

ABP3 Series

Back Pressure Regulator



Veriflo's ABP3 Series back pressure regulator is designed to provide precise inlet, upstream or back pressure control with corrosive media and environments. The large convoluted diaphragm provides the user greater sensitivity of outlet pressures.



features

- ▶ Oversized diaphragm provides more sensitive pressure adjustments.
- ▶ Standard Hastelloy C-22[®] diaphragm is superior in strength and corrosion resistance, which minimizes the hazards of a rupture.
- ▶ Convoluted diaphragm provides outlet pressure stability with changes in flow design.
- ▶ Integral stop mechanism limits the travel of the diaphragm and will also provide an additional measure of safety to the user.
- ▶ Meets NACE standard MR-01-75.

materials of construction

Wetted

Body 316L Stainless Steel,
Hastelloy C-22[®], Nickel Plated Brass
Seat Teflon[®], Viton[®], Kalrez[®]
Seals Teflon[®]
Diaphragm Hastelloy C-22[®]
Seat Holder 316L Stainless Steel

Non-Wetted

Cap Nickel-Plated Brass
Cap nut Nickel-Plated Brass
Knob 6061-T6 Aluminum

operating conditions

Control pressure 0-5 psig (0-.3 barg)
0-30 psig (0-2 barg)
0-60 psig (0-4 barg)

Temperature of flow media -40°F to 150°F
(-40°C to 66°C)

functional performance

Design proof pressure 90 psig (6 barg)
Design burst pressure 180 psig (12.4 barg)
Flow capacity $C_v = 0.3$
(.06, 0.1 optional)
(SEMI Flow coefficient Test #F-32-0998)

Design Leak Rate:

Outboard 1×10^{-9} scc/sec He
Inboard 1×10^{-9} scc/sec He

internal volume

5.9 cc

standard connections

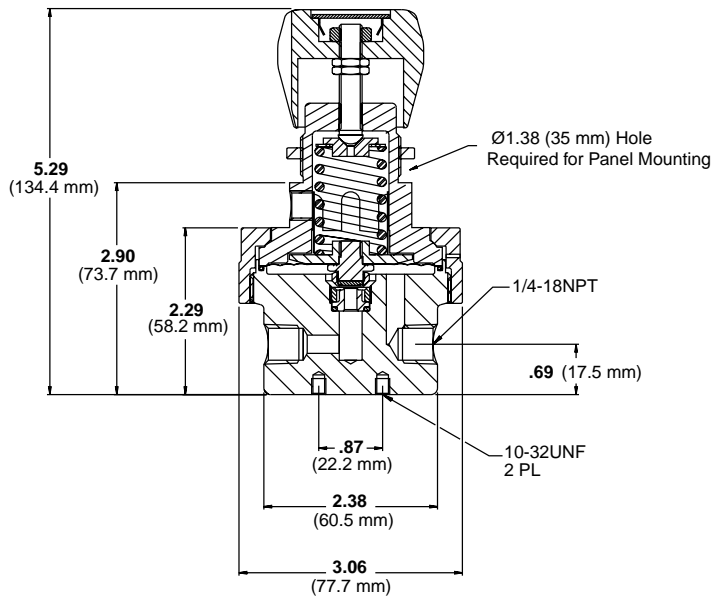
1/8", or 1/4", female pipe threads (NPT)
Standard Ra 15 - 20 Micro Inch
(.38 to .5 Micro meter or less)

approximate weight

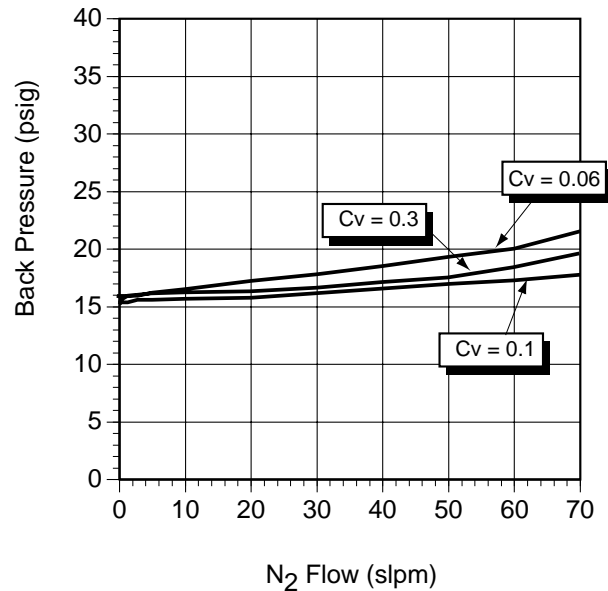
4.2 lbs (1.9 kg)

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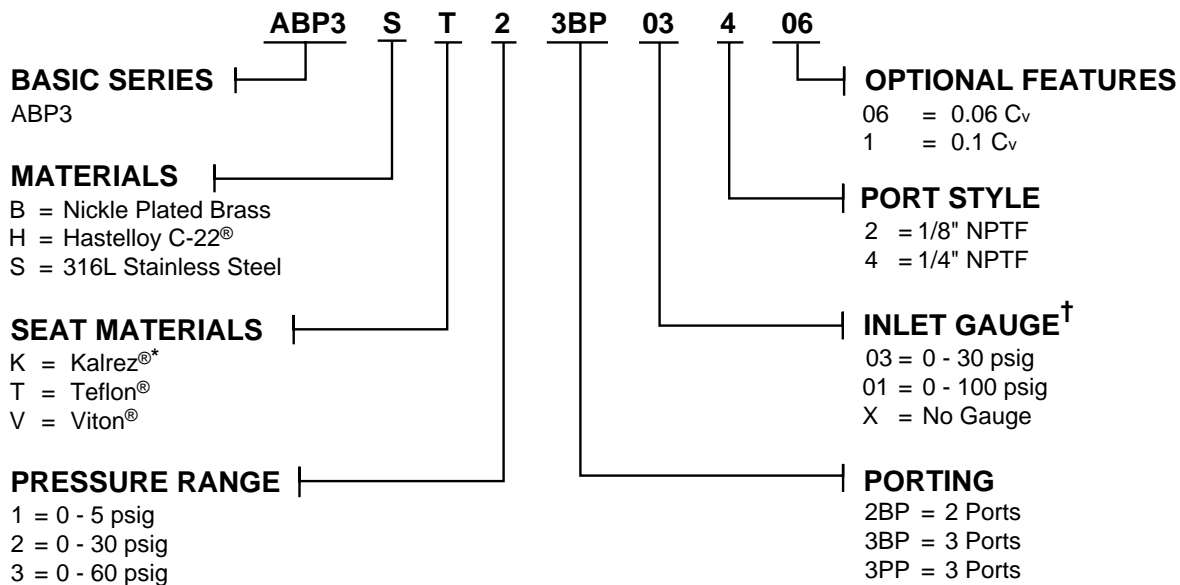
Cross Sectional Drawing



Flow Curve



Ordering Information



*Kalrez[®] seats available with Hastelloy C-22[®] or Stainless Steel nozzles only

[†]Stainless Steel gauges only

Note: All units are standard with threaded caps (bonnets) and nuts for panel mounting.

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 Kalrez[®], and Teflon[®] are registered trademarks of DuPont Company.
 Viton[®] is a registered trademark of DuPont Dow Elastomers.

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