Bourdon Tube Pressure Gauges
Dry or Liquid Filled Gauge with SAE Connection
Type 212.53S - Dry Case
Type 213.53S - Liquid-filled Case

Applications
- Intended for adverse service conditions where pulsating or vibration exists (with liquid filling)
- Hydraulics & compressors
- Suitable for gaseous or liquid media that will not obstruct the pressure system

Product features
- Vibration and shock resistant (with liquid filling)
- 7/16" -20 SAE connection
- Pressure ranges up to 15,000 psi

Specifications
Design
ASME B40.100 & EN 837-1

Sizes
2½" (63 mm)

Accuracy class
± 2/1/2% of span (ASME B40.100 Grade A)

Ranges
Vacuum / Compound to 200 psi (16 bar)
Pressure from 15 psi (1 bar) to 15,000 psi (1000 bar)
or other equivalent units of pressure or vacuum

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

Operating temperature
Ambient: -40°F to +140°F (-40°C to +60°C) - dry
-4°F to +140°F (-20°C to +60°C) - glycerine filled
-40°F to +140°F (-40°C to +60°C) - silicone filled
Medium: +140°F (+60°C) maximum

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

Weather protection
Weather tight (NEMA 4X / IP 66)

Pressure connection
Material: copper alloy
Lower mount (LM)
7/16" - 20 SAE with o-ring, washer and lock nut

Bourdon tube
Material: copper alloy
≤ 870 psi (60 bar): C-shape
> 870 psi (60 bar): Helical type

Movement
Copper alloy

Dial
White ABS with stop pin and with black lettering

Pointer
Black aluminum
Case
304 stainless steel with vent plug and stainless steel crimp ring. Suitable for liquid filling. Case connection sealed with EPDM o-ring (glycerine filled) or Viton o-ring (dry or silicone filled).

Window
Polycarbonate with Buna-N gasket

Case fill
Glycerine 99.7% - Type 213.53S

Optional extras
- Brass restrictor
- External zero adjustment (2½” only)
- Red drag pointer or mark pointer
- Silicone or Halocarbon Oil case filling
- 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>E</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5”</td>
<td>mm</td>
<td>69</td>
<td>61.2</td>
<td>31</td>
<td>13</td>
<td>6</td>
<td>14</td>
<td>0.38 lb. dry</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>2.69</td>
<td>2.41</td>
<td>1.23</td>
<td>0.51</td>
<td>0.24</td>
<td>7/16-20</td>
<td>0.46 lb. filled</td>
</tr>
</tbody>
</table>