Diaphragm Pressure Gauges
Process Industry Series Sealgage®
Type 432.56 - Dry Case
Type 433.56 - 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
- High overpressure safety up to 1,500 psi (100 bar)
- Ranges from 6" H₂O (16 mbar)

Specifications

Design
EN 837-3

Sizes
4" & 6" (100 & 160 mm)

Accuracy class
±1.5% of span

Ranges
Vacuum/Compound to 600 psi (40 bar)
Pressure from 6" H₂O (16 mbar) to 100" H₂O (250 mbar), 6" (160 mm) flange diameter
Pressure from 6 psi (400 mbar) to 600 psi (40 bar), 4" (100 mm) flange diameter or other equivalent units of pressure or vacuum

Working pressure
Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety
Choice of 600 psi (40 bar) or 1,500 psi (100 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): Chrome 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
### Optional extras

- Other process connections
- Case filling (type 433.56)
- Vacuum safe to -30" Hg (-1 bar)
- Max. medium temperature +382°F (+200°C)
- Max. ambient 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 452.56, 453.56), Hastelloy, Monel, nickel, tantalum, titanium (accuracy class 2.5)
- Alarm contacts
- With electrical output signal (model PGT 43HP)

### Dimensions

![Diagram of pressure gauge](image)

<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>G¹ (mm)</th>
<th>S (mm)</th>
<th>T (mm)</th>
<th>W (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>100</td>
<td>104</td>
<td>49.5</td>
<td>99</td>
<td>15.5</td>
<td>100</td>
<td>17.5</td>
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<td>27</td>
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<tr>
<td></td>
<td>4.0</td>
<td>4.09</td>
<td>1.95</td>
<td>3.90</td>
<td>0.61</td>
<td>3.94</td>
<td>0.69</td>
<td>1/2&quot;</td>
<td>1.06</td>
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<tr>
<td>6&quot;</td>
<td>160</td>
<td>134</td>
<td>49.5</td>
<td>159</td>
<td>15.5</td>
<td>100</td>
<td>17.5</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>6.0</td>
<td>5.28</td>
<td>1.95</td>
<td>6.26</td>
<td>0.61</td>
<td>3.94</td>
<td>0.69</td>
<td>1/2&quot;</td>
<td>1.06</td>
</tr>
</tbody>
</table>

¹ For ranges 100"H₂O and lower, G dimension changes to 160 mm (6") and weight increases by 4.0 lb.

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.