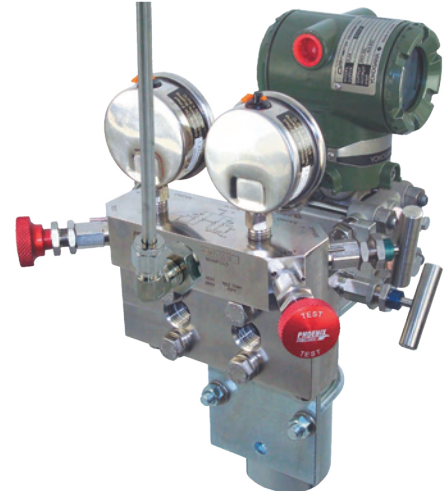


PURGE MANIFOLD

PATENT PENDING

4-Valve and 2-Valve Purge Manifold

Phoenix Precision's constant purge system is designed to protect instruments and connecting tubing from corrosive or toxic process media. This innovative system also prevents plugging of sensing points between instruments and process connections. The constant purge of the system eliminates the need for rotometers, back pressure regulators, multiple threaded connections and individual valves. The system is offered in a differential FLOW, LEVEL application design and a gauge pressure application design. A complete purge system can be ordered with one part number.



Standard Features

Benefits

Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.



Complies with ASME B31.1 & B31.3 shell testing procedures as standard. Ensures structural integrity of valve.

Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.



Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.

Packing below stem threads



Prevents corrosion of critical stem threads

Metal body to bonnet seals are in compression, not tension



Mitigates risk of stress cracking

Stem threads are rolled, not cut



Higher quality stem for longer service life

8 RMS stem finish



Extended packing life

V-Style Teflon™ packing



30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves.

Pressure component materials sourced from the US, Canada or Europe

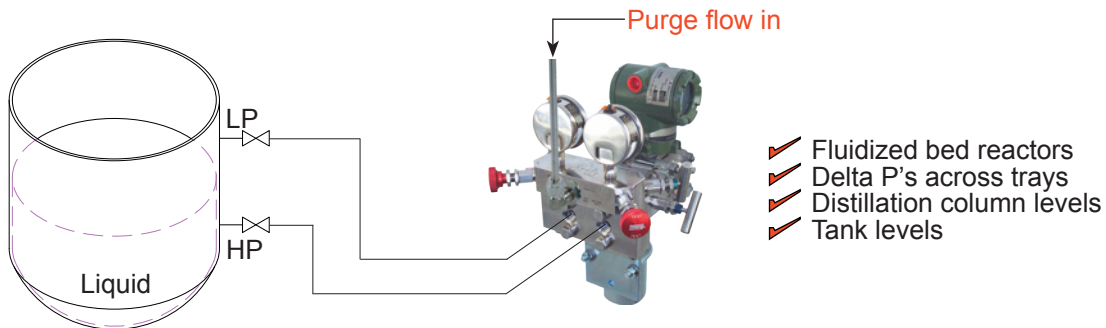


Reliable material traceability. MTR's provided with every order for pressure containing components.

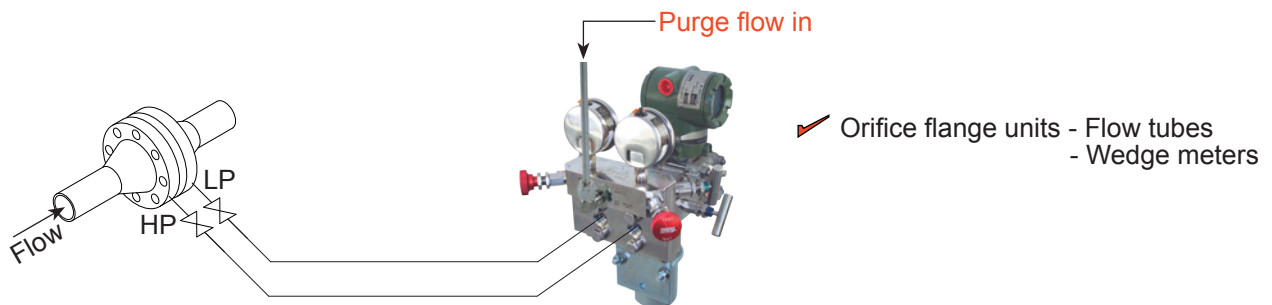
Special Features

- ✓ Fixed constant purge for liquids and gases
- ✓ Ordering a complete purge system with one part number
- ✓ Built-in test valves
- ✓ Built-in bypass valves to allow for high flow purge
- ✓ Reduces maintenance and tampering
- ✓ Built-in 316SS sintered purge filter
- ✓ High temperature option, allows temperatures to 1000°F
- ✓ Makes change of one piece flow metering element easy
- ✓ Variety of flow rates available both liquids and gases
- ✓ Optional built-in check valves to prevent process backing into purge system

