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
1½": ± 3/2/3% of span (ASME B40.100 Grade B)
2" & 2½": ± 2/1/2% of span (ASME B40.100 Grade A)

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
1/8" or 1/4" NPT
Lower mount (LM) or center back mount (CBM)
(1½" size only available with CBM connection)

Bourdon tube
Material: copper alloy
30 psi to 600 psi C-type
800 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 or rear 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>ABCDEGJKLMNRTSW</th>
<th>Weight¹</th>
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</thead>
<tbody>
<tr>
<td>1.5”</td>
<td>mm 40 - 26.5 41 - 42.5 - - - - - - - - - - - - -</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>in 1.5 - 1.04 1.61 - 1.67 - - - - - - - - - - - - -</td>
<td>1/8” 0.47 0.30 lb.</td>
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<tr>
<td>2”</td>
<td>mm 50 48 29 51 11.5 48.5 3.6 55 4 71 62 58 6</td>
<td>14</td>
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<tr>
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<td>in 2.0 1.89 1.14 2.01 0.45 1.91 0.14 2.17 0.16 2.80 2.44 2.28 0.23 1/4” 0.55 0.40 lb.</td>
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<tr>
<td>2.5”</td>
<td>mm 63 54 29 63 11.5 54 3.6 68 4 85 75 72 6</td>
<td>14</td>
</tr>
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<td>in 2.5 2.13 1.14 2.48 0.45 2.12 0.14 2.68 0.16 3.35 2.95 2.83 0.23 1/4” 0.55 0.50 lb.</td>
<td></td>
</tr>
</tbody>
</table>

¹ Weight without optional accessories