

# Bourdon Tube Pressure Gauges Test Gauge Series, Class 0.6 Model 332.50/333.50, without/with Liquid Filling

WIKA Data Sheet PM 03.06

## Applications

- 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
- With liquid filled case for applications with high dynamic pressure pulsations or vibrations

## Special Features

- All stainless steel construction
- Knife edge pointer for optimal accuracy of reading
- Wear-resistant precision movement of stainless steel
- Scale ranges up to 0 ... 1600 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 ... 1600 bar

or all other equivalent vacuum or combined pressure and vacuum ranges

### Adjustment medium

≤ 25 bar: gas

> 25 bar: liquid (inside of measuring system dried afterwards)

### Pressure limitation

Steady: full scale value

Fluctuating: 0.9 x full scale value

Short time: 1.3 x full scale value

### Operating temperature

Ambient: -40 ... +60 °C without liquid filling

-20 ... +60 °C gauges with glycerine filling

Medium: +200 °C maximum without liquid filling

+100 °C maximum with liquid filling

### 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 60 529 / IEC 529

## 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  
≥ 1000 bar: Ni-Fe-alloy (Ni-Span-C), helical type

### Movement

Stainless steel

### Dial

Aluminium, with, black lettering

### Pointer

Knife edge pointer, aluminium, black

### Case

Stainless steel, with pressure vent 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

### Liquid filling (for model 333.30)

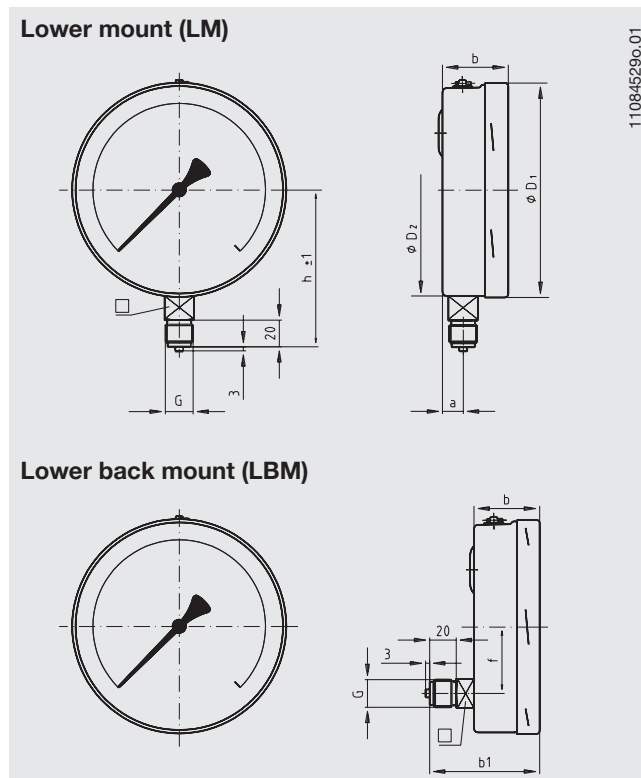
Glycerine

## Options

- Other process connection
- Surface or panel mounting flange, stainless steel
- Triangular bezel, stainless steel, polished, with clamp
- Accuracy class higher (without liquid filling), class 0.25 per EN 837 or GRADE 3A per ASME B40.1 with scale ranges up to ≤ 700 bar (10.000 PSI)
- Mirror band scale
- Zero point adjustable from outside (adjustable dial)
- Alarm contacts (data sheet AC 08.01)

## Dimensions in mm

### Standard version



NS	Dimensions in mm											Weight in kg
	a	b	b <sub>1</sub>	b <sub>2</sub>	D <sub>2</sub>	D <sub>2</sub>	e	f	G	h ± 1	SW	
160	15.5 <sup>1)</sup>	49.5 <sup>1)</sup>	49.5 <sup>1)</sup>	83 <sup>1)</sup>	161	159	17.5	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

Modifications may take place and materials specified may be replaced by others without prior notice.  
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.



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