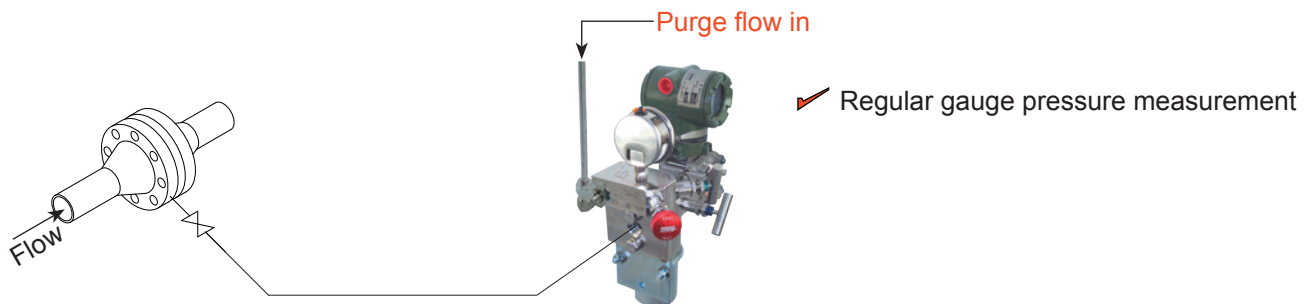
P6PM4H - LEVEL(ΔP) APPLICATION



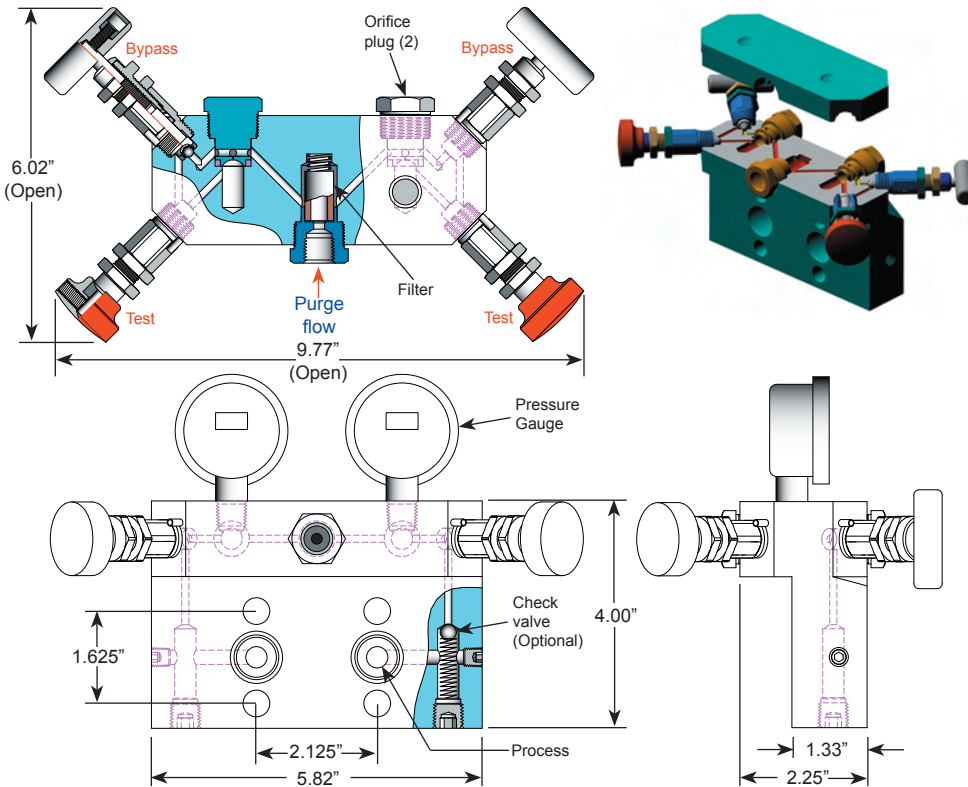
P6PM4H - FLOW(ΔP) APPLICATION



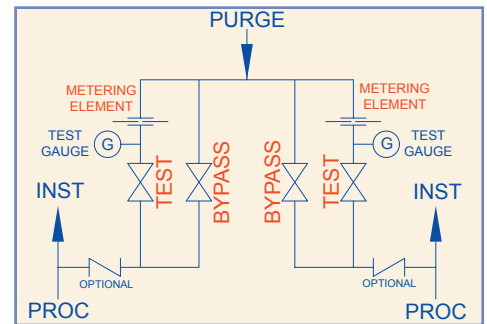
P6PM2H - GAUGE PRESSURE APPLICATION



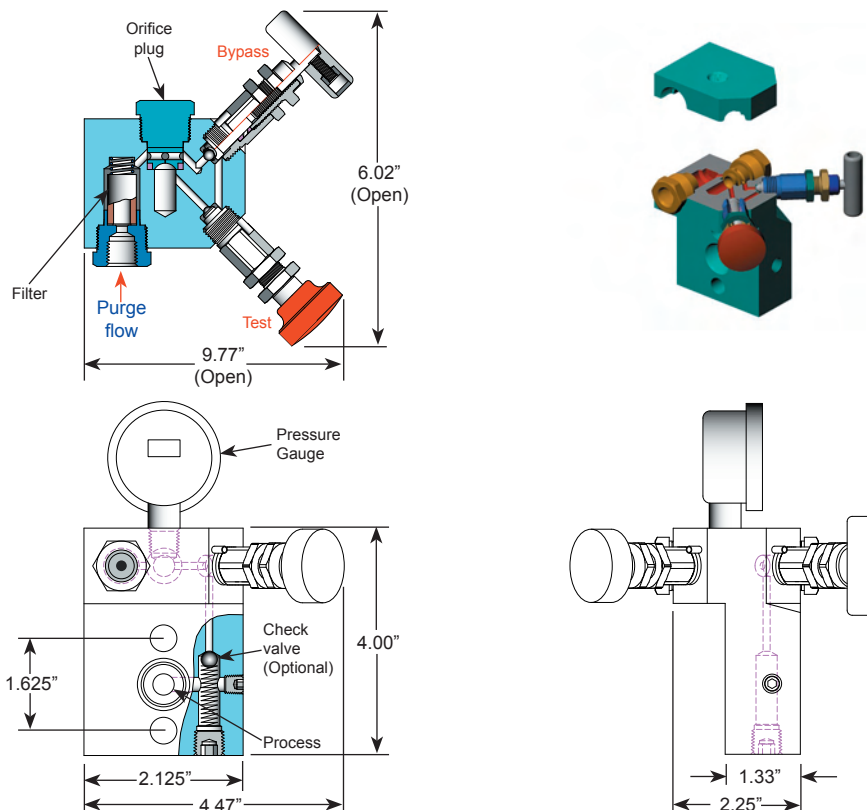
P6PM4H Differential Pressure Purge Manifold



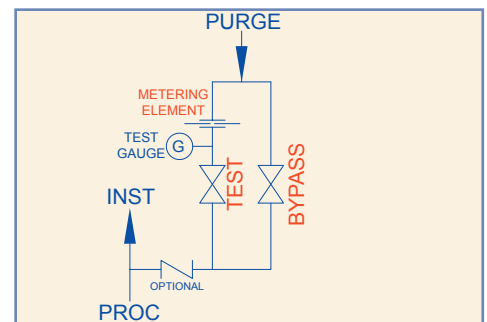
Specifications:
 Type: **P6PM4H** Purge Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Ball Tip
 Packing: Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/8" (Process), 1/8" (Purge)
 Inlet Connections: 1/2" FNPT x 2
 Outlet Connections: 4-bolt Flange
 Bonnet Lock: Pin or Plate
 Weight: 11.8 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.



