

Bourdon tube pressure gauge Test gauge series, class 0.6 Models 332.50, 333.50

WIKA data sheet PM 03.06



for further approvals
see page 3

Applications

- With liquid-filled case for applications with high dynamic pressure loads or vibrations ¹⁾
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Precision measurement in laboratories
- High-accuracy pressure measurement
- Testing of industrial type pressure gauges

Special features

- All stainless steel construction
- Knife edge pointer for optimal accuracy of reading
- Wear-resistant precision movement from stainless steel
- Scale ranges up to 0 ... 1,600 bar



Test gauge series, stainless steel, model 332.50

Description

Design

EN 837-1

Nominal size in mm

160

Accuracy class

0.6

Scale ranges

0 ... 0.6 to 0 ... 1,600 bar
or all other equivalent vacuum or combined pressure and vacuum ranges

Adjustment medium

≤ 25 bar: Gas
> 25 bar: Liquid

Pressure limitation

Steady: Full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value

Permissible temperature

Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹⁾
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling ¹⁾

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

Ingress protection

IP 65 per EN 60529 / IEC 529

¹⁾ Model 333.50

Standard version

Process connection

Stainless steel 316L,
lower mount (LM) or lower back mount (LBM)
G ½ B (male), 22 mm flats

Pressure element

Stainless steel 316L,
< 100 bar: C-type
≥ 100 bar: Helical type
≥ 1,000 bar: Ni-Fe-alloy, helical type

Movement

Stainless steel

Dial

Aluminium, white, black lettering

Pointer

Knife edge pointer, aluminium, black

Case

Stainless steel, with pressure relief in case back, scale ranges ≤ 0 ... 10 bar with compensating valve to vent case

Window

Laminated safety glass

Bezel ring

Cam ring (bayonet type), stainless steel

Filling liquid (for model 333.50)

Glycerine

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Surface or panel mounting flange, stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Higher indication accuracy (for gauges without liquid filling), class 0.25 per EN 837 or GRADE 3A per ASME B40.1 after feasibility test
- Mirror band scale
- Zero point adjustable from outside (adjustable dial, only without case filling)
- Adjustment medium gas from 25 bar
- Transport case

CE conformity

Pressure equipment directive

97/23/EC, PS > 200 bar, module A, pressure accessory

Approvals

- **GOST**, metrology/measurement technology, Russia
- **GOST-R**, import certificate, Russia
- **CRN**, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates ¹⁾

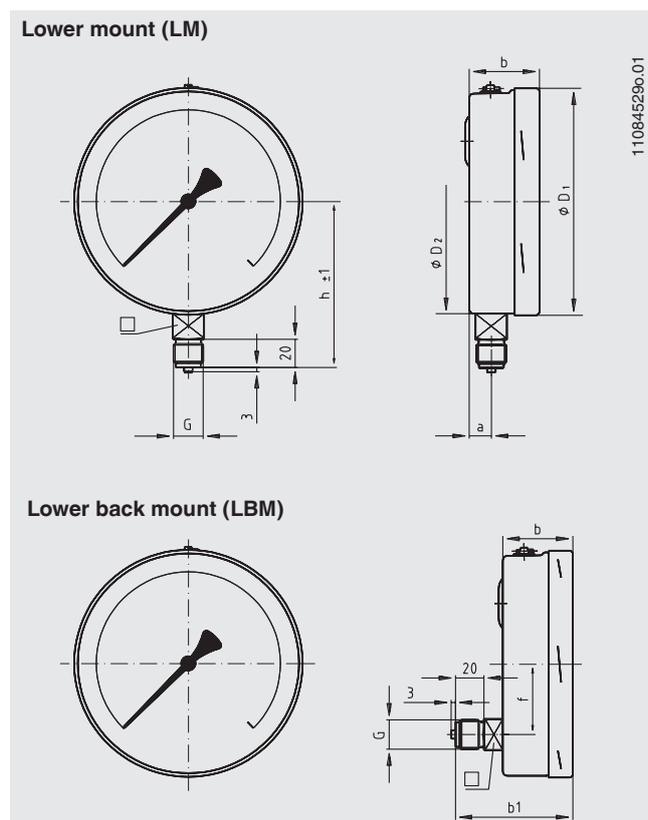
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof wetted parts metal component, indication accuracy)
- DKD/DAkkS certified accuracy

1) Option

Approvals and certificates, see website

Dimensions in mm

Standard version



NS	Dimensions in mm									Weight in kg
	a	b	b ₁	D ₁	D ₂	f	G	h ±1	SW	
160	15.5 ¹⁾	49.5 ¹⁾	83 ¹⁾	161	159	50	G ½ B	118	22	1.10

Process connection per EN 837-1 / 7.3
 1) Plus 16 mm with scale ranges ≤ 4 bar and ≥ 100 bar

Ordering information

Model / Nominal size / Scale range / Connection size / Connection location / Options

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