Diaphragm Pressure Gauges
Standard Series Sealgage
Type 422.12 - Dry Case
Type 423.12 - Liquid-filled Case

Applications
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- With liquid filled case for applications with high dynamic pressure pulsations or vibration

Special Features
- Excellent load-cycle stability
- Heavy-duty cast iron case
- High overpressure safety

Standard Features

Design
EN 837-3

Sizes
4” & 6” (100 & 160 mm)

Accuracy class
± 1.5% of span

Ranges
Vacuum / Compound to 200 psi
Pressure from 10" H₂O to 100" H₂O (6” flange diameter)
Pressure from 6 psi to 600 psi (4” flange diameter)
or other equivalent units of pressure or vacuum

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

Overpressure safety
< 6 psi: 5x full-scale value
≥ 6 psi: 3x full-scale value, max. 600 psi

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% for every 18°F (10°C) rising or falling. Percentage of span.

Weather protection
Weather resistant (NEMA 3 / IP54) - dry case
Weather tight (NEMA 4X / IP65) - liquid-filled case

Pressure connection and lower diaphragm housing
Material: carbon steel, black finish
Lower mount (LM)
1/2” NPT female

Case and upper diaphragm housing
Material: cast iron, black finish
Case with black-painted steel bayonet ring

Diaphragm element
≤ 30 psi: 316L stainless steel
> 30 psi: Duratherm
All ranges with Buna-N sealing gasket

Movement
Material: copper alloy with nickel-alloy wearable parts

Dial
White aluminum with black lettering
### Pointer
Black aluminum, adjustable

### Window
Flat instrument glass with Buna-N gasket

### Case fill
Glycerine 99.7% - Type 423.12

### Optional extras
- 10x overpressure safety, max. 600 psi
- Underpressure safe to -30"Hg
- Silicone or fluorolube case filling
- Special connections limited to wrench flat area
- Open flange connections (300# ASME maximum)
- Safety 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</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>G¹</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight</th>
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<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>
<td>27</td>
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<td>4.09</td>
<td>1.95</td>
<td>3.90</td>
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<td>3.94</td>
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<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>27</td>
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<td>6.5 lb.</td>
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<tr>
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<td>6.26</td>
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<td>1/2&quot;</td>
<td>1.06</td>
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</tr>
</tbody>
</table>

¹ For ranges 4 psi and lower, G dimension changes to 160 mm (6") and weight increases by 2.9 lbs.