P6PM2H Gauge Pressure Purge Manifold

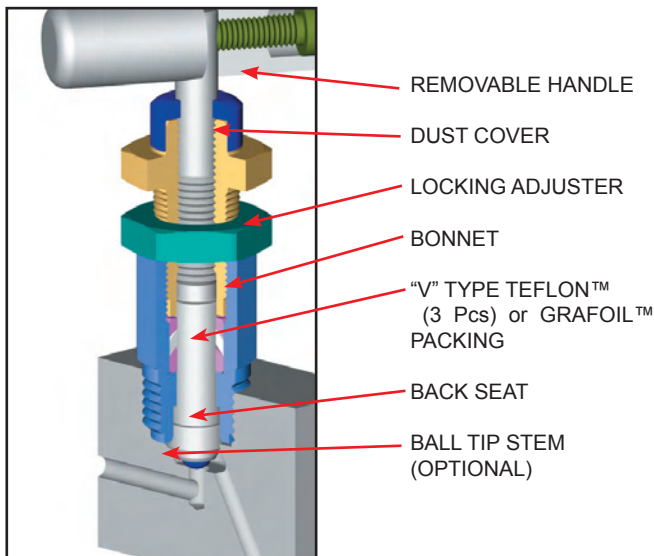


Specifications:
 Type: **P6PM2H** Purge Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Ball Tip
 Packing: Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/8" (Process), 1/8" (Purge)
 Inlet Connections: 1/2" FNPT x 1
 Outlet Connections: 2-Bolt Flange
 Bonnet Lock: Pin or Plate
 Weight: 5.8 lbs
 Special Service: O₂ or CL cleaning available*
 *Other specifications or services may be available.



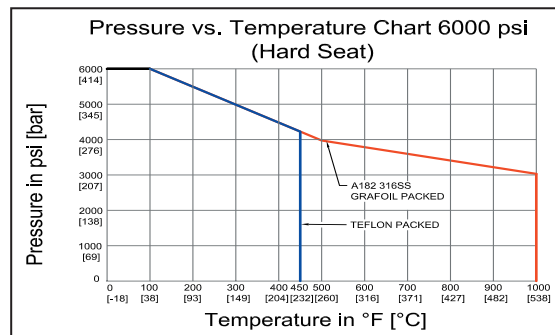
Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Type	Material	Packing	Seat	Stem	Orifice Size	Metering Element Orifice Flow Rates		
											Orifice Size	SCFH (10 psi Air)	GPH (25 psi H ₂ O)
P	6=3/8"	PM4H (4 valves)	8=1/2"	F=FNPT	FL=Flange	SS=ASTM A182 316 /316L	T=Teflon™	Integral (Blank)	Needle (Blank)	See chart on the right	.012"	2	1
		PM2H (2 valves)					G=Grafoil™		B=Ball tip		.016"	4	2
Example: P6PM4H8FFLLSSTB = 3/8" Bore, 1/2" FNPT Inlet, Flange Outlet, 316SS, Teflon™ packing, Integral Seat, Ball Tip Stem											.031"	19	6
P	6	PM4H	8	F	FL	SS	T		B	-012	.047"	36	16
Note: 1. PM4H: a complete purge manifold assembly includes 4-valve purge manifold, 3-valve flange x flange manifold, and horizontal mounting bracket. Packing and orifice size must be specified. 2. PM2H: a complete purge manifold assembly includes 2-valve purge manifold, 2-valve flange x flange manifold, and horizontal mounting bracket. Packing and orifice size must be specified.											.063	55	28
											.078	85	42

Packed Bonnet Assembly



Standard Materials					
Valve	Body	Bonnet	Stem	Ball	Packing
ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	ASTM A182 316SS	Teflon™ and Grafoil™

NOTE: Low torque Grafoil™ available (G4 Packing Code)



Note: Body material specifications based on ASME B16.34 - 2009. Packing material ratings based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

Use with Confidence, Phoenix Precision Products Meet the Following Specifications:

- ✓ ASME B31.1 Power Piping
- ✓ ASME B31.3 Process Piping
- ✓ ASME B16.34 Valves - Flanged, Thread, and Welding End
- ✓ API 598 Valve Inspection and Testing
- ✓ MSS SP-25 Standard Marking Systems for Valves, Fittings and Flange Unions
- ✓ MSS SP-99 Instrument Valves
- ✓ MSS SP-105 Instrument Valves for Code Applications
- ✓ NACE MR0175 for all 316SS valves and A105CS body/316SS bonnet (SC Material Code)

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