

# Bourdon tube pressure gauge Test gauge series, class 0.6 Model 312.20

WIKA data sheet PM 03.01



## Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Precision measurement in laboratories
- High-accuracy pressure measurement
- Testing of industrial type pressure gauges

## Special features

- Knife edge pointer for optimal accuracy of reading
- Precise movement with wear parts of argentan
- Scale ranges up to 0 ... 600 bar



Test gauge series model 312.20

## Description

### Design

EN 837-1

### Nominal size in mm

160

### Accuracy class

0.6

### Scale ranges

0 ... 0.6 to 0 ... 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  
Medium: +80 °C maximum

### 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 54 per EN 60529 / IEC 529

## Standard version

### Process connection

Cu-alloy,  
lower mount (LM) or lower back mount (LBM),  
G ½ B (male), 22 mm flats

### Pressure element

< 100 bar: Cu-alloy, C-type  
≥ 100 bar: Stainless steel 316L, helical type

### Movement

Cu-alloy, wear parts argenitan

### Dial

Aluminium, white, black lettering

### Pointer

Knife edge pointer, aluminium, black

### Case

Stainless steel

### Window

Instrument glass

### Bezel ring

Cam ring (bayonet type), stainless steel

## Options

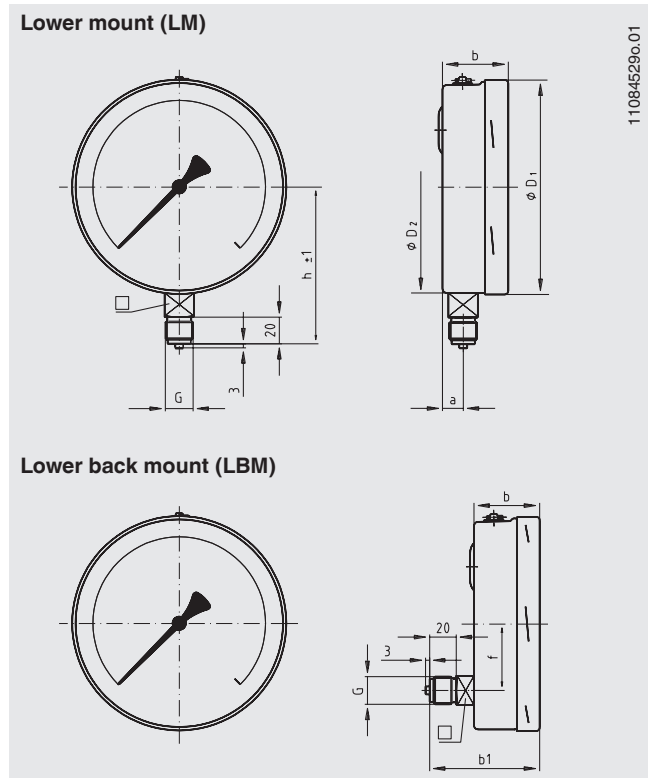
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Liquid filling (model 333.50, data sheet PM 03.06)
- Increased medium temp. to 100 °C with special soft solder
- Increased medium temp. to 200 °C (data sheet PM 03.06)

## Further options

- Panel or surface mounting flange, stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Higher indication accuracy: Class 0.25
- Mirror band scale
- Zero point adjustable from outside (adjustable dial)
- Adjustment medium gas from 25 bar
- Switch contacts (data sheet AC 08.01)

## Dimensions in mm

### Standard version



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