

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 ¹⁾
- 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 ... 2,500 to 0 ... 7,000 bar



Bourdon tube pressure gauge model 222.30

Description

Nominal size in mm

160

Accuracy class

1.0

Scale ranges

0 ... 2,500 to 0 ... 7,000 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 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. $\pm 0.4\%$ / 10 K of full scale value

Ingress protection

IP 65 per EN 60529 / IEC 529

¹⁾ 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

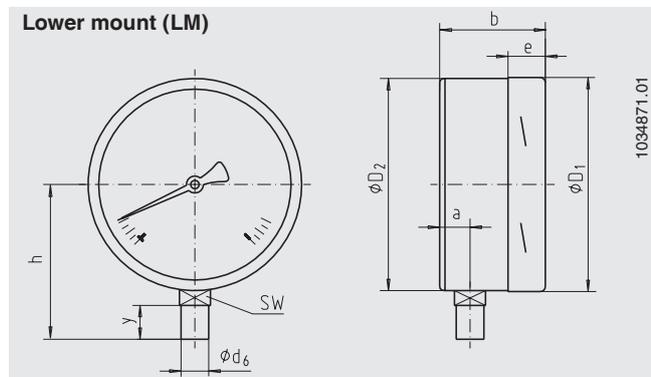
Mounting by means of a rigid measuring line or a mounting bracket, extension 60 mm, for wall mounting (included in delivery)

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)

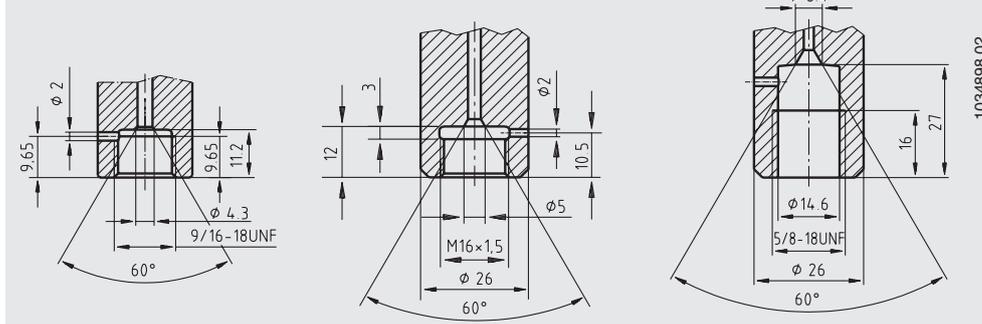
Dimensions in mm

Standard version



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

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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