Bourdon Tube Pressure Gauge Type 111.11 Compressed Gas Regulator Gauge Standard Series

Applications

- Compressed gas regulators
- Beverage dispensing machines
- Suitable for all media that will not obstruct the pressure system or attack copper alloy parts

Special features

- UL-listed (UL-252a or UL-404)
- Polished brass or gold-painted steel case
- Cleaned for use in oxygen service

Standard features

Design
ASME B40.100

Sizes
1½”, 2” & 2½” (41, 53 & 68 mm)

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

Ranges
Vacuum / Compound to 200 psi
Pressure from 15 psi to 6,000 psi
or other equivalent units of pressure or vacuum

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

Operating temperature
Ambient: -40°F to 140°F (-40°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.

Pressure connection
Material: Copper-Alloy
Lower Mount (LM): 1½”, 2” and 2½”
Center Back Mount (CBM): 1½” and 2”
1/8” NPT, ¼” NPT, limited to wrench flat area

Bourdon Tube
Material: copper alloy
15 psi to 600 psi: C-type (low copper content)
800 psi to 6,000 psi: helical

Movement
Copper alloy

Dial
White aluminum with stop pin and black lettering “USE NO OIL” in red

Pointer
Black aluminum, non-adjustable

Case
1½”: gold-painted steel
2” & 2½”: polished brass or gold-painted steel

Window
Twist-lock clear polycarbonate

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Optional Extras

- Brass restrictor (Std. for ranges 1,500 psi and higher)
- Special case colors
- Nickel-plated socket
- Chrome-plated steel case
- Chrome-plated ABS case
- Black ABS case
- Stainless steel case (2” size only)
- Special threaded connection
- Custom dial layout
- Heat sealed bag, thread cap and “oxygen cleaned” label
- Other pressure scales available:
  - bar, kPa, MPa, kg/cm² and dual scales

Dimensions - 1½”, 2” and 2½” Lower Mount (LM)

<table>
<thead>
<tr>
<th>Size</th>
<th>A³</th>
<th>B</th>
<th>C¹</th>
<th>D</th>
<th>E¹</th>
<th>F</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5”</td>
<td>41</td>
<td>36.6</td>
<td>24</td>
<td>42.9</td>
<td>9</td>
<td>40</td>
<td>-</td>
<td>12</td>
<td>0.14 lb</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>1.5</td>
<td>1.44</td>
<td>0.94</td>
<td>1.69</td>
<td>0.35</td>
<td>1.57</td>
<td>1/8”</td>
<td>0.47</td>
</tr>
<tr>
<td>2”</td>
<td>53</td>
<td>54</td>
<td>29</td>
<td>58</td>
<td>10.5</td>
<td>53.5</td>
<td>-</td>
<td>14</td>
<td>0.24 lb</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>2.0</td>
<td>2.12</td>
<td>1.14</td>
<td>2.28</td>
<td>0.42</td>
<td>2.11</td>
<td>1/4”</td>
<td>0.55</td>
</tr>
<tr>
<td>2.5”</td>
<td>68</td>
<td>60</td>
<td>31</td>
<td>72.4</td>
<td>12</td>
<td>67.6</td>
<td>-</td>
<td>14</td>
<td>0.33 lb</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>2.5</td>
<td>2.36</td>
<td>1.22</td>
<td>2.85</td>
<td>0.47</td>
<td>2.66</td>
<td>1/4”</td>
<td>0.55</td>
</tr>
</tbody>
</table>

¹ For 2½” painted steel case, C dimension changes to 1.14” (29 mm), and E dimension changes to 0.35” (9 mm)
### Dimensions - 1½” Center Back Mount (CBM)

<table>
<thead>
<tr>
<th>Size</th>
<th>A* (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>T (in)</th>
<th>W (sq in)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5” in</td>
<td>41</td>
<td>24</td>
<td>40.6</td>
<td>42.9</td>
<td>40.6</td>
<td></td>
<td>12</td>
<td>0.14 lb</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>0.94</td>
<td>1.60</td>
<td>1.69</td>
<td>1.6</td>
<td>1/8”</td>
<td>0.47</td>
<td>0.14 lb</td>
</tr>
</tbody>
</table>

### Dimensions - 2” Center Back Mount (CBM)

<table>
<thead>
<tr>
<th>Size</th>
<th>A (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>G (mm)</th>
<th>S (mm)</th>
<th>T (in)</th>
<th>W (sq in)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” in</td>
<td>57.8</td>
<td>29</td>
<td>50.7</td>
<td>48.3</td>
<td>11</td>
<td></td>
<td>14</td>
<td>0.24 lb</td>
</tr>
<tr>
<td></td>
<td>2.275</td>
<td>1.14</td>
<td>2</td>
<td>1.9</td>
<td>0.43</td>
<td>1/8” or 1/4”</td>
<td>0.44</td>
<td></td>
</tr>
</tbody>
</table>