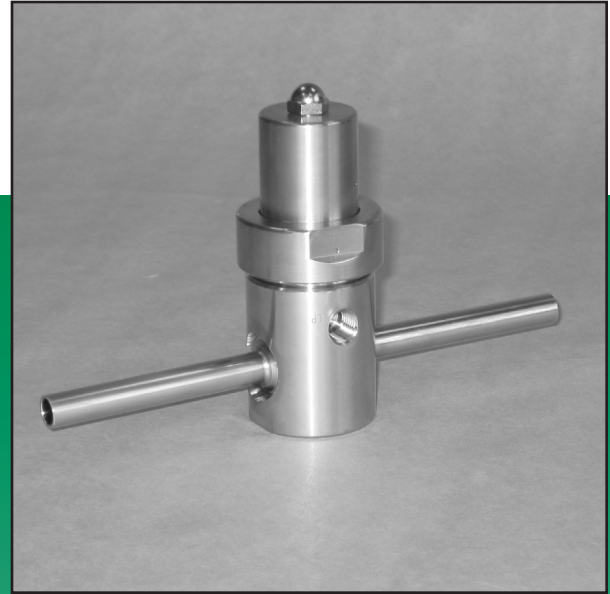




ADVANCED PRESSURE TECHNOLOGY

SERIES VS 1000 VAPORIZING STEAM HEATED SINGLE STAGE PRESSURE REGULATOR

- ◆ Vacuum to 3,500 psig (241 bar) inlet, 500 psig (35 bar) outlet
- ◆ Steam heat vaporizes liquids and prevents condensation of gases
- ◆ Stainless Steel construction
- ◆ Seat materials / temperature range
Polyimide / 482°F (250°C)
PEEK / 275°F (135°C)
PCTFE / 160°F (71°C)
- ◆ Ni-Cr-Mo alloy internals, 'SH' option, for added corrosion resistance
- ◆ High leak integrity
- ◆ Machined from bar stock
- ◆ Optional accessories
- ◆ Diffusion resistant Stainless Steel diaphragm
- ◆ Low internal volume
- ◆ Safety stop for diaphragm travel
- ◆ Installation and operating instructions available at www.aptech-online.com



ENGINEERING DATA

Operating Parameters

Source pressure	vacuum to 3,500 psig (241 bar)
Delivery pressure	VS 1002 1 to 30 psig (0.07 to 2 bar)
	VS 1010 2 to 100 psig (0.14 to 7 bar)
	VS 1025 5 to 250 psig (0.3 to 17 bar)
	VS 1050* 10 to 500 psig (0.7 to 35 bar)
Proof pressure	150% of operating pressures
Burst pressure	300% of operating pressures

Other Parameters

Inlet port	1/8" NPT
Outlet port	1/4" NPT
Steam tube	1/2" OD x 0.049" wall tubing
	650 psig (45 bar) max steam pressure
	482°F (250°C) maximum temperature
Flow coefficient (Cv)**	0.09
Operating temperature	Polyimide to 482°F (250°C)
	PEEK to 275°F (135°C)
	PCTFE to 160°F (71°C)
Leak rate	1 x 10 ⁻⁹ sccs

MATERIALS OF CONSTRUCTION

Body and Steam Tube	VS 1000 S SS 316L
Poppet and diaphragm	SS 316
Seat	Polyimide, PEEK or PCTFE
Bonnet	SS 303

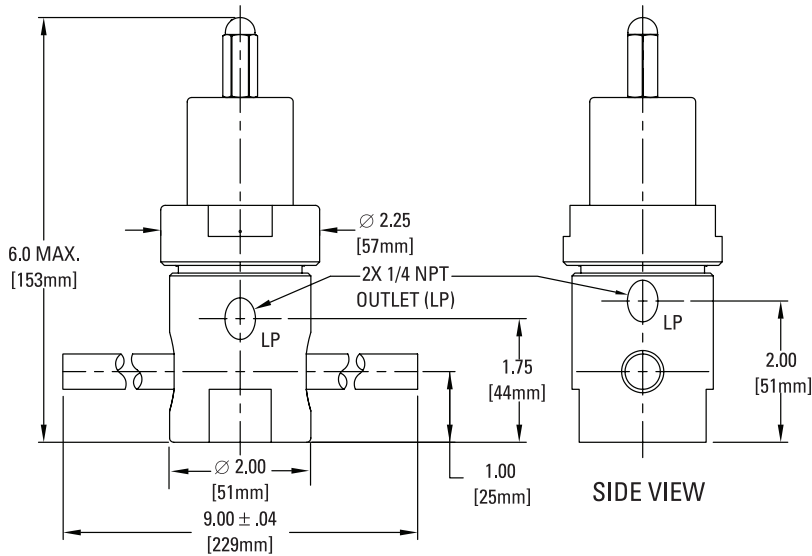
VS 1000 SH SS 316L
Ni-Cr-Mo alloy / UNS N06022
Polyimide, PEEK or PCTFE
SS 303

*VS 1050 and panel mount height dimension different

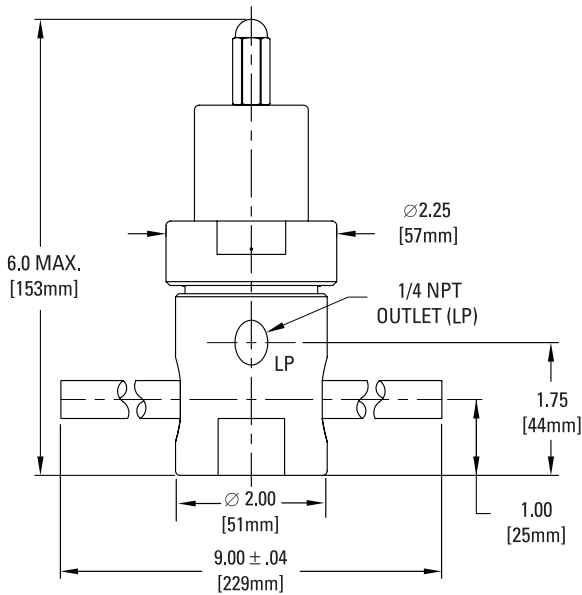
**A pressure regulator Cv is a nominal value which indicates the point of choked flow. Please refer to a flow curve or a recommendation guide for usable flow range.

All specifications subject to change without notice.

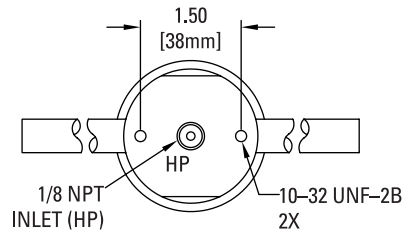
“PB” PORTING



“PA” PORTING



Common Bottom View



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

ORDERING INFORMATION

Series VS 1010	S Material	PA Ports	PK Seat Material	P Options
VS 1002= 1-30 psig (.07 to 2 bar) VS 1010= 2-100 psig (.14 to 7 bar) VS 1025= 5-250 psig (.3 to 17 bar) VS 1050= 10-500 psig (.7 to 35 bar)	S = Stainless steel SH = SS/Ni-Cr-Mo alloy internals	PA = “PA” Porting PB = “PB” Porting	VS = Poyimide seat PK = PEEK Seat KF = PCTFE	P = Panel installation* *Panel hole 1.42 inch diameter

AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.