Bourdon Tube Pressure Gauges
Solid-Front Process Gauge - Direct Drive
Type 232.34DD

Applications

- Where high dynamic pressure pulsations, vibration, or shock are present
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical, petrochemical, refining, power stations, mining, environmental technology, mechanical engineering and plant construction

Product Features

- Excellent load-cycle stability and shock resistance
- Movement-less direct drive Bourdon tube
- Positive pressure ranges to 20,000 psi
- Full vacuum safe
- Helium leak tested

Specifications

Design
ASME B40.100

Sizes
4½” (115 mm) dial size

Accuracy class
± 0.5% of span (ASME B40.100 Grade 2A)
Ranges 0/10,000 psi and up ± 1% of span (ASME B40.100 Grade 1A)

Ranges
Vacuum / Compound to 300 psi (20 bar)
Pressure from 0/30 psi (2 bar) to 0/20,000 psi ¹)

Working pressure
Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.5 x full scale value

Operating temperature
Ambient: -65°F to +190°F (-54°C to +88°C)
Medium: -65°F to +400°F (-54°C to +200°C)

¹) Accuracy of range 0/20,000 psi ± 2% of full span

Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.4% of full span for every 18°F (10°K) rising or falling.

Weather protection
Weather resistant (NEMA 3 / IP54)

Pressure connection
Material: 316 SS
Lower mount (LM) and lower back mount (LBM)
¾” or ½” NPT

Bourdon tube / wetted parts
Material: Inconel X-750
Silicone dampened coil
316L SS socket & capillary
All connection micro-brazed, welded & helium leak tested

Filter
Porous metal disk - 316 SS
Porosity: 25 to 50 microns

Dial
White aluminum with black lettering and stop-pin at 6 o’clock
### Pointer
Black aluminum, micro-adjustable

### Case
Yellow fiberglass-reinforced thermoplastic (PBTP)
Solid front, blowout back
Turret-style case with built in rear flange lugs

### Window
Clear acrylic with Buna-N gasket
External zero adjustment screw located on window

### Optional extras
- Safety glass (gauge will not come with external zero adjustment)
- Viton isolator for connection (not recommended for gases or vacuum service)
- EPDM isolator for connection (not recommended for gases or vacuum service)
- Filter - 316 SS porous metal disk - 25 to 50 microns (one included with each gauge)
- Oxygen cleaned to ASME B40.100 Level IV
- Other pressure connections
- Other pressure scales (bar, KPa, MPa, kg/cm² and dual scales)
- Custom dial layout
- Panel mounting kit (field assembly)
- NEMA 4 / IP65 weather protection
- Diaphragm seals

### Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>Weight¹</th>
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<td>4.5&quot;</td>
<td>mm</td>
<td>128</td>
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<td>28.5</td>
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<td>22</td>
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<tr>
<td></td>
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<td>3.31</td>
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<td>1.12</td>
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<td>5.37</td>
<td>0.99</td>
<td>0.49</td>
<td>“½”</td>
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* Or ¼”
¹ Weight without optional accessories

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