

Pressure Indicator Gauge Series 300 2.75" Dial

WIKA Datasheet 300 275I

Applications

- Suitable for test, laboratory, and production uses

Special Features

- Accuracy in a compact size
- Sensitive, yet rugged, convenient to use
- Available in 18 standard ranges (including vacuum and compound ranges)
- Pressure applied to the capsule through a single connection in the case

Standard Features

Ranges

-400" H₂O to 100 psig

Accuracy

0.33% of full scale

Sensitivity

0.2% of full scale

Scale length

7" through one pointer revolution

Dial diameter

2¾"

Pressure element volume

2.5 cc for the range 0-10" water

2.0 cc for all other ranges

Case connection

½" female NPT with built-in stainless steel filter

Connection located on back of case

Case construction

Anodized aluminum with a high strength, Tempered glass window. Flush mounted by four screws through the bezel.

Zero adjustment

A zero adjustment is accessible through the case front



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Material exposed to measured gas

Beryllium copper, brass, soft solder in ranges to 100" water;
silver and soft solder in ranges above 100" water

Options

Metric calibration (SI) units available at no extra cost

Other calibration units available at extra cost

Weight and shipping weight

Approx. 2 lbs.

Order information

When ordering, please specify ordering number, range, and mounting angle. (Extra cost if mounting angle is other than vertical).

Note: This gauge should not be used for corrosive gases or for liquids of any kind.

Series 300 2.75" Pressure Indicator Gauge

Convenience in the Low Pressure Ranges

Available in the low-pressure ranges (10" to 400" water), the Series 300 is a reliable mechanical indicator, which reads out gauge pressure directly.

Compact for Space Saving

The Series 300 has a dial only 2¾" in diameter and a scale 7" long. Thus 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 matches precisely the characteristics of its own pressure capsule and mechanism. These are certified traceable to NIST.

Performs Better than the Rated Accuracy of 0.3% of Full Scale

A readable scale, individually matched dials and mechanisms, excellent repeatability, and a precision mechanism add up to an accuracy of 0.3% and a sensitivity of 0.2% of full scale. These figures are the minimum performance that can be expected. After rigorous testing, any Series 300 gauge that fails to better the rated accuracy is rejected.

Sensitive, Rugged, and Overpressure Protected

- A small, sensitive capsule responds quickly to minute pressure changes
- Low-inertia parts throughout and a linkage containing flexures and jewel bearings mean high sensitivity. Yet the mechanism is rugged and resists damage by on-the-job handling
- The case is anodized aluminum with a high-strength tempered glass window
- A blowout plug in the back of the case is designed to relieve at the slightest pressure build-up
- Overpressuring the instrument up to 10% above its full scale range will not damage the mechanism nor affect accuracy

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Standard Ranges and Ordering Numbers

| Range and Calibration | Ordering Number | Graduation |
|-----------------------|-----------------|------------|
| 0-10" water | 62D-2C-0010 | 0.1" |
| 0-20" water | 62D-2C-0020 | 0.2" |
| 0-40" water | 62D-2C-0040 | 0.5" |
| 0-60" water | 62D-2C-0060 | 1.0" |
| 0-100" water | 62D-2C-0100 | 1.0" |
| 0-200" water | 62D-2C-0200 | 2.0" |
| 0-300" water | 62D-2C-0300 | 5.0" |
| 0-400" water | 62D-2C-0400 | 5.0" |

| Range and Calibration | Ordering Number | Graduation |
|-----------------------|-----------------|------------|
| 0-15 psi | 62D-2A-0015 | 0.2 psi |
| 0-30 psi | 62D-2A-0030 | 0.5 psi |
| 0-60 psi | 62D-2A-0060 | 1.0 psi |
| 0-100 psi | 62D-2A-0100 | 1.0 psi |

Vacuum and Compound Ranges

| Range | Ordering Number | Graduation |
|-------------------------|-----------------|------------|
| -10" to 0" water | 62D-3C-0010* | 0.1" |
| -20" to 0" water | 62D-3C-0020* | 0.2" |
| -400" to 0" water | 62D-3C-0400* | 5.0" |
| -5" to 0" to 5" water | 62D-5C-0010* | 0.1" |
| -10" to 0" to 10" water | 62D-5C-0020* | 0.2" |
| -20" to 0" to 20" water | 62D-5C-0040* | 0.5" |

*Can be calibrated as shown, or in any other standard pressure unit at no extra cost.

