Diaphragm Pressure Gauges
Process Industry Series Sealgaugem® - Solid Front Case
Type 432.30 - Dry Case
Type 433.30 - Liquid-filled Case

Applications
- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- 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

Product Features
- Threaded or open flange process connections
- Wide selection of special materials
- All stainless steel construction
- High overpressure safety
- 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 300 psi (20 bar)
Pressure from 6” H₂O (16 mbar) to 100” H₂O (250 mbar),
6” (160 mm) flange diameter
Pressure from 6 psi (400 mbar) to 360 psi (25 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
5 x full-scale value, max. 500 psi

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 (IP65) - liquid-filled case

Pressure connection and lower diaphragm housing
Material: 316L SS
Lower mount (LM)
½” NPT female

Case and upper diaphragm housing
Material: stainless steel
Case with solid-baffle wall and blowout back and stainless steel bayonet ring

Diaphragm element
≤ 100” H₂O (250 mbar): 316 SS
> 100” H₂O (250 mbar): Inconel® (NiCr-alloy)
All ranges with FPM (Viton) sealing gasket

Movement
Stainless steel
Dial
White aluminum with black lettering

Pointer
Black aluminum, adjustable - Type 432.30
Black aluminum, non-adjustable - Type 433.30

Window
Laminated safety glass with Buna-N gasket

Case fill
Glycerine 86.5% - Type 433.30

Optional extras
- 10X overpressure safety, max. 600 psi (40 bar)
- Underpressure safe to -30°Hg
- Silicone or fluorolube case filling
- Special connections limited to wrench flat area
- Open flange connections (300# ASME maximum)
- Instrument glass or acrylic window
- Cleaned for oxygen service
- Extended media temperature to +392°F
- Exotic metal or PTFE lining for open flanges
- Alarm contacts switches (magnetic or inductive)
- Special process connections
- Custom dial layout

Dimensions

<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 (in)</th>
<th>Weight</th>
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<tbody>
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<td>4&quot;</td>
<td>100</td>
<td>104</td>
<td>49.5</td>
<td>99</td>
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<td>49.5</td>
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<td>100</td>
<td>17.5</td>
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<tr>
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<td>3.94</td>
<td>0.69</td>
<td>¼&quot;</td>
<td>1.06</td>
</tr>
</tbody>
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¹ For ranges 100"H₂O and lower, G dimension changes to 160 mm (6") and weight increases by 1.0 lb.