5-Valve Gas Style Manifold

The 5-valve manifold features 2 isolation valves, 2 equalizer valves and 1 vent valve in a single body for isolation and calibration of differential pressure transmitters. The RADIAL PATTERN™ manifold has an innovative angled bonnet configuration for easy operation. Additional features include a body manufactured from extruded solid bar, robust stems and Parker’s innovative design which ensures a bubble tight seal in a variety of conditions.

Standard Features

- Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.
- Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.
- Packing below stem threads
- Metal body-to-bonnet seals are in compression, not tension
- Stem threads are rolled, not cut
- Non-rotating tapered tip stem (3/8” bore only)
- 8 RMS stem finish
- V-Style Teflon™ packing
- Pressure component materials sourced from the US, Canada or Europe

Benefits

- Complies with ASME B31.1 & B31.3 shell testing procedures as standard. Ensures structural integrity of valve.
- Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.
- Prevents corrosion of critical stem threads
-Mitigates risk of stress cracking
- Higher quality stem for longer service life
- Extended soft seat life and a reliable soft seat shut off
- Extended packing life
- 30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves.
- Reliable material traceability. MTR’s provided with every order for pressure containing components.
### Specifications:

**Type:** P3M5S PxP Manifold, Roddable Pattern
- Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
- Stem: Taper Tip and Flat Tip
- Packing: Viton™ O-ring or Teflon™
- Seat: Delrin™ or Peek™
- Handle: Removable
- Bore Size: 3/16" (Primary), 1/8" (EQ., Bleed)
- Inlet Connections: 1/2" FNPT
- Outlet Connections: 1/2" FNPT
- Bonnet Lock: Pin or Plate
- Body Stock: 3.625" x 3.00" x 1.25"
- Weight: 4.1 - 4.3 lbs
- Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

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**Type:** P4M5S PxP Manifold, Roddable Pattern
- Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
- Stem: Taper Tip and Flat Tip
- Packing: Viton™ O-ring or Teflon™
- Seat: Delrin™ or Peek™
- Handle: Removable
- Bore Size: 1/4" (Primary), 1/8" (EQ., Bleed)
- Inlet Connections: 1/2" FNPT
- Outlet Connections: 1/2" FNPT
- Bonnet Lock: Pin or Plate
- Body Stock: 3.625" x 3.00" x 1.37"
- Weight: 5.0 - 5.2 lbs
- Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.

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**Type:** P6M5S PxP Manifold, Roddable Pattern
- Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
- Stem: Taper Tip and Flat Tip
- Packing: Viton™ O-ring or Teflon™
- Seat: Delrin™, Peek™ and Tefzel™ (for blocks)
- Handle: Removable
- Bore Size: 3/8" (Primary), 1/8" (EQ., Bleed)
- Inlet Connections: 1/2" FNPT
- Outlet Connections: 1/2" FNPT
- Bonnet Lock: Pin or Plate
- Body Stock: 3.625" x 3.00" x 1.5"
- Weight: 5.9 - 6.1 lbs
- Special Service: O₂ or CL cleaning available*

*Other specifications or services may be available.
**Specifications:**
Type: **P3M5S** PxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem: Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™ or Peek™
Handle: Removable
Bore Size: 3/16” (Primary), 1/8” (EQ., Bleed)
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625” x 3.75” x 1.5 x 2.4”
Weight: 5.9 - 6.1 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.

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**Specifications:**
Type: **P4M5S** PxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem: Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™ or Peek™
Handle: Removable
Bore Size: 1/4” (Primary), 1/8” (EQ., Bleed)
Inlet Connections: 1/2” FNPT
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625” x 4.0” x 1.7 x 2.4”
Weight: 7.5 - 7.7 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.

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**Specifications:**
Type: **P6M5S** PxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem: Non-rotating Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™, Peek™ or Tefzel™ (for blocks)
Handle: Removable
Bore Size: 3/8” (Primary), 1/8” (EQ., Bleed)
Inlet Connections: 1/2” FNPT
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625” x 4.0” x 1.7 x 2.4”
Weight: 7.5 - 7.7 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.
Specifications:
Type: P3M5S FxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)
Stem: Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™ or Peek™
Handle: Removable
Bore Size: 3/16" (Primary), 1/8" (EQ., Bleed)
Inlet Connections: 4-Bolt Flange
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625" x 4.0" x 1.7 x 2.4"
Weight: 6.9 - 7.1 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.

Specifications:
Type: P4M5S FxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)
Stem: Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™ or Peek™
Handle: Removable
Bore Size: 1/4" (Primary), 1/8" (EQ., Bleed)
Inlet Connections: 4-Bolt Flange
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625" x 4.0" x 1.7 x 2.4"
Weight: 7.6 - 7.8 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.

