

Bourdon tube pressure gauge Safety version Model 111.31, welding gauge to ISO 5171

WIKA data sheet PM 01.11



Applications

- For equipment and plants for welding, cutting and allied processes
- Application for oxygen and acetylene
- Increased safety requirements

Special features

- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1 (S3)
- Reliable and cost-effective
- Nominal size 50
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 111.31

Description

Design

ISO 5171

Nominal size in mm

50

Accuracy class

2.5

Scale ranges

0 ... 2.5 to 0 ... 400 bar
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation

Steady: 3/4 x full scale value

Fluctuating: 2/3 x full scale value

Short time: Full scale value

Permissible temperature

Ambient: -20 ... +60 °C

Medium: +60 °C maximum

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. $\pm 0.4 \%$ /10 K of the span

Standard version

Process connection

Copper alloy,
lower mount (LM)
1/4 NPT (male), 14 mm flats

Pressure element

Copper alloy
C-type or helical type

Movement

Copper alloy

Dial

Plastic, white,
with pointer stop pin, black lettering

Pointer

Plastic, black

Case

Zinc diecast with solid baffle wall (Solidfront) and blow-out back

Window

Polycarbonate

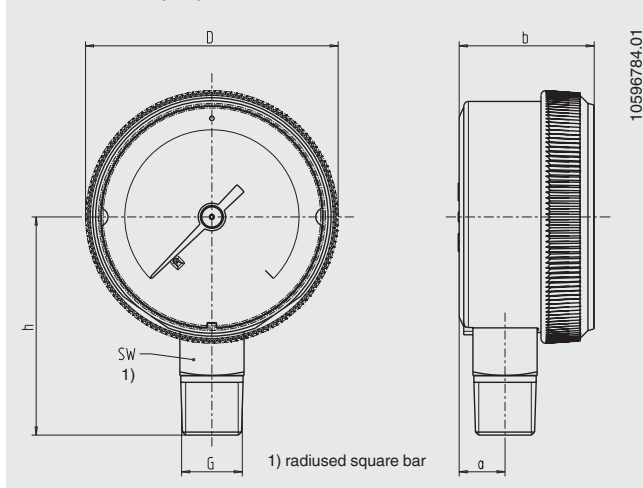
Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Case lacquered to customer requirements

Dimensions in mm

Standard version

Lower mount (LM)



NS	Dimensions in mm						Weight in kg
	a	b	D	G	h ±1	SW	
50	10	29.5	55.1	1/4 NPT	47.5	14	0.13

CE conformity

Pressure equipment directive

97/23/EC, PS > 200 bar, module A, pressure accessory

Approvals

- GOST-R, import certificate, Russia

Certificates ¹⁾

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof wetted parts metal component, indication accuracy)

1) Option

Approvals and certificates, see website

Ordering information

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

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