Bourdon Tube Pressure Gauges
Solid-Front Test Gauge - Direct Drive
Type 332.34DD

Applications
- Where high dynamic pressure pulsations, vibration, or shock are present
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical, petrochemical, refining, power stations, mining, environmental technology, mechanical engineering and plant construction

Special Features
- Excellent load-cycle stability and shock resistance
- Movement-less direct drive Bourdon tube
- Positive pressure ranges up to 10,000 psi (700 bar)
- All ranges can withstand full vacuum
- Calibration certificate, traceable to NIST
- Helium leak tested

Specifications

**Design**
ASME B40.100

**Sizes**
4½" (115 mm) dial size

**Accuracy class**
± 0.25% of span (ASME B40.100 Grade 3A)
± 0.50% of span (ASME B40.100 Grade 2A) for all vacuum/compound ranges and range 0/10,000 psi (700 bar)

**Ranges**
Vacuum / Compound to 300 psi (20 bar)
Pressure from 0/30 psi (20 bar) to 0/10,000 psi (700 bar)
or other equivalent units of pressure or vacuum

**Working pressure**
Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.5 x full scale value

**Temperature error**
Additional error when temperature changes from reference temperature of 68°F (20°C): ±0.4% of full span for every 18°F (10°K) rising or falling.

**Weather protection**
Weather resistant (NEMA 3 / IP54)

**Pressure connection**
Material: 316 SS
Lower mount (LM) and lower back mount (LBM)
¼" or ½" NPT

**Bourdon tube / wetted parts**
Material: Inconel X-750
316 SS socket & capillary
All connection micro-brazed, welded & helium leak tested

**Filter**
Porous metal disk - 316 SS
Porosity: 25 to 50 microns

**Dial**
White aluminum with mirror band, black lettering
Mirror band dial - aluminum substrate with white polyester film and black lettering
**Pointer**
Black aluminum, adjustable, knife edge

**Case**
Red fiberglass-reinforced thermoplastic (PBTP)
Solid front, blowout back
Turret-style case with built in rear flange lugs

**Window**
Clear acrylic with Buna-N gasket
External zero adjustment screw located on window

**Optional extras**
- Safety Glass (gauge will not come with external zero adjustment)
- Viton Isolator for connection (not recommended for gases or vacuum service)
- EPDM Isolator for connection (not recommended for gases or vacuum service)
- Filter - 316 SS porous metal disk - 25 to 50 microns (one included with each gauge)
- Oxygen cleaned to ASME B40.100 Level IV
- Other pressure connections
- Other pressure scales (bar, KPa, MPa, kg/cm² and dual scales)
- Custom dial layout
- Panel mounting kit (field assembly)
- NEMA 4 / IP65 weather protection
- Diaphragm seals

**Dimensions**

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5”</td>
<td>mm</td>
<td>128</td>
<td>103</td>
<td>84</td>
<td>120.3</td>
<td>6.3</td>
<td>40</td>
<td>28.5</td>
<td>148</td>
<td>136.5</td>
<td>25</td>
<td>12.5</td>
<td>22</td>
<td>2 lb.</td>
</tr>
<tr>
<td>in</td>
<td>5</td>
<td>4.06</td>
<td>3.31</td>
<td>4.74</td>
<td>0.248</td>
<td>1.57</td>
<td>1.12</td>
<td>5.83</td>
<td>5.37</td>
<td>0.99</td>
<td>0.49</td>
<td>“½”</td>
<td>0.87</td>
<td>2 lb.</td>
</tr>
</tbody>
</table>

* Or ½”
¹ Weight without optional accessories