

Mechanical pressure measurement

Bourdon tube pressure gauge Back mount, standard version Model 111.12

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Pneumatics
- Heating and air-conditioning technology
- Small-capacity compressors
- Medical engineering

Special features

- Reliable and cost-effective
- Design per EN 837-1
- Nominal size 40, 50, 63, 80 and 100
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 111.12

Description

Design

EN 837-1

Nominal size in mm

40, 50, 63, 80 and 100

Accuracy class

2.5

Scale ranges

0 ... 0.6 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,

centre back mount (CBM)

NS 40: G 1/8 B (male), 14 mm flats

NS 50, 63: G 1/4 B (male), 14 mm flats

NS 80, 100: G 1/4 B (male), 14 mm flats

Pressure element

Copper alloy,

≤ 60 bar: C-type

> 60 bar: Helical type

Movement

Copper alloy

Dial

NS 40, 50, 63: Plastic, white, with pointer stop pin

NS 80, 100: Aluminium, white, with pointer stop pin

Black lettering

Pointer

Plastic, black

Case

Plastic, black

NS 100: Steel, black

Window

Plastic, crystal-clear, snap-fitted in case

Options

- Other process connection
- Accuracy class 1.6
- Case steel, black
- Triangular bezel with mounting bracket

Special versions

For closed heating systems

NS 63, 80

with red mark pointer and adjustable green sector,
scale range 0 ... 4 bar, red mark at 2.5 or 3 bar

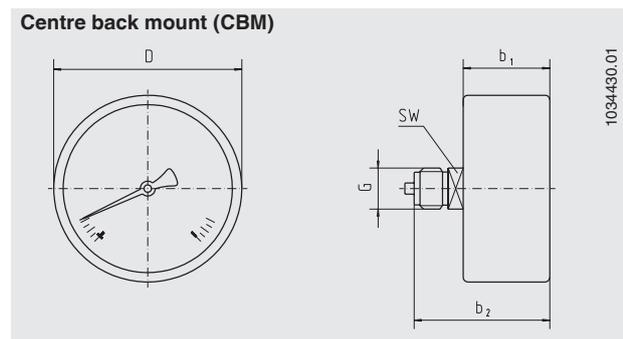
For water-level indication (hydrometer)

NS 80

Scale ranges 0 ... 0.6 to 0 ... 40 bar, with second scale in
mWS

Dimensions in mm

Standard version



NS	Dimensions in mm		D	G	SW	Weight in kg
	b ₁ ±0.5	b ₂ ±1				
40	26	42	39	G 1/8 B	14	0.06
50	29.5	47.5	49	G 1/4 B	14	0.07
63	29	47	62	G 1/4 B	14	0.08
80	32	49	79	G 1/4 B	14	0.11
100	31	49	99	G 1/4 B	14	0.26

Process connection per EN 837-1 / 7.3

Ordering information

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