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

Special features
- Hinged ring for access to adjustable pointer
- Durable aluminum case and ring
- Positive pressure ranges to 1,000 psi

Standard Features

Design
ASME B40.100

Sizes
4½" & 6" (115 & 147 mm) dial size

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

Ranges
Vacuum / Compound to 200 psi
Pressure from 15 psi to 1,000 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)
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

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**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>
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<td>68.6</td>
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<td>2.69</td>
<td>1/4&quot;</td>
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<td>mm</td>
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<td>68.6</td>
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<td>1.08</td>
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<td>0.75</td>
<td>6.26</td>
<td>3.5</td>
<td>1/2&quot;</td>
<td>0.87</td>
<td>3.0 lb.</td>
</tr>
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</table>

Recommended panel cutout
- 4½": dimension C + 1.5 mm
- 6": dimension R + 1.5 mm

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Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
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.