Bourdon Tube Pressure Gauges
Hinged Ring Test Gauge - Brass Wetted Parts
Type 312.25

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

Special features

- Hinged ring for access to adjustable knife edge pointer
- Durable aluminum case and ring, mirror band dial
- Positive pressure ranges to 600 psi

Standard features

Design
ASME B40.100

Sizes
4½” (115) dial size

Accuracy class
± 0.25% of span (ASME B40.100 Grade 3A)

Ranges
Vacuum / Compound to 200 psi
Pressure from 15 psi to 600 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)
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 / 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 1.3 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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>4.5&quot;</td>
<td>mm</td>
<td>154.7</td>
<td>68.6</td>
<td>120</td>
<td>35</td>
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<td>27.4</td>
<td>17</td>
<td>19</td>
<td>-</td>
<td>68.32</td>
<td>22</td>
<td>2.69</td>
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<td></td>
<td>in</td>
<td>6.09</td>
<td>2.70</td>
<td>4.73</td>
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<td>1.08</td>
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<td>0.75</td>
<td>-</td>
<td>2.69</td>
<td>1/4&quot;</td>
<td>0.87</td>
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Recommended panel cutout
4½": dimension C + 1.5 mm