Absolute Pressure Gauge
Series 300 2.75" Dial

Applications

- Suitable for routine test, laboratory, and production applications

Special Features

- Accurate and compact size
- Available in 10 standard ranges
- Readout is direct, without barometric or temperature corrections
- Readings are referenced to zero absolute

Standard Features

Size
2¾" dial

Scale length
7" through one pointer revolution

Range
To 100 psia

Accuracy
0.33% of full scale

Sensitivity
0.2% of full scale

Case pressure and volume
150 psig, maximum, and 179 cc

Maximum case leak rate
Will not exceed 0.645 x 10^-5 std cc/sec or 0.0019 psi/hr

Case connection
¼" female NPT with built-in stainless steel filter

Case construction
Anodized aluminum with tempered-glass window
Flush mounted by four mounted screws through the bezel

Material exposed to measured gas
Aluminum, Beryllium copper, brass, stainless steel, nylon, Hypalon, Monel, lead, nickel-plated phosphor bronze, soft or silver solder, synthetic sapphire, paper, epoxy cement, TFE, nickelsilver, nickel plating, drawing ink, lacquer

Options
Calibration in most metric units available at no extra cost. Other units of calibration and excess-pressure-relief valves for 2, 15, and 100 psig are available at extra cost.

Weight and shipping weight
App. 2 lbs.

Order Information
When ordering, please specify ordering number, range, and mounting angle (extra cost if mounting angle is other than vertical). Options as listed above.

Note: This gauge should not be used for corrosive gases or for liquids of any kind.
Series 300 2.75" Absolute Pressure Gauge

Direct Readout, No Barometric Adjustments
Because applied pressure is referenced against an evacuated element, WIKA gauges read out true absolute pressure directly. No corrections or adjustments required.

Compact For Space Saving
The Series 300 has a dial only 2¾" in diameter and a scale 7" long. The gauge is compact, yet offers adequate readability.

Calibration is Traceable to National Institute of Standards and Technology (NIST)
A computer-assisted plotter marks calibration points and the graduations between them on each dial. This produces a scale which precisely matches the characteristics of its own pressure capsule and mechanism. Instruments supplied are certified traceable to NIST.

Performs Better than the Rated Accuracy of 0.3% of Full Scale
A readable scale, dials individually matched to precision mechanisms, and excellent repeatability add up to an accuracy of 0.3% full scale. These figures are the minimum performance which can be expected. After rigorous testing, any Series 300 gauge which fails to perform better than the rated accuracy is rejected.

Sensitive Yet Rugged
A small, sensitive capsule responds to minute pressure changes. Low-inertia parts throughout and a linkage containing flexures and jewel bearings mean high sensitivity.

This Series 300 gauge has an anodized aluminum case with a tempered-glass window. Instruments will withstand overpressure up to 10% above full scale without damaging the mechanism nor affecting accuracy.

An optional excess pressure relief valve in the line is designed to prevent exceeding maximum case pressure. Sub-atmospheric ranges have a check valve, which protects the mechanism from sudden release to atmosphere.

Standard Ranges and Ordering Numbers

<table>
<thead>
<tr>
<th>Range and Calibration</th>
<th>Ordering Number</th>
<th>Graduation</th>
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<tbody>
<tr>
<td>0-50 mm Hg</td>
<td>61D-1D-0050</td>
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<td>61D-1D-0100</td>
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<td>0-200 mm Hg</td>
<td>61D-1D-0200</td>
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<td>390-800 mm Hg</td>
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<tr>
<td>0-100 psia</td>
<td>61D-1A-0100</td>
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