

# Bourdon tube pressure gauge

## Test gauge series, safety version, class 0.6

### Models 332.30, 333.30

WIKA data sheet PM 03.05



for further approvals  
see page 2

#### 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
- Increased safety requirements for personal protection
- With liquid-filled case for applications with high dynamic pressure loads or vibrations <sup>1)</sup>

#### Special features

- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1
- 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

#### 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



Test gauge series, safety version, model 332.30

##### 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 with glycerine filling <sup>1)</sup>  
Medium: +200 °C maximum without liquid filling  
+100 °C maximum with liquid filling <sup>1)</sup>

##### 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

<sup>1)</sup> Model 333.30

## Standard version

### Process connection

Stainless steel 316L  
Lower mount (LM)  
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 solid baffle wall (Solidfront) and blow-out back

### Window

Laminated safety glass

### Bezel ring

Bayonet ring, stainless steel

### Filling liquid (for model 333.30)

Glycerine

## Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Panel mounting flange, stainless steel
- Surface mounting lugs on the back, stainless steel
- 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)
- High-pressure versions from 2,500 bar (model 322.30, data sheet PM 02.09)
- Adjustment medium gas from 25 bar
- Switch contacts (data sheet AC 08.01)
- 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 <sup>1)</sup>

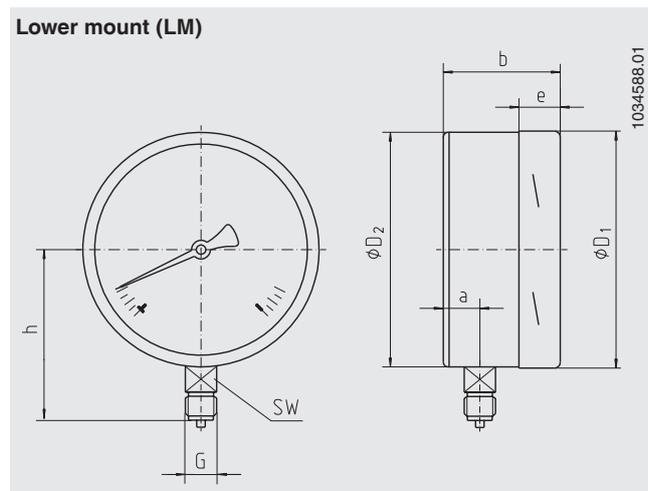
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metallic parts, indication accuracy)
- DKD/DakKS certified accuracy

1) Option

Approvals and certificates, see website

# Dimensions in mm

## Standard version



NS	Dimensions in mm						Weight in kg		SW	Model 332.30	Model 333.30
	a	b	D <sub>1</sub>	D <sub>2</sub>	e	G	h ±1				
160	27 <sup>1)</sup>	65 <sup>1)</sup>	161	159	17.5	G ½ B	118	22	1.30 <sup>1)</sup>	2.34 <sup>1)</sup>	

Process connection per EN 837-1 / 7.3

1) With scale ranges ≥ 100 bar: a = 41.5 mm, b = 79 mm or weight 1.5 kg

## Ordering information

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

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