## Diaphragm Pressure Gauges
### Process Industry Series Sealgauge® - Solid Front Case
#### Type 432.36 - Dry Case
#### Type 433.36 - Liquid-filled case

### Applications
- With liquid filled case optional for applications with high dynamic pressure pulsations or vibration and overpressure
- Suitable in corrosive environments for gaseous, liquid or highly viscous media
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction
- Ideally for applications in the water/wastewater industry

### Product features
- Wide selection of special wetted materials
- All stainless steel construction, solid-front case
- High overpressure safety up to 6,000 psi (400 bar)
- Ranges from 6" H₂O (16 mbar)

### Specifications

<table>
<thead>
<tr>
<th>Design</th>
<th>EN 837-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sizes</strong></td>
<td>4&quot; &amp; 6&quot; (100 &amp; 160 mm)</td>
</tr>
<tr>
<td><strong>Accuracy class</strong></td>
<td>±1.5% of span</td>
</tr>
</tbody>
</table>
| **Ranges** | Vacuum/Compound to 600 psi (40 bar)  
Pressure from 6" H₂O (16 mbar) to 100" H₂O (250 mbar),  
6" (160 mm) flange diameter¹  
Pressure from 6 psi (400 mbar) to 600 psi (40 bar),  
4" (100 mm) flange diameter or other equivalent units of pressure or vacuum |
| **Flange diameter for overpressure safety up to 6000 psi (400 bar) - see page 2** |
| **Working pressure** | Steady: full scale value  
Fluctuating: 0.9 x full scale value |
| **Overpressure safety** | Choice of 600 psi (40 bar), 1,500 psi (100 bar) or 6,000 psi (400 bar) |
| **Operating temperature** | Ambient: -4°F to +140°F (-20°C to +60°C)  
Medium: +212°F (+100°C) maximum |

### Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.8% of span for every 18°F (10°K) rising or falling

### Weather protection
- Weather resistant (NEMA 3 / IP54) - dry case
- Weather tight (NEMA 4X / IP66) - liquid-filled case

### Pressure connection and lower diaphragm housing
- Material: 316 stainless steel  
Lower mount (LM)  
1/2" NPT female
- **Upper diaphragm housing**  
≤100" H₂O (250 mbar): Chromie steel  
>100" H₂O (250 mbar): Stainless steel
- **Diaphragm element**  
≤100" H₂O (250 mbar): 316 stainless steel  
>100" H₂O (250 mbar): Inconel® (NiCr-alloy)  
All ranges with FPM/FKM (Viton) sealing gasket

### Movement
- Stainless steel

### Dial
- White aluminum with black lettering
**Ordering information**
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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**Case**
304 stainless steel, case with solid baffle wall and blow-out back (safety case) and stainless steel bayonet ring

**Window**
Laminated safety glass with Buna-N gasket

**Case fill**
Glycerine - Type 433.36

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**Optional extras**
- Other process connections
- Case filling (type 433.36)
- Vacuum safe to -30” Hg (-1 bar)
- Max. medium temperature: -40°F...+140°F (-40°C...+60°C), silicone case filling
- Higher accuracy, class 1.0 per EN 837-3
- Open connecting flanges per DIN/ASME, DN 15 to DIN 80 (preferred nominal widths DN 25 and 50 or DN 1” and 2”)
- Wetted parts made of special materials, high overpressure safe up to 150 psi (10 bar), ranges ≤ 100” H₂O (250 mbar) or 600 psi (40 bar) - ranges > 100” H₂O (250 mbar): PTFE (type 452.36, 453.36), Hastelloy, Monel, nickel, tantalum, titanium (accuracy class 2.5)
- Additional wall bracket for type 432.36, high overpressure safe up to 6000 psi (400 bar)
- Alarm contacts
- With electrical output signal (model PGT 43HP)

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**Dimensions in mm**

<table>
<thead>
<tr>
<th>NS</th>
<th>Scale ranges</th>
<th>Overpressure safety</th>
<th>Dimensions in mm</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4” (100 mm)</td>
<td>≤ 0.25</td>
<td>40 160</td>
<td>15 15.5</td>
<td>49.5 101</td>
</tr>
<tr>
<td>≤ 0.25</td>
<td>100 160</td>
<td>15 15.5</td>
<td>49.5 101</td>
<td>99</td>
</tr>
<tr>
<td>≤ 0.25</td>
<td>400 190</td>
<td>15 23.5</td>
<td>59 101</td>
<td>100</td>
</tr>
<tr>
<td>&gt; 0.25</td>
<td>40 100</td>
<td>15 15.5</td>
<td>49.5 101</td>
<td>99</td>
</tr>
<tr>
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<td>15 15.5</td>
<td>49.5 101</td>
<td>99</td>
</tr>
<tr>
<td>&gt; 0.25</td>
<td>400 120</td>
<td>15 23.5</td>
<td>59 101</td>
<td>100</td>
</tr>
<tr>
<td>160 (160 mm)</td>
<td>≤ 0.25</td>
<td>40 160</td>
<td>15 15.5</td>
<td>49.5 161</td>
</tr>
<tr>
<td>≤ 0.25</td>
<td>100 160</td>
<td>15 15.5</td>
<td>49.5 161</td>
<td>159</td>
</tr>
<tr>
<td>≤ 0.25</td>
<td>400 190</td>
<td>15 23.5</td>
<td>65 161</td>
<td>160</td>
</tr>
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