Bourdon Tube Pressure Gauges
Hinged Ring Process Gauge - Brass Wetted Parts
Type 212.25

Applications

- Pressure monitoring panels
- Suitable for gaseous or liquid media that will not obstruct the pressure system or attack copper alloy parts
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features

- Hinged ring for access to adjustable pointer
- Durable aluminum case and ring
- Positive pressure ranges to 1,000 psi (70 bar)

Specifications

**Design**
ASME B40.100

**Sizes**
4½” & 6” (115 & 160 mm) dial size

**Accuracy class**
± 0.5% of span (ASME B40.100 Grade 2A)

**Ranges**
Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (1 bar) to 1,000 psi (70 bar) or other equivalent units of pressure or vacuum

**Working pressure**
Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value

**Operating temperature**
Ambient: -40°F to +140°F (-40°C to +60°C)
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 resistant (NEMA 3 / IP54)

**Pressure connection**
Material: copper alloy
Lower back mount (LBM)
1/4” or 1/2” NPT with M4 internal tap

**Bourdon tube**
Material: copper alloy
C-type

**Movement**
Stainless steel. Internal stop pin at 1.1 x full scale

**Dial**
White aluminum with black lettering, stop pin at 6 o’clock

**Pointer**
Black aluminum, adjustable

**Case**
Black-painted aluminum with 3 threaded mounting bolts. Solid front, blowout back safety case. 304 stainless steel blowout back plate

**Hinged ring**
Black-painted steel with knurled clamping screw
Window
Flat instrument glass with silicone rubber gasket

Mounting bolts
10-24 UNC threads - 4½"
1/4-20 UNC threads - 6"

Optional extras
- Threaded restrictor
- Cleaned for oxygen service
- Safety glass window (4½" size only)
- Special process connections
- Custom dial layout

Dimensions

Front view
4½" side view
6" side view

Rear view

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>H</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
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</thead>
<tbody>
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<td>4.5&quot;</td>
<td>154.7</td>
<td>68.6</td>
<td>120</td>
<td>35</td>
<td>41.4</td>
<td>27.4</td>
<td>17</td>
<td>19</td>
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<td>68.32</td>
<td>22</td>
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<tr>
<td>6&quot;</td>
<td>192</td>
<td>68.6</td>
<td>120</td>
<td>35</td>
<td>41.4</td>
<td>27.4</td>
<td>17</td>
<td>19</td>
<td>159</td>
<td>88.9</td>
<td>22</td>
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Recommended panel cutout
4½": dimension C + 1.5 mm
6": dimension R + 1.5 mm