark of DuPont Dow Elastomers.

Parker Hannifin Corporation

Veriflo Division
250 Canal Boulevard, P.O. Box 4034
Richmond, CA 94804-0034
Phone (510) 235-9590 • Fax (510) 232-7396

Premium Products,
Powerful Solutions.

Parker
Instrumentation