Bourdon Tube Pressure Gauges
Industrial Series Gauge
Type 212.20 - Dry Case
Type 213.20 - Liquid-filled Case

Applications
- Sturdy industrial pressure gauges designed in compliance with operational safety requirements of EN 837-1 and ASME B40.100
- Reliable pressure gauge for machine and plant construction industry
- Suitable for gaseous or liquid media that will not obstruct the pressure system or attack copper alloy parts

Special features
- Long service life, robust
- Cost effective and reliable
- Pressure ranges up to 20,000 psi

Standard Features

Design
ASME B40.100 & EN 837-1

Sizes
6” (160 mm)

Accuracy class
± 1% of span (ASME B40.100 Grade 1A)

Ranges
Vacuum / Compound to 200 psi
Pressure from 15 psi to 20,000 psi or other equivalent units of pressure or vacuum

Working pressure
Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x 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: +180°F (+80°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
Weathertight (NEMA4X / IP65) - liquid filled case

Pressure connection
Material: copper alloy
Lower mount (LM) or lower back mount (LBM)
1/2” NPT

Bourdon tube
Material: copper alloy
≤ 1,000 PSI: C-type, copper alloy - soft soldered
≥ 1,500 PSI: helical type, 316L SS - brazed

Movement
Copper alloy with nickel-alloy wearable parts

Dial
White aluminum with black lettering

Pointer
Black aluminum

Case
304 stainless steel with stainless steel bayonet ring

Window
Flat instrument glass
Case fill
Glycerine 99.7% - Type 213.20

Optional extras
- Brass restrictor
- Stainless steel front or rear flange
- U-clamp panel mounting
- Integral alarm contacts
- Extended media temperature to +392°F (+200°C)
- Special connections limited to wrench flat area
- Custom dial layout
- 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>C¹</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>mm</td>
<td>160</td>
<td>116</td>
<td>49.5</td>
<td>159</td>
<td>15.5</td>
<td>81</td>
<td>50</td>
<td>5.8</td>
<td>3</td>
<td>196</td>
<td>178</td>
<td>5</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>6”</td>
<td>in</td>
<td>6.0</td>
<td>4.57</td>
<td>1.95</td>
<td>6.26</td>
<td>0.61</td>
<td>3.19</td>
<td>1.97</td>
<td>0.23</td>
<td>0.12</td>
<td>7.72</td>
<td>7.0</td>
<td>0.20</td>
<td>1/2”</td>
<td>0.86</td>
</tr>
</tbody>
</table>

¹ For LM range 20,000 psi and LBM ranges above 1,000 psi, C dimension changes to 66.5 mm / 2.58”

Recommended panel cutout is dimension D + 1.5 mm