

# Bourdon tube pressure gauge

## Stainless steel, high pressure, safety version

### Models 222.30, 223.30

WIKA data sheet PM 02.09



#### Applications

- Increased safety requirements
- With liquid-filled case for applications with high dynamic pressure loads or vibrations <sup>1)</sup>
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical, petrochemical, power plants, mining, on- and offshore, environmental technology, machine building and general plant construction

#### Special features

- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1
- Excellent load-cycle stability and shock resistance
- All stainless steel construction, socket, pressure element and end piece of Bourdon tube welded
- Scale ranges 0 ... 2000 to 0 ... 7000 bar



Bourdon tube pressure gauge model 222.30

#### Description

##### Nominal size in mm

160

##### Accuracy class

1.0

##### Scale ranges

0 ... 2000 to 0 ... 7000 bar

##### Pressure limitation

Steady: Full scale value

Fluctuating: 2/3 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 223.30

## Standard version

### Process connection

Stainless steel, lower mount (LM)

Optionally (specify when ordering):

- Female thread 9/16 - 18 UNF with 60° sealing cone per Autoclave Engineers
- Female thread M16 x 1.5 to fit lens seal with 60° sealing cone
- Female thread 5/8 - 18 UNF to fit lens seal with 60° sealing cone

### Pressure element

NiFe-alloy

### Movement

Stainless steel

### Dial

Aluminium, white, black lettering

### Pointer

Aluminium, black

### Case

Stainless steel, with solid baffle wall (Solidfront) and blow-out back

### Window

Laminated safety glass

### Bezel ring

Cam ring (bayonet type), stainless steel

## Filling liquid (for model 223.30)

Glycerine 99.7 %

## Mounting

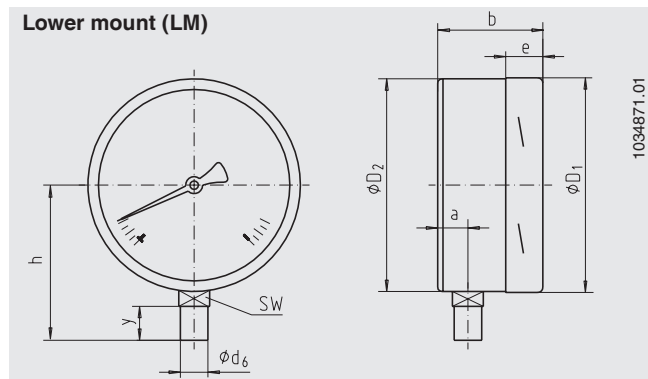
Mounting by means of a rigid measuring line or a mounting bracket, extension 60 mm, for wall mounting (included in delivery)

## Options

- Higher indication accuracy, class 0.25 and 0.6 (model 322.30)
- Panel mounting flange, stainless steel
- Process connection G 3/4 B (male) per ISO 228/1
- Switch contacts (data sheet AC 08.01)

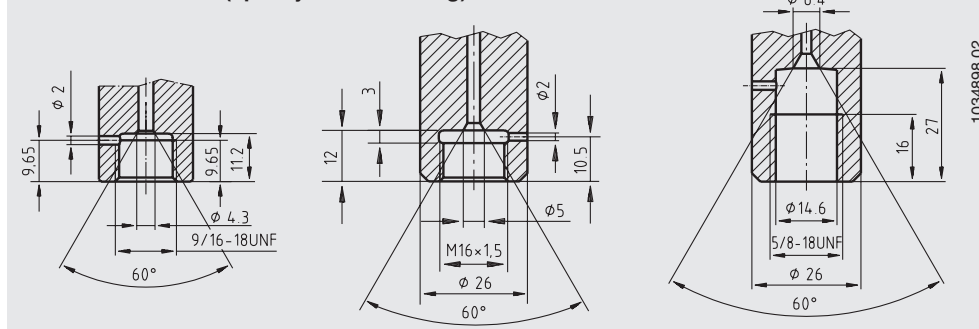
## Dimensions in mm

### Standard version



NS	Dimensions in mm									Weight in kg
	a	b	D <sub>1</sub>	D <sub>2</sub>	d <sub>6</sub>	e	h ± 2	y	SW	
160	26.5	71	161	159	26	26	125	30	27	2.0 <sup>1)</sup>

### Process connection (specify when ordering)



1) For gauges with liquid filling 3.20 kg

## Ordering information

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

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