

Bourdon Tube Pressure Gauges Test Gauge Series, Safety Pattern Version, Class 0.6 Model 332.30/333.30, without/with Liquid Filling

WIKA Data Sheet PM 03.05



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

Special Features

- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1, BS 1780 and ASME B 40.1
- 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

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)



Test Gauge Series, Safety Pattern 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

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)
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, white, black lettering

Pointer

Knife edge pointer, aluminium, black

Case

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

Window

Laminated safety glass

Bezel ring

Cam ring (bayonet type), stainless steel

Liquid filling (for model 333.30)

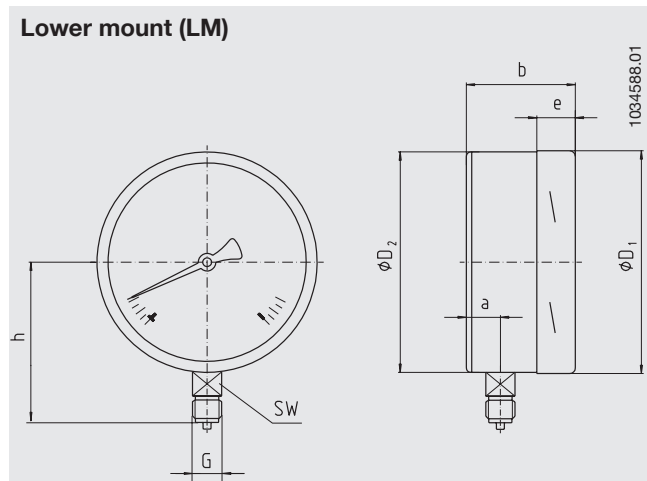
Glycerine

Options

- Other process connection
- Panel mounting flange, stainless steel
- Surface mounting lugs on case, stainless steel
- 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)
- High pressure versions from 2500 bar (model 322.30, data sheet PM 02.09)
- Alarm contacts (data sheet AC 08.01)

Dimensions in mm

Standard version



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

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

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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