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 ⅜" (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 or vacuum safety with scale ranges < 40 mbar: 3 x full scale value scale ranges ≥ 40 mbar: 10 x full scale value
- 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>
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<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>
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#### Dimensions in inch

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<thead>
<tr>
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<th>b₁</th>
<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>
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<td>3.31</td>
<td>5.04</td>
<td>5.374</td>
<td>5.827</td>
<td>0.248</td>
<td>½ NPT</td>
<td>4.075</td>
<td>0.492</td>
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<td>0.866</td>
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1) SW = spanner width
2) Weight without optional accessories
## Approvals

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<td>Russia</td>
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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

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