Bourdon Tube Pressure Gauges
Solid-Front Test Gauge - Direct Drive
Type 332.34DD

Applications

- Test gauge accuracy for rough service conditions that include severe shock and vibration
- 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

Special features

- Excellent load-cycle stability and shock resistance
- Movement-less direct drive Bourdon tube
- Positive pressure ranges to 10,000 psi
- Calibration certificate

Standard Features

Design
ASME B40.100

Sizes
4½” (115 mm) dial size

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

Ranges
Vacuum / Compound to 300 psi
Pressure from 30 psi to 10,000 psi
or other equivalent units of pressure or vacuum

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

Operating temperature
Ambient: -65°F to +190°F
Medium: -65°F to +400°F

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: 316 SS
Lower mount (LM) and lower back mount (LBM)
1/4" or 1/2" NPT

Bourdon tube / wetted parts
Material: Inconel X-750
316 SS socket & capillary
All connection micro-brazed

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

Dial
White aluminum with mirror band, black lettering
Mirror band dial - aluminum substrate with white polyester film and black lettering

Pointer
Black aluminum, adjustable, knife edge
External zero adjustment
Adjustment screw located on window
**Case**
Black thermoplastic
Solid front, blowout back
Turret-style case with built in rear flange lugs

*For 10,000 psi range accuracy changes to +/- 0.25% of span upscale and +/- 0.5% of span downscale*

**Window**
Polycarbonate

**Optional extras**
- Tempered 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 - 50 to 100 microns

- 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

**Dimensions**

<table>
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<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>W</th>
<th>Weight¹</th>
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<tr>
<td>4.5”</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.3 lb.</td>
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¹ Weight without optional accessories
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.

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Size

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<td>4.5&quot;</td>
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<td>43.18</td>
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<td>4.69</td>
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<td>1.11</td>
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<td>5.375</td>
<td>0.83</td>
<td>0.278</td>
<td>1.3 lb.</td>
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¹ Weight without optional accessories