Bourdon Tube Pressure Gauge
Type 113.13 - ABS Case with Liquid Filling
Standard Series

Applications
- Intended for severe service conditions where pulsation or vibration exist
- Suitable for all gaseous and liquid media that will not obstruct the pressure system or attack copper alloy parts
- Hydraulic systems and compressors

Special features
- Vibration and shock resistant
- Ranges up to 6,000 psi
- Reliable and economical

Standard Features

Design
EN 837-1 & ASME B40.100

Sizes
1½", 2" & 2½" (40, 50 & 63 mm)

Accuracy class
± 3/2/3% of span (ASME B40.100 Grade B)

Ranges (All ranges not stocked)
Vacuum / Compound to 200 psi
Pressure from 15 psi to 6,000 psi

Working pressure
Steady: 3/4 of full scale value
Fluctuating: 2/3 of full scale value
Short time: full scale value

Operating temperature
Ambient: -4°F to 140°F (-20°C to 60°C)
Media: 140°F (+60°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 tight (IP 65), NEMA 4X

Pressure connection
Material: copper alloy
1½" or ¾" NPT (¾" not available in 1½" case size)
Lower mount (LM) or center back mount (CBM)
(1½" size only available with CBM connection)

Bourdon tube
Material: copper alloy
30" Hg (Vac) to 800 psi C-type
1000 psi to 6000 psi helical type

Movement
Copper Alloy

Dial
White ABS with stop pin and black lettering

Pointer
Black ABS

Case
1½": black ABS
2" & 2½": black ABS with integral profile ring
O-ring seal between case and socket
Ranges < 100 psi with internal pressure compensation

Window
Acrylic, ultrasonically welded to case

Case fill
Glycerine 99.7%
Optional Extras

- Front flange
- U-clamp bracket (CBM only)
- Brass restrictor
- Special threaded connection
- Custom dial layout
- Other pressure scales available:
  bar, kPa, MPa, kg/cm² and dual scales

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>G</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>1.5&quot; mm</td>
<td>40</td>
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<td>26.5</td>
<td>41</td>
<td>-</td>
<td>42.5</td>
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<tr>
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<td>29</td>
<td>51</td>
<td>11.5</td>
<td>48.5</td>
<td>3.6</td>
<td>55</td>
<td>4</td>
<td>71</td>
<td>62</td>
<td>58</td>
<td>6</td>
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<td>14</td>
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<tr>
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<td>0.23</td>
<td>1/4&quot;</td>
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<td>0.40 lb.</td>
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<tr>
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<td>3.6</td>
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<td>0.50 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.