



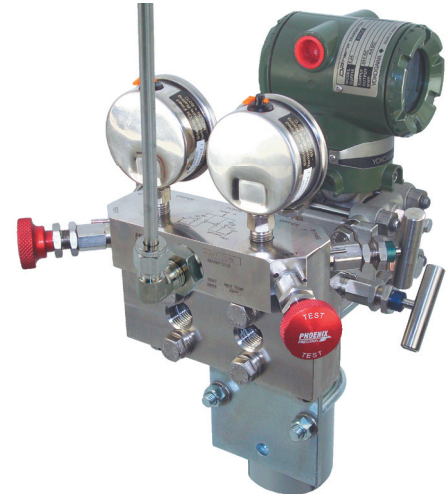
P6PM4H™ AND P6PM2H™ PURGE MANIFOLDS AND ASSEMBLIES

PURGE MANIFOLD

PATENT PENDING

4-Valve and 2-Valve Purge Manifold

Parker 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.

Solutions for Oil & Gas and Petrochemical Processing



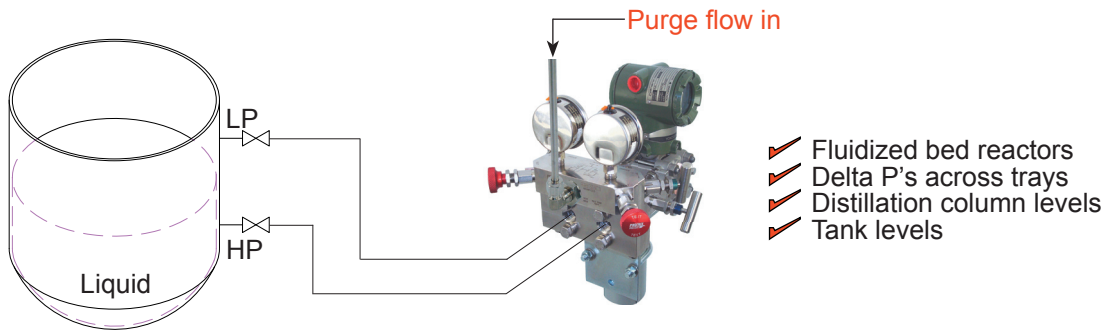


P6PM4H™ and P6PM2H™ Purge Manifolds Special Features and Applications

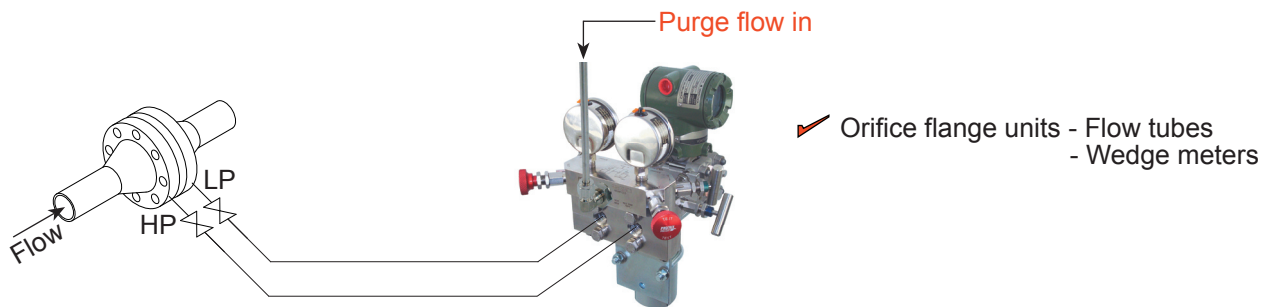
Special Features