Specifications:
Type: P6M5S FxF Manifold, Roddable Pattern
Rating: Up to 6000 psi @ 100°F
(41370 kPa @ 38°C)
Stem: Taper Tip and Flat Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™, Peek™ or Tefzel™ (for blocks)
Handle: Removable
Bore Size: 3/8" (Primary), 1/8" (EQ., Bleed)
Inlet Connections: 4-Bolt Flange
Outlet Connections: 4-Bolt Flange
Bonnet Lock: Pin or Plate
Body Stock: 3.625" x 4.0" x 1.7 x 2.4"
Weight: 7.6 - 7.8 lbs
Special Service: O₂ or CL cleaning available*
*Other specifications or services may be available.
3/16” Bore O-ring and Packed Bonnet Assembly

REMOVABLE HANDLE
DUST COVER
BONNET
DUAL O-RING SEAL
BACK SEAT (INSERT)
TAPER TIP STEM
SOFT SEAT
NOTE: BONNET LOCK PIN NOT SHOWN

1/4” Bore O-ring and Packed Bonnet Assembly

REMOVABLE HANDLE
DUST COVER
LOCKING ADJUSTER
BONNET
“V” TYPE TEFLON™ (3 Pcs) PACKING
BACK SEAT
TAPER TIP STEM
SOFT SEAT
NOTE: BONNET LOCK PIN NOT SHOWN

3/8” Bore O-ring and Packed Bonnet Assembly

REMOVABLE HANDLE
DUST COVER
BONNET
DUAL O-RING SEAL
BACK SEAT (INSERT)
NON-ROTATING TAPER TIP STEM
SOFT SEAT
NOTE: BONNET LOCK PIN NOT SHOWN
**Bleed and Equalizer Bonnet, Stem and Seat Characteristics**

### 1/8” Bore O-ring and Packed Bonnet Assembly for Bleed and Equalizer

**Flow Diagram for All Manifolds**

- **3/8” Bore**
  - Non-rotating Packed for Block
- **3/8” Bore**
  - Non-rotating O-ring for Block
- **3/16” Bore**
  - Packed for Block
- **3/16” Bore**
  - O-ring for Block
- **1/8” Bore**
  - Packed for Equalize or Bleed
- **1/8” Bore**
  - O-ring for Equalize or Bleed

**Stem and Seat Configurations**

- **REMOVABLE HANDLE**
- **DUST COVER**
- **LOCKING ADJUSTER**
- **BONNET**
- **“V” TYPE TEFLO™ (3 Pcs) PACKING**
- **BACK SEAT**
- **FLAT TIP STEM**
- **SOFT SEAT**

*NOTE: BONNET LOCK PIN NOT SHOWN*
Manifold Applications

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

Seal & Seat Temperature Rating

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<tbody>
<tr>
<td>A</td>
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<td>15°F (-10°C)</td>
<td>400°F (204°C)</td>
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<td>V</td>
<td>Viton™</td>
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<td>400°F (204°C)</td>
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<td>T</td>
<td>Teflon™</td>
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<td>P</td>
<td>Peek™</td>
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<td>Z</td>
<td>Tefzel™</td>
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<td>300°F (150°C)</td>
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Materials of Construction

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<th>SC</th>
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<td>Body</td>
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<td>ASTM A105 CS</td>
<td>ASTM A108 CS</td>
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<td>ASTM A582 303SS</td>
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<td>ASTM A582 303SS</td>
<td>ASTM A108 CS</td>
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Note: 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.
P3M5S™, P4M5S™, P6M5S™
Model Numbering System

<table>
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<th>Parker</th>
<th>Orifice Size</th>
<th>Type</th>
<th>Inlet Size</th>
<th>Inlet Type</th>
<th>Outlet Size</th>
<th>Outlet Type</th>
<th>Material</th>
<th>Packing</th>
<th>Seat</th>
<th>Option Code</th>
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<td>8=1/2&quot;</td>
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</table>

EXAMPLE: P6M5SFLFLSSVD = 3/8" Orifice, Flange Inlet, Flange Outlet, 316SS Body, Viton™ packing, Delrin™ Seats, Needle Tip Stem

*B for code applications, A108 CS is unacceptable, A105 CS must be selected for CS valves.
**For block bonnet only.

Note: Standard Bolting Options:
1. CS - carbon steel, Gr.8, zinc plated bolts; SS - stainless steel, 18.8 (304SS) bolts.
2. All manifolds are supplied with both 1" lg. and 2-1/2" lg. bolts.
3. Manifolds with dielectric option are supplied with 1-1/4" lg. and 2-1/2" lg. bolts.

### BOLT OPTIONS

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<tr>
<th>Application</th>
<th>Description</th>
<th>Length</th>
<th>CS</th>
<th>304 SS</th>
<th>316 SS</th>
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<td>DP Transmitter</td>
<td>Bi-planar Design: Rosemount™ 1151, Honeywell™ 900 etc.</td>
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<td>Blank: Standard for CS Manifolds</td>
<td>Blank: Standard for SS Manifolds</td>
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<td>Coplanar Design: Rosemount™ 3051, 3095, 2024 with coplanar flange.</td>
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<td>Blank: Standard for CS Manifolds</td>
<td>Blank: Standard for SS Manifolds</td>
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<td>Flow Computer</td>
<td>ABB Total Flow, Thermo Fisher™ (with Honeywell™ Transducer Module), Barton Scanner, Bristol Teleflow &amp; TeleTrans</td>
<td>1&quot;</td>
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<td>Blank: Standard for SS Manifolds</td>
<td>-S6</td>
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<td>DP Bi-planar design used in combination with DP to GP Adapter (DPG6S)</td>
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<td>-200S4</td>
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<td>DP Coplanar design used in combination with DP to GP Adapter (DPG6S)</td>
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For further information please contact:

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Instrumentation Group  
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Calgary, Alberta T2E 7L3  
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Distributor / Representative:

P3M5S™, P4M5S™, P6M5S™
Model Numbering System