1/8" Bore Bottom Mount Manifold

The 1/8" bore bottom mount manifold is designed for transmitters having flanged bottom inlets with 2-1/8" spacing. The globe-style manifold affords maximum shut-off and is available in 2-valve, 3-valve, 5-valve gas and 5-valve power configurations in a variety of materials and a range of special tips. The manifold includes robust stems, pinned bonnets, and two mount holes for connecting to Parker’s bracket mount.

### 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
- 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 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.
**P2MBM™ 2-, 3-, 5-Valve Manifold Technical Specifications**

### 2 - Valve Configuration
- **Specifications:** Type: P2MBM2H Valve, Globe Pattern
  - **Rating:** Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
  - **Stem:** Needle tip or Ball tip
  - **Packing:** Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
  - **Seat:** Integral
  - **Handle:** Removable
  - **Bore Size:** 1/8"
  - **Inlet Connections:** 1/2" FNPT
  - **Outlet Connections:** Flange
  - **Vent Port:** 1/4" FNPT (2 Places, includes 1/4" Pipe Plugs)
  - **Bonnet Lock:** Pin or Plate
  - **Body Stock:** 4.625" x 2.48" x 1.33"
  - **Weight:** 4.18 lbs
  - **Special Service:** O₂ or CL cleaning available*

*Other specifications or services may be available.

### 3 - Valve Configuration
- **Specifications:** Type: P2MBM3H Valve, Globe Pattern
  - **Rating:** Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
  - **Stem:** Needle tip or Ball tip
  - **Packing:** Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
  - **Seat:** Integral
  - **Handle:** Removable
  - **Bore Size:** 1/8"
  - **Inlet Connections:** 1/2" FNPT
  - **Outlet Connections:** Flange
  - **Vent Port:** 1/4" FNPT (1 Place, includes 1/4" Pipe Plug)
  - **Bonnet Lock:** Pin or Plate
  - **Body Stock:** 4.625" x 2.48" x 1.33"
  - **Weight:** 3.90 lbs
  - **Special Service:** O₂ or CL cleaning available*

*Other specifications or services may be available.

### 5 - Valve Configuration (Gas)
- **Specifications:** Type: P2MBM5H Valve, 1-Vent, 2-Equalize, Globe Pattern
  - **Rating:** Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
  - **Stem:** Needle tip and Ball tip
  - **Packing:** Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
  - **Seat:** Integral
  - **Handle:** Removable
  - **Bore Size:** 1/8"
  - **Inlet Connections:** 1/2" FNPT
  - **Outlet Connections:** Flange
  - **Vent Port:** 1/4" FNPT (1 Place, includes 1/4" Pipe Plug)
  - **Bonnet Lock:** Pin or Plate
  - **Body Stock:** 4.625" x 2.48" x 1.33"
  - **Weight:** 4.72 lbs
  - **Special Service:** O₂ or CL cleaning available*

*Other specifications or services may be available.

### 5 - Valve Configuration (Power)
- **Specifications:** Type: P2MBM5H Valve, 2-Vent, 1-Equalize, Globe Pattern
  - **Rating:** Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
  - **Stem:** Needle tip and Ball tip
  - **Packing:** Aflas™, Viton™ O-ring, Teflon™ or Grafoil™
  - **Seat:** Integral
  - **Handle:** Removable
  - **Bore Size:** 1/8"
  - **Inlet Connections:** 1/2" FNPT
  - **Outlet Connections:** Flange
  - **Vent Port:** 1/4" FNPT (2 Places, includes 1/4" Pipe Plugs)
  - **Bonnet Lock:** Pin or Plate
  - **Body Stock:** 4.625" x 2.48" x 1.33"
  - **Weight:** 4.72 lbs
  - **Special Service:** O₂ or CL cleaning available*

*Other specifications or services may be available.
**O-Ring Bonnet Assembly**

<table>
<thead>
<tr>
<th>Valve</th>
<th>Body</th>
<th>Bonnet</th>
<th>Stem</th>
<th>Ball</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>ASTM A108CS</td>
<td>ASTM A108CS</td>
<td>ASTM A582 303SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Dual Viton™ O-ring with Teflon™ backup ring</td>
</tr>
<tr>
<td>SC</td>
<td>ASTM A105CS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Teflon™ and Grafoil™</td>
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<tr>
<td>316SS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Dual Viton™ O-ring with Teflon™ backup ring</td>
</tr>
</tbody>
</table>