- ✓ 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

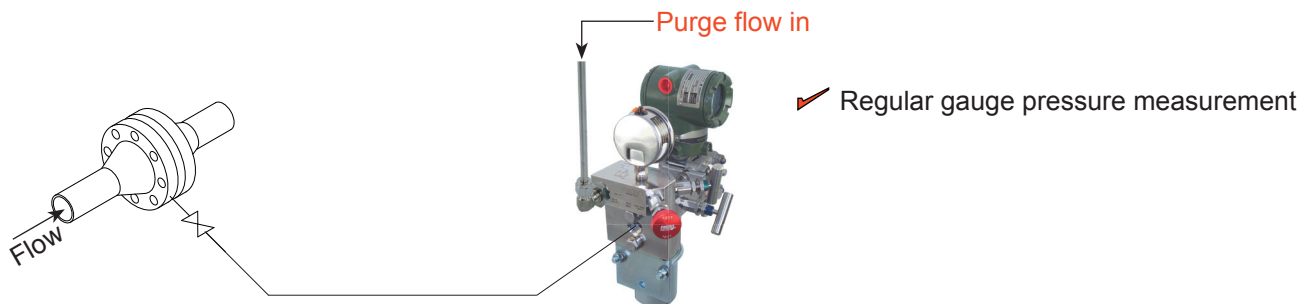
P6PM4H - LEVEL(ΔP) APPLICATION



P6PM4H - FLOW(ΔP) APPLICATION



P6PM2H - GAUGE PRESSURE APPLICATION

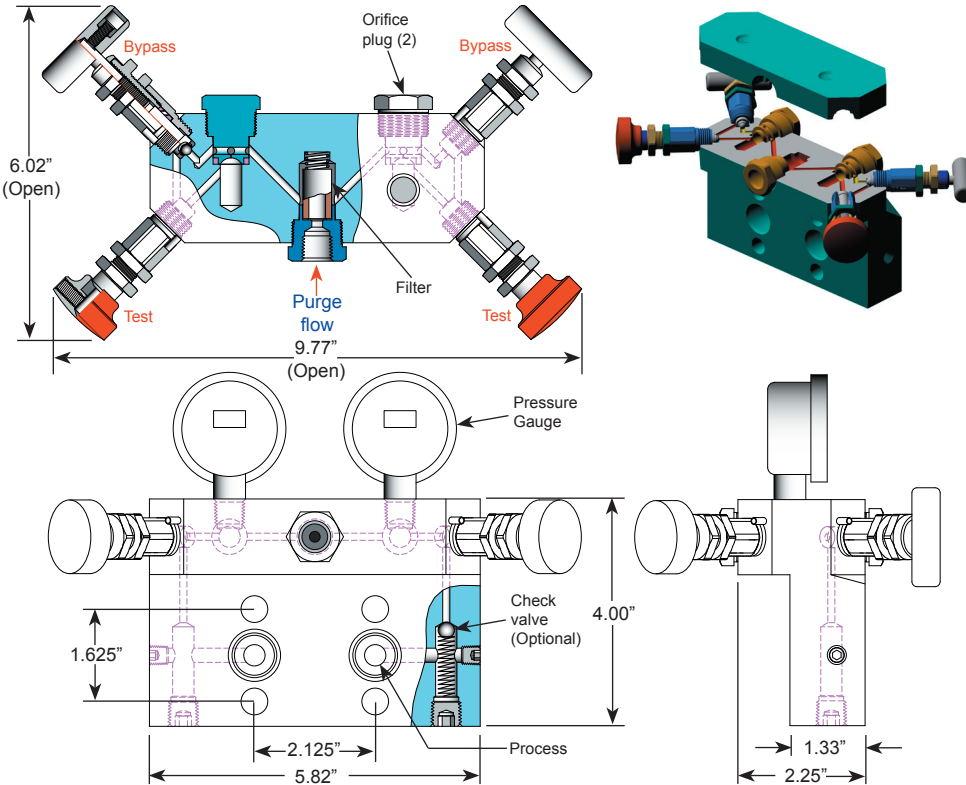




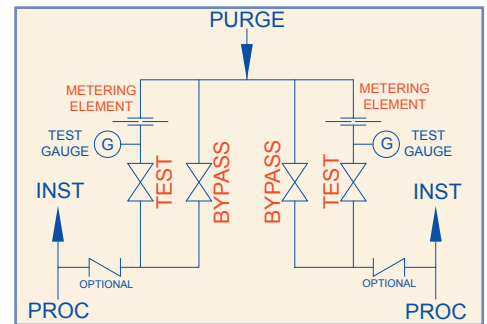
P6PM4H™ and P6PM2H™ Purge Manifolds

Technical Specifications

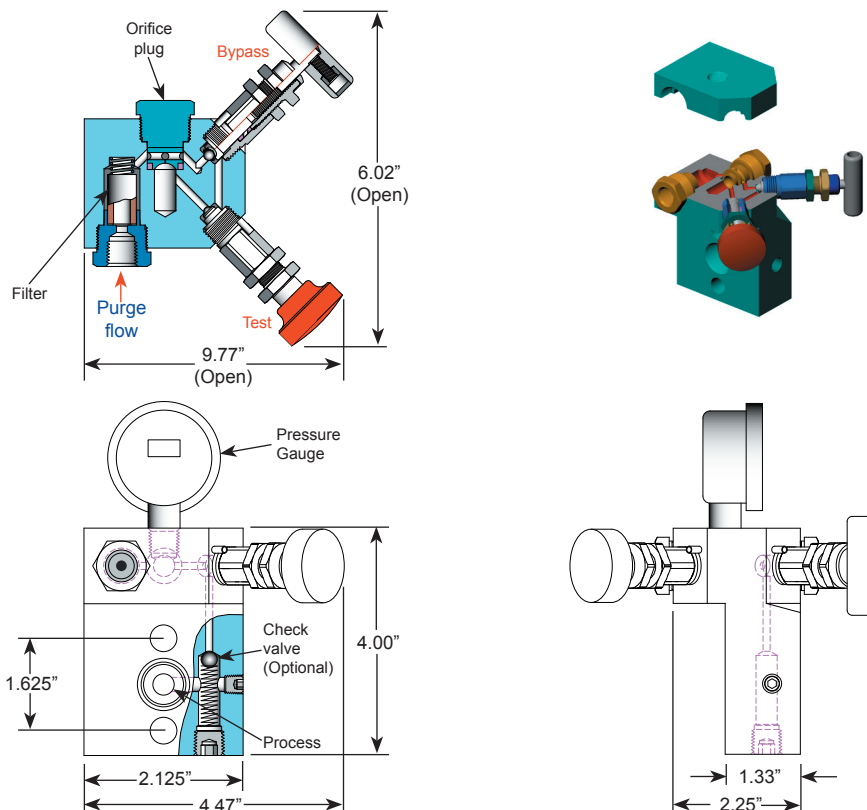
P6PM4H Differential Pressure Purge Manifold



