**Applications**

- The WIKA 23X.34 NACE factory approved process gauge contains stainless steel wetted parts materials that meet the recommendations and guidelines set forth by the NACE International standards MR0175 and MR0103.
- Suitable in oil and gas production industries as well as refinery environments containing H₂S (Hydrogen Sulfide); commonly referred to “sour gas service”.
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system.

**Special features**

- Excellent load-cycle stability and shock resistance
- Solid front thermoplastic case
- Positive pressure ranges to 30,000 psi
- All lower mount connection gauges are factory prepared for liquid filling
- Inspection Certificate to EN 10 204 - 2.2 (available upon request)
- XSEL™ Process Gauge with 5 year warranty on gauge and 10 year warranty on pressure system (see terms and conditions)

(LBM: must install membrane prior to field filling)

**Standard Features**

**Design**

ASME B40.100

**Sizes**

4½” & 6” (115 & 160 mm) dial size

**Accuracy class**

± 0.5% of span (ASME B40.100 Grade 2A)

± 1.0% of span (ASME B40.100 Grade 1A)

(for 20,000 psi range and above)

**Ranges**

Vacuum / Compound to 200 psi

Pressure from 15 psi to 30,000 psi or other equivalent units of pressure or vacuum

**Working pressure**

Steady: full scale value

Fluctuating: 0.9 x full scale value

Short time: 1.5 x full scale value

**Operating temperature**

Ambient: -40°F to +150°F (-40°C to +66°C) - dry

-4°F to +150°F (-20°C to +66°C) - glycerine filled

-4°F to +150°F (-20°C to +66°C) - silicone filled

Medium: max. +212°F (+100°C) (See Note 1 on reverse)

**Temperature error**

Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.4% for every 18°F (10°C) rising or falling. Percentage of span.

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**Bourdon Tube Pressure Gauge Model 232.34 NACE**

**Weather protection**

Weather resistant (NEMA 3 / IP54) - without membrane

Weather tight (NEMA 4X / IP65) - dry case or filled case with membrane installed

**Pressure connection**

Material: 316L stainless steel (maximum hardness 22 HRC)

Lower mount (LM) or lower back mount (LBM)

1/4” or 1/2” NPT with M4 internal tap

**Restrictor**

Material: Stainless steel (0.6 mm)

**Bourdon tube**

Material: 316L stainless steel (maximum hardness 22 HRC)

≤ 1,000 PSI: C-type

> 1,500 PSI: helical type

**Movement**

Stainless steel. Internal stop pin at 1.3 x full scale

Overload and underload stops - standard

Dampened movement - optional

**Dial**

White aluminum with black lettering, stop pin at 6 o’clock with “NACE Sour Gas Service” on dial

**Pointer**

Black aluminum, micro-adjustable

**Case**

Black fiberglass-reinforced thermoplastic (POCAN)

Solid front, blowout back

Turret-style case with built in rear flange lugs
Window
Clear acrylic with Buna-N gasket

Case filling
Glycerine 99.7% - Type 233.34

Optional extras
- Silicone dampened movement
- Panel mounting adaptor kit (field assembled)
- Silicone case filling
- Halocarbon case filling
- Cleaned for oxygen service
- Instrument glass or safety glass window
- Drag pointer (maximum reading indicator)
- Alarm contacts switches (magnetic or inductive)
- Special process connections
- Custom dial layout
- External zero adjustment (4.5" size only)

Note 1: The maximum continuous media temperature for this gauge is 212°F. However, higher temperatures can be maintained safely for short term exposure per table to the right. The user should consider temperature error and gauge component degradation when exposing gauge to any media or ambient temperature above 212°F. For continuous use in either ambient or media temperatures above 212°F, a diaphragm seal or other heat dissipating means is recommended. Consult factory for technical inquiries and application assistance.

Short term, intermittent maximum media temperature limits (Optional glass window required for all these temperatures)
- 500°F (260 °C) - Dry Gauge
- 250°F (130°C) - Liquid filled gauge
- 300°F (150°C) - Dampened movement gauge

Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>W</th>
<th>Weight¹</th>
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<tbody>
<tr>
<td>4.5&quot;</td>
<td>mm</td>
<td>128</td>
<td>103</td>
<td>84</td>
<td>120.3</td>
<td>6.3</td>
<td>40</td>
<td>28.5</td>
<td>148</td>
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<td>12.5</td>
<td>22</td>
<td>2 lb.</td>
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<td>0.49</td>
<td>1/2&quot;</td>
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<tr>
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<td>mm</td>
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<td>122.5</td>
<td>88</td>
<td>123.4</td>
<td>7.1</td>
<td>40.2</td>
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<td>190</td>
<td>177.8</td>
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<tr>
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<td>3.46</td>
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<td>1</td>
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¹ Weight without optional accessories