Bourdon Tube Pressure Gauges
Hinged Ring Process Gauge - 316SS Wetted Parts
Type 232.25

Applications
- Pressure monitoring panels
- Suitable for corrosive gaseous or liquid media that will not clog the pressure system or attack 316L SS 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 20,000 psi (1600 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)
± 1.0% of span (ASME B40.100 Grade 1A)
(for range of 20,000 psi)

Ranges
Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (1 bar) to 20,000 psi (1600 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: 316L stainless steel
Lower back mount (LBM) 1/4" or 1/2" NPT with M4 internal tap

Bourdon tube
Material: 316L stainless steel
≤ 1,000 psi (70 bar): C-shape
> 1,000 psi (70 bar): Helical

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>
</tr>
</thead>
<tbody>
<tr>
<td>4½”</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>
<td>-</td>
<td>68.32</td>
<td>22</td>
<td>2.5 lb.</td>
<td></td>
</tr>
<tr>
<td>6”</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>
<td>3.0 lb.</td>
<td></td>
</tr>
</tbody>
</table>

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