Bourdon Tube Pressure Gauges
Economical Stainless Steel Gauge
Type 132.53 - Dry Case
Type 133.53 - Liquid-filled Case

Applications
- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features
- All stainless steel construction
- Economical design
- Positive pressure ranges to 15,000 PSI (1000 bar)

Specifications

Design
ASME B40.100 & EN 837-1

Sizes
4” (100mm)

Accuracy class
± 3/2/3% of span (ASME B40.100 Grade B)

Ranges
Pressure from 30 psi (2 bar) to 15,000 psi (1,000 bar) or other equivalent units of pressure

Working pressure
Steady: 3/4 scale value
Fluctuating: 2/3 full scale value
Short time: full scale value

Operating temperature
Ambient: -40°F to +140°F (-40°C to +60°C) - dry
-4°F to +140°F (-20°C to +60°C) - glycerine filled
-40°F to +140°F (-40°C to +60°C) - silicone filled
Medium: +212°F (+100°C) maximum

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

Weather protection
Weather tight (NEMA 4X / IP66)

Pressure connection
Material: 316L stainless steel
Lower mount (LM)
1/4” or 1/2” NPT

Bourdon tube
Material: 316L stainless steel
≤ 1,000 PSI (70 bar): C-chape
> 1,000 PSI (70 bar): Helical

Movement
Stainless steel

Dial
White aluminum with black lettering

Pointer
Black aluminum, non-adjustable

Case
304 stainless steel with vent plug and SS polished crimp ring.
Case welded to pressure connection.

Window
Polycarbonate with Buna-N gasket
Case fill
Glycerine 99.7% (Type 133.53)

Optional extras
- Other pressure connections
- Customer dial layout
- Rear flange, SS
- Stainless steel restrictor
- Silicone or Fluorolube case filling
- Other pressure scales available:
  - bar, kPa, mPa, Kg/cm² and dual scales

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>J</th>
<th>M</th>
<th>N</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>100</td>
<td>87</td>
<td>39</td>
<td>100</td>
<td>15.5</td>
<td>4.8</td>
<td>132</td>
<td>116</td>
<td>8</td>
<td>22</td>
<td></td>
<td>1.10 lb.</td>
</tr>
<tr>
<td>in</td>
<td>4</td>
<td>3.43</td>
<td>1.53</td>
<td>3.94</td>
<td>0.61</td>
<td>0.19</td>
<td>5.20</td>
<td>4.57</td>
<td>0.31</td>
<td>1/2”</td>
<td>0.87</td>
<td></td>
</tr>
</tbody>
</table>

¹ Weight without optional accessories