**Packed Bonnet Assembly**

<table>
<thead>
<tr>
<th>Valve</th>
<th>Body</th>
<th>Bonnet</th>
<th>Stem</th>
<th>Ball</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td>ASTM A108CS</td>
<td>ASTM A108CS</td>
<td>ASTM A582 303SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Teflon™ and Grafoil™</td>
</tr>
<tr>
<td>SC</td>
<td>ASTM A105CS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Teflon™ and Grafoil™</td>
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<tr>
<td>316SS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>ASTM A182 316SS</td>
<td>SEE OPTION CODES ON PAGE 4</td>
<td>Teflon™ and Grafoil™</td>
</tr>
</tbody>
</table>

**Pipe Plug for Vent**

1/4" Pipe Plug: PP4M

- **Specifications:**
  - Rating: 10000 psi @ 100°F (68950 kpa @ 38°C)
  - Hex Size: 5/8"
  - Weight: 0.045 lbs (Length: 0.7")

*Add SS for A182 316SS, CS for A108CS

**Stem and Seat Configurations**

- **Mini Needle Tip** (Standard)
- **Mini Ball Tip** (Optional)

**Note:** Optional low torque Grafoil™ available (G4 Packing Code)

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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.
## P2MBM™ 2-, 3-, 5-Valve Manifold
### Model Numbering System

<table>
<thead>
<tr>
<th>Parker Orifice Size</th>
<th>Orifice 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>Stem Tip</th>
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</thead>
<tbody>
<tr>
<td>P 2=1/8”</td>
<td>MBM2H</td>
<td>8=1/2”</td>
<td>F=FNPT</td>
<td>FL=Flange</td>
<td>SS=ASTM A182 316/316L</td>
<td>A=Aflas™</td>
<td>Integral (leave blank)</td>
<td>Needle Tip Standard (leave blank)</td>
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</tr>
<tr>
<td>MBM3H (3-Valve Manifold)</td>
<td>SC=ASTM A105 CS*</td>
<td>V=Viton™ (FKM)</td>
<td>B=316SS Ball Tip</td>
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<tr>
<td>MBM5H (5-Valve Manifold)</td>
<td>CS=ASTM A105 CS*</td>
<td>T=Teflon™ (PTFE)</td>
<td>BC=Ceramic Ball Tip</td>
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<tr>
<td>MPBM5H (5-Valve, Power Style)</td>
<td>C=ASTM A350 LF2</td>
<td>G=Grafoil™</td>
<td>BM=Monel™ Ball Tip</td>
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<td>N4=Monel™ 400</td>
<td>G4=Low Torque Grafoil™</td>
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<td>N6=Inconel™ 625</td>
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<td>N8=Inconel™ 825</td>
<td>BM=Monel™ Ball Tip</td>
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<td></td>
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<td>N2=Hastelloy™ C276</td>
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</tbody>
</table>

**Example:** P2MBM3H8FFLSSTB = Parker, 1/8” Orifice, Bottom Mount, 3-Valve, 1/2” MNPT Inlet, Flange Outlet, 316 SS Body, Teflon™ Packing, Integral Seat, 316 SS Ball Tip Stem

*For code applications, 1A08 CS is unacceptable, A105 CS must be selected for CS valves.*

### 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)**

### Seal and Seat Material Temperature Rating

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>MIN. TEMP</th>
<th>MAX. TEMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Aflas™</td>
<td>15°F (-10°C)</td>
<td>400°F (204°C)</td>
</tr>
<tr>
<td>V</td>
<td>Viton™</td>
<td>-20°F (-29°C)</td>
<td>400°F (204°C)</td>
</tr>
<tr>
<td>T</td>
<td>Teflon™</td>
<td>-65°F (-54°C)</td>
<td>450°F (232°C)</td>
</tr>
<tr>
<td>G</td>
<td>Grafoil™ (SS Body)</td>
<td>-70°F (-56°C)</td>
<td>1000°F (537°C)</td>
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<tr>
<td>G</td>
<td>Grafoil™ (CS Body)</td>
<td>-70°F (-56°C)</td>
<td>800°F (427°C)</td>
</tr>
</tbody>
</table>

**Note:** Grafoil™ is suitable for services in excess of 1000°F in a non-oxidizing environment.

### For further information please contact:

**Parker Hannifin Canada**
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Phone: (403) 291-3154
Fax: (403) 291-3292

**Distributor / Representative:**