

Pressure Indicator Gauge Series 300 6" Dial

WIKA Datasheet 300 6I

Applications

- Suitable for test, laboratory and production applications

Special Features

- This capsule-type gauge offers a balance between size, readability, accuracy
- Available in 18 standard ranges (including vacuum and compound ranges)
- Pressure is applied to the capsule through a single connection in the case

Standard Features

Accuracy

0.3% of full scale

Ranges:

-400" H₂O to 100 psig

Sensitivity

0.2% of full scale

Scale length

16" through one pointer revolution

Dial diameter

6"

Pressure element volume

2.5 cc for the range 0-10" water

2.0 cc for all other ranges.

Case connection

1/8" female NPT with built-in SS filter. Connection located on bottom of case

Case construction

Aluminum with a high-strength, tempered glass window
Flush mounted by three screws through the bezel

Zero adjustment

A zero adjustment is accessible through the front of the case

Materials exposed to measured gas

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



Pressure Indicator Gauge Series 300 - 6" Dial

Options

Calibration in most metric units are available at no extra cost. Other calibration units and two sets of graduations on the same dial are available at extra cost.

Also available installed in a compact, suitcase-type carrying case with a mounted panel for the gauge. The cover is easily removed and connections can be made without removing the gauge from the case.

Weight and shipping weight

Approx. 5 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 6" Pressure Indicator Gauge

Convenience in the Low Pressure Ranges

Available in the low-pressure ranges (down to 0 to 10" water), the Series 300 is a reliable mechanical indicator which reads out gauge pressure directly.

Excellent Readability

With a 16" scale, the Series 300 offers excellent readability. (In the lowest range, 0 to 10" water, the minimum graduation represents 0.05" water.) Graduations have ample white space between them. This and a knife-edge pointer read-out is better than 0.1% of full scale. Numbers on the dial are horizontally placed and a mirror ring eliminates parallax errors.

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. Instruments supplied 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% full scale. These figures are the minimum performance which can be expected. After rigorous testing, any WIKA Series 300 gauge which fails to better the rated accuracy is rejected.

Sensitive, Rugged, and Overpressure Protected

A small, sensitive capsule responds to minute pressure changes. Low-inertia parts throughout and a linkage containing flexures and jewel bearings mean high sensitivity. The case is heavy cast aluminum with a high tempered glass window. A blow-out 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.

Series 300 6" Pressure Indicator Gauge

Standard Ranges and Ordering Numbers

Range and Calibration	Ordering Number	Graduation
0-10" water	62C-2C-0010	0.05"
0-20" water	62C-2C-0020	0.1"
0-40" water	62C-2C-0040	0.2"
0-60" water	62C-2C-0060	0.5"
0-100" water	62C-2C-0100	0.5"
0-200" water	62C-2C-0200	1.0"
0-300" water	62C-2C-0300	2.0"
0-400" water	62C-2C-0400	2.0"

Range and Calibration	Ordering Number	Graduation
0-15 psi	62C-2A-0015	0.1 psi
0-30 psi	62C-2A-0030	0.2 psi
0-60 psi	62C-2A-0060	0.5 psi
0-100 psi	62C-2A-0100	0.5 psi

Vacuum and Compound Ranges

Range	Ordering Number	Graduation
-10" water to 0	62C-3C-0010*	0.05"
-20" water to 0	62C-3C-0020*	0.1"
-400" water to 0	62C-3C-0400*	2.0"
-5 to 0 to 5" water	62C-5C-0010*	0.05"
-10 to 0 to 10" water	62C-5C-0020*	0.1"
-20 to 0 to 20" water	62C-5C-0040*	0.2"

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