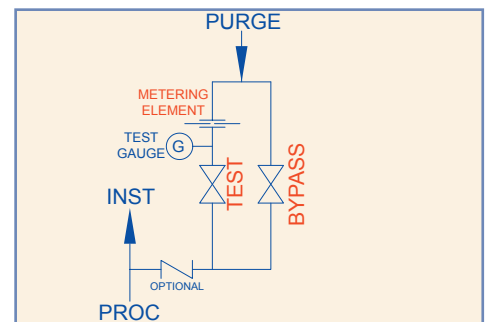
Specifications:
 Type: **P6PM4H** Purge Manifold, Globe Pattern
 Rating: Up to 6000 psi @ 100°F
 (41370 kPa @ 38°C)
 Stem: Ball Tip
 Packing: Teflon™ or Grafoil™
 Seat: Integral
 Handle: Removable
 Bore Size: 3/8" (Process), 1/8" (Purge)
 Inlet Connections: 1/2" FNPT x 2
 Outlet Connections: 4-bolt Flange
 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.

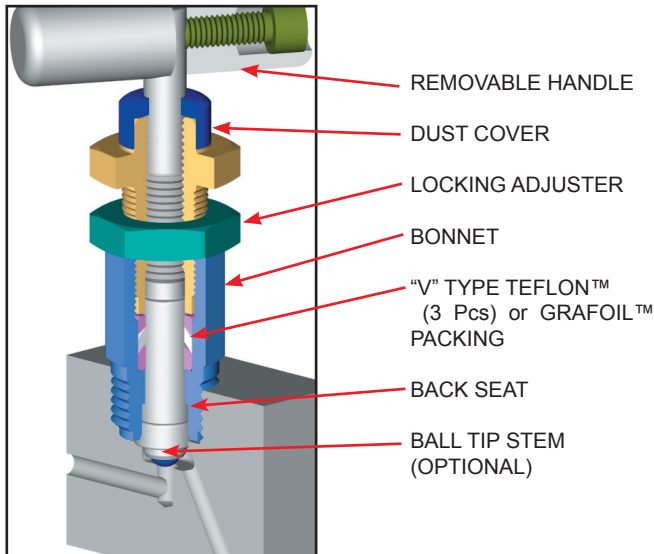




P6PM4H™ and P6PM2H™ Purge Manifolds Model Numbering System

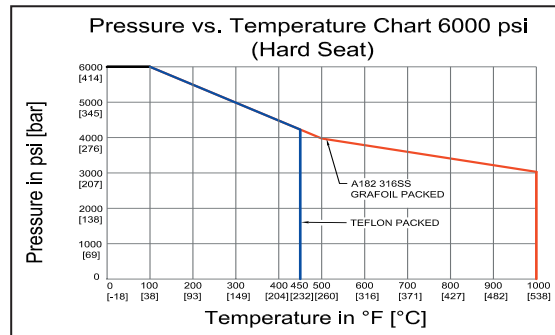
| Parker | Orifice Size | Type | Inlet Size | Inlet Type | Outlet Type | Material | Packing | Seat | Stem | Orifice Size | Metering Element Orifice Flow Rates | | | |
|--|--------------|-----------------|------------|------------|-------------|------------------------|------------|------------------|----------------|------------------------|-------------------------------------|-------------------|-------------------------------|---|
| | | | | | | | | | | | 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: P6PM4H8FFLSSTB = 3/8" Bore, 1/2" FNPT Inlet, Flange Outlet, 316SS, Teflon™ packing, Integral Seat, Ball Tip Stem | | | | | | | | | | | | | | |
| P | 6 | PM4H | 8 | F | FL | SS | T | | B | | -012 | .031" | 19 | 6 |
| 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. | | | | | | | | | | | | | | |
| | | | | | | | | | | | .047" | 36 | 16 | |
| | | | | | | | | | | | .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 - 2013. Packing material ratings based on manufacturer's specifications. Approximations only. Parker does not represent these values as finite. They are provided only as representative values.

Use with Confidence, Parker 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)

For further information please contact:



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