Capsule pressure gauge, copper alloy or stainless steel
Process Gauge, safety version per ASME B40.100
Models 612.34, 632.34 and 633.34

Applications
- Process industry: Plant construction, chemical industry, petrochemical industry, power plants, mining, on-/offshore and environmental technology
- For gaseous, dry and aggressive media, also in aggressive environments

Special features
- Safety version with solid baffle wall designed in compliance with the requirements and test conditions of ASME B 40.100
- Low scale ranges from 0 ... 25 mbar to 0 ... 600 mbar
- Nominal size 4 ½” (115 mm)
- Robust, glass-fibre reinforced case from POCAN®

Description
The models 612.34, 632.34 and 633.34 are high-quality capsule pressure gauges and have been designed especially for increased safety requirements within the process industry.

The capsule measurement principle is particularly suitable for low pressures. On pressurisation, the expansion of the capsule element, proportional to the incident pressure, is transmitted to the movement and indicated.

The glass-fibre reinforced POCAN® case offers the necessary stability for reproducible measurements, even under aggressive ambient conditions.

With the model 633.34, a case filling with silicone oil enables use in applications with highly dynamic pressure loads and vibration.
**Standard version**

**Design**
Per ASME B40.100

**Nominal size in mm**
4 ½” (115 mm)

**Accuracy class**
Grade A per ASME B40.100
(corresponds to indication accuracy ±2.5 %)

**Scale ranges**
0 ... 25 mbar to 0 ... 600 mbar
or all other equivalent vacuum or combined pressure and vacuum ranges

**Pressure limitation**
Steady: Full scale value
Fluctuating: 0.9 x full scale value

**Permissible temperature**
Ambient: -20 ... +60 °C (-4 ... 140 °F)
Medium: ≤ 100 °C (212 °F)

**Temperature effect**
When the temperature at the measuring system deviates from the reference temperature +20 °C (+68 °F): max. ±0.6 %/10 K of full scale value

**Ingress protection**
NEMA 3 (IP54 per EN/IEC 60529)

**Process connection**
Model 612.34: Copper alloy
Model 632.34: Stainless steel 316L
Lower mount, ¼ NPT or ½ NPT (male)

**Pressure element**
Model 612.34: Copper alloy
Model 632.34: Stainless steel

**Movement**
Model 612.34: Copper alloy
Model 632.34: Stainless steel

**Dial**
Aluminium, white, black lettering, pointer stop pin at 6 o'clock

**Pointer**
Aluminium, black, adjustable pointer

**Case**
POCAN® (thermoplastic), black, with solid baffle wall (Solid-front) and blow-out back, surface mounting flange integrated on the rear

**Window**
Clear non-splintering plastic, sealing from NBR

**Ring**
Threaded bezel, POCAN®, black

**Options**
- Restrictor screw in the pressure port
- Overload safety:
  - 3 times for scale range 0 ... 25 mbar
  - 10 times for scale ranges > 0 ... 25 mbar
- Adapter kit for panel mounting
- Window: Instrument glass or laminated safety glass
- Other process connection
- Dial layout to customer requirements
- Case filling with silicone oil M50 for scale ranges from 0 ... 100 mbar
## Dimensions

### Dimensions in mm

<table>
<thead>
<tr>
<th>a</th>
<th>b₁</th>
<th>D</th>
<th>d₁</th>
<th>d₂</th>
<th>d₃</th>
<th>G</th>
<th>h ± 1</th>
<th>s₁</th>
<th>s₂</th>
<th>SW</th>
<th>Weight ²) in kg</th>
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<tbody>
<tr>
<td>40</td>
<td>84</td>
<td>128</td>
<td>136.5</td>
<td>148</td>
<td>6.3</td>
<td>½ NPT</td>
<td>103.5</td>
<td>12.5</td>
<td>25</td>
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<td>0.9</td>
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### Dimensions in inch

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<th>D</th>
<th>d₁</th>
<th>d₂</th>
<th>d₃</th>
<th>G</th>
<th>h ± 0.04</th>
<th>s₁</th>
<th>s₂</th>
<th>SW</th>
<th>Weight ²) in lbs</th>
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<td>3.31</td>
<td>5.04</td>
<td>5.374</td>
<td>5.827</td>
<td>0.248</td>
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<td>4.075</td>
<td>0.492</td>
<td>0.984</td>
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1) SW = spanner width  
2) Weight without optional accessories
Approvals

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Certificates (option)

- 2.2 test report
- 3.1 material certificate for the wetted parts (only model 632.34)

Approvals and certificates, see website

Ordering information
Model / Scale range / Process connection / Options