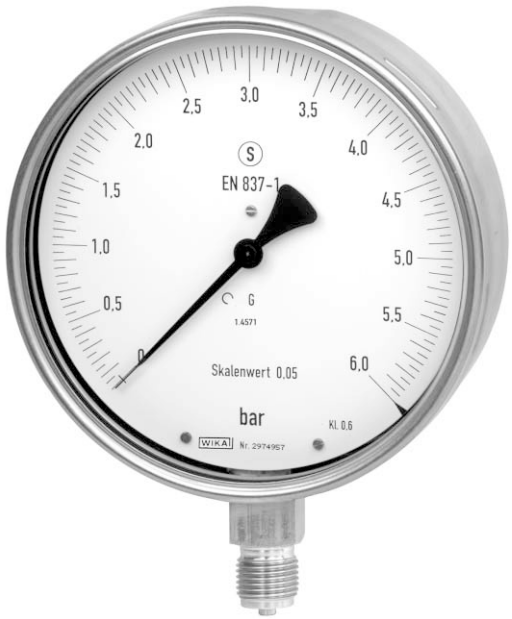
Bourdon Tube Pressure Gauges
Test Gauge Series, Safety Pattern Version, Class 0.6
Model 332.30/333.30, without/with Liquid Filling

Applications

- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- 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



Test Gauge Series, Safety Pattern Version, Model 332.30

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
160

Accuracy class
0.6

Scale ranges
0 ... 0.6 to 0 ... 1600 bar
or other equivalent units of pressure or vacuum

Calibrating medium
≤ 25 bar: gas
> 25 bar: liquid (inside of measuring system dried afterwards)

Working pressure
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 temperature of the pressure element deviates from reference temperature (+20 °C):
max. ±0.4 %/10 K of true scale value

Ingress protection
IP 65 per EN 60 529 / IEC 529

Field service test gauge, safety pattern version model 332.11 see data sheet PM 03.04

Standard features

Pressure connection
Material: stainless steel 316L
Lower mount (LM), G ½ B (male), 22 mm flats

Pressure element
Material: 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
White aluminium with black lettering

Pointer
Black aluminium, knife edge pointer

Case
Natural finish stainless steel, case with solid baffle wall and blow-out back

Window: Laminated safety glass

Bezel ring: Cam ring (bayonet type), natural finish stainless steel

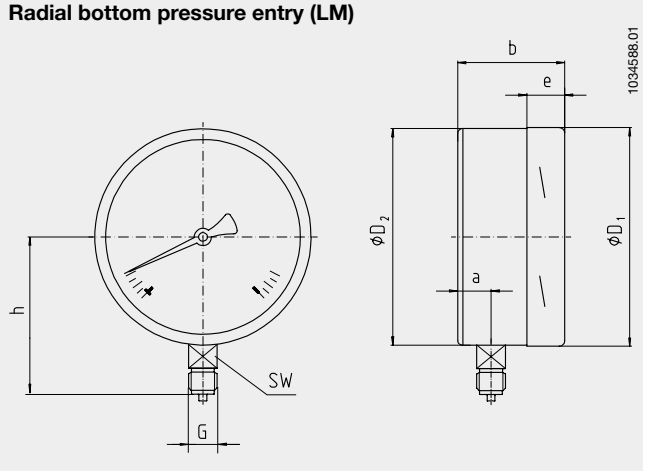
Liquid filling (for model 333.30): Glycerine

Optional extras

- Other pressure connection
- 3-hole panel mounting flange, stainless steel
- Surface mounting lugs on case, stainless steel
- Accuracy class higher (without liquid filling), class 0.25
- 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 (see data sheet AC 08.01)

Standard version

Radial bottom pressure entry (LM)



Dimensions in mm

NS	Dimensions in mm								Weight in kg	
	a	b	D_1	D_2	e	G	h ± 1	flats	Model 332.30	Model 333.30
160	27 1)	65 1)	161	159	17.5	G ½ B	118	22	1.30 1)	2.34 1)

Standard pressure entry with parallel thread and sealing to EN 837-1 / 7.3
1) With pressure ranges ≥ 100 bar: a = 41.5 mm, b = 79 mm resp. weight 1.5 kg

Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required

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