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

Special features
- All stainless steel construction
- Economical design
- Positive pressure ranges to 15,000 PSI

Standard Features
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 to 15,000 psi
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% for every 18°F (10°C) rising or falling. Percentage of span.

Weather protection
Weather resistant (NEMA 3 / IP 54) - dry case
Weather tight (NEMA 4X / IP65) - filled case

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

Bourdon tube
Material: 316L stainless steel
≤ 1,000 PSI: C-type
≥ 1,500 PSI: helical type

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
Acrylic 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

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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&quot; mm</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>
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</tr>
<tr>
<td>4&quot; 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&quot;</td>
<td>0.87</td>
<td>1.10 lb.</td>
</tr>
</tbody>
</table>

¹ Weight without optional accessories