## SPECIFICATIONS

### Performance

<table>
<thead>
<tr>
<th>Flow Accuracy:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward</td>
<td>±1% of full scale</td>
</tr>
<tr>
<td>Reverse</td>
<td>±2% of full scale</td>
</tr>
<tr>
<td>Repeatability:</td>
<td>±0.2%</td>
</tr>
<tr>
<td>Turbine Response:</td>
<td>≤200ms</td>
</tr>
</tbody>
</table>

### Temperature:

- Fluid: -4 to +300 °F (-20 to +150 °C)
- Ambient: -4 to +131 °F (-20 to +55 °C)

### Flow Readout:

- Linearity and zero shift
- ±1 digit

### Operating Pressure:

- up to 6000 PSI (414 Bar, 41.4 MPa, 420 kg/cm²)

### Pressure Drop:

See ΔP charts on page 14

### Readout Accuracy:

- ±1 digit

### Material

- **Housing:** 6013-T651 Aluminum; anodized
- **Turbine Rotor:** T416 Stainless steel
- **Ball Bearings:** 440C Stainless steel
- **Rotor Shaft:** T303 Stainless steel
- **Rotor Supports:** 6061-T6 Aluminum alloy
- **Hub Cones:** 6061-T6 Aluminum alloy
- **Valve Body:** 12L14 Steel; zinc plate, dichromate finish
- **Valve Stem:** T303 Stainless steel
- **Spool/Sleeve:** 4340 Alloy steel; hardened
- **Temperature Probe:** T303 Stainless steel
- **Magnetic Pick-up:**
  - Body: 12L14 Steel; electroless nickel plate
  - Nut: 12L14 Steel; electroless nickel plate
- **Seals:**
  - Buna N standard;
  - Viton® and EPR optional
- **Carrying Handle:**
  - Electronic Case & Cover:
    - Cold rolled steel; zinc plate with clear seal, epoxy black paint
- **Battery:**
  - 4 AA size alkaline,
  - ~ 50 hours of service
- **Ports:**
  - SAE Straight thread O-ring boss, female J1926/1

---

*Viton is a registered trademark of DuPont Dow Elastomers.*
**PFM6BD Bi-Directional Hydraulic Tester**  
Simultaneously Measures Flow, Pressure and Temperature

**DIMENSIONS**

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>NOMINAL PORT SIZE</th>
<th>FLOW RANGE</th>
<th>MODEL NUMBER</th>
<th>STD or CE MODEL</th>
<th>PRESSURE GAUGE UNITS OF MEASURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFM6BD-60</td>
<td>SAE 16</td>
<td>3 - 60 GPM (12 - 227 LPM)</td>
<td>F5082 * - XXX</td>
<td>Leave blank for standard model or CE for CE option</td>
<td>PSI, BAR, MPA, KG/CM2</td>
</tr>
<tr>
<td>PFM6BD-85</td>
<td>SAE 16</td>
<td>4 - 85 GPM (15 - 321 LPM)</td>
<td>F5083 * - XXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PFM6BD-200</td>
<td>SAE 24</td>
<td>7 - 199.9 GPM (26 - 757 LPM)</td>
<td>F5084 * - XXX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Examples:

**F5083-PSI** = PFM6BD-85  
SAE 16 ports  
4 - 85 GPM (15 - 321 LPM)  
Standard model  
PSI pressure units

**F5082 CE-PSI** = PFM6BD-60  
SAE 16 ports  
3 - 60 GPM (12 - 227 LPM)  
CE certified  
PSI pressure units

**ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DESCRIPTION</th>
<th>SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>F4934-6085</td>
<td>Carrying Case</td>
<td>PFM6BD-60 &amp; PFM6BD-85</td>
</tr>
<tr>
<td>F4934-200</td>
<td>Carrying Case</td>
<td>PFM6BD-200</td>
</tr>
<tr>
<td>F1614-7500</td>
<td>Pressure Relief Disc, 7500 PSI (2 per Tester)</td>
<td>All PFM6BDs</td>
</tr>
<tr>
<td>F001109</td>
<td>5-Point Calibration Certificate¹</td>
<td>All PFM6BDs</td>
</tr>
<tr>
<td>F001110</td>
<td>10-Point Calibration Certificate¹</td>
<td>All PFM6BDs</td>
</tr>
</tbody>
</table>

¹ Certificates are traceable to NIST, ISO 9001.

**REV 08/10**

---

**DEPENDABLE CUSTOMER SERVICE**

Fax 800-245-3569