

SERIES BP 1000 BACK PRESSURE REGULATOR PRECISE CONTROL—HIGH RELIABILITY

- 0.5 psig to 300 psig (0.035 to 21 bar) operating pressure ranges
- ◆ Flow capacity Cv = 0.3
- Stainless Steel or Brass construction
- ◆ Hastelloy® C-22® Internals, 'SH' option, for added corrosion resistance
- High leak integrity
- Machined from bar stock
- Optional features and accessories
- Fine adjustment control
- Cleaned for O2 service
- Field repairable
- Diffusion resistant Stainless Steel diaphragm
- One seal to atmosphere other than port connections. (Diaphragm isn't pierced adding a second seal)



ENGINEERING DATA

Operating Parameters

Pressure ratings 0.5 to 10 psig (0.035 to 0.7 bar) BP 1001

1 to 30 psig (0.07 to 2 bar) BP 1002 5 to 100 psig (0.35 to 7 bar) BP 1010 15 to 200 psig (1.05 to 14 bar) BP 1020 15 to 300 psig (1.05 to 21 bar) BP 1030

Proof pressure 150% of maximum operating Burst pressure 300% of maximum operating

Other Parameters

Inlet /outlet ports 1/4" NPT

Internal volume $0.49 \text{ in}^3 (8 \text{ cm}^3)$ Leak rate $1 \times 10^{-9} \text{ sccs}$

MATERIALS OF CONSTRUCTION

Body brass
Nozzle and diaphragm SS 316
Seat Viton®*
Seals Teflon®
Bonnet SS 303

BP 1000SSS 316
SS 316
Viton*
Teflon

SS 303

Hastelloy C-22® Viton* Teflon SS 303

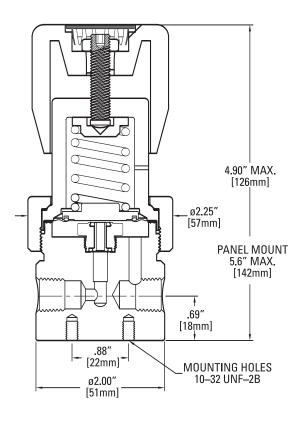
BP 1000SH

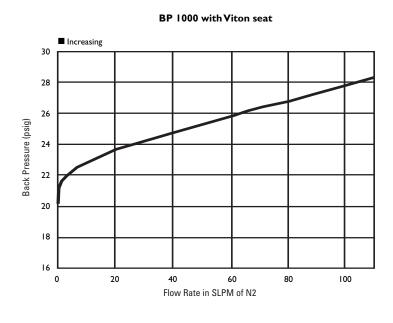
SS 316

All specifications subject to change without notice Hastelloy C-22® Haynes Kalrez, Teflon and Viton® DuPont

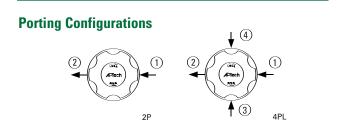
^{*} Optional seats available, Teflon and Kalrez®.

^{**} Optional temperature ranges available Please consult factory.





All dimensions in inches (mm). Metric dimensions are for reference only.



NOTE: Not all porting configurations available in brass.

ORDERING INFORMATION					
BP 1000	S	4PL	4 4	0 0	P
Series	Material	Port	1 2	3 4	Options
		Configuration	Ports	Ports (Gauge/Accessory)	
BP 1001= 0.5-10 psig (.03 to .7 bar)		2P = 2 Ports	4 = 1/4 inch NPT	0 = No gauge or	P = Panel installation*
BP 1002= 1-30 psig (.07 to 2 bar)		4PL = 4 Ports		device installed	KZ = Kalrez seat
BP 1010= 5-100 psig (.35 to 7 bar)				V3 = 30-0-30 psig/bar	TF = Teflon seat
BP 1020= 15-200 psig (1.05 to 14 bar)				1 = 30-0-100 psig/bar	
BP 1030= 15-300 psig (1.05 to 21 bar)				2 = 0-200 psig/bar	
				10 = 0-1000 psig/bar	
S = Stainless steel (SS)			NOTE: Designators required for all ports, but "0" not required		*Panel hole 1.56" diameter
SH = SS with Hastelloy internals			if there isn't a port. A 2P ha		
B = Brass			ports, as example BP 1010		

HMI6094/September2006