Bourdon tube pressure gauge, copper alloy
Panel mounting series
Models 111.16 and 111.26

for further approvals
see page 3

Applications

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

Special features

- Specifically for panel mounting
- Reliable and cost-effective
- Design per EN 837-1
- Scale ranges up to 0 ... 400 bar



Fig. left: Model 111.16
Fig. right: Model 111.26

Description

The models 111.16 and 111.26 have been specifically designed for panel mounting and therefore feature a back mount process connection.

The model 111 pressure gauges are based on the proven Bourdon tube measuring system. On pressurisation, the deflection of the Bourdon tube, proportional to the incident pressure, is transmitted to the movement via a link and indicated.

For easy installation, the plastic cases of the panel mounting series are already equipped with a mounting flange.

The model 111.16 Bourdon tube pressure gauge can be fitted to the panel by means of a mounting bracket (accessory). The model 111.26 is mounted to the panel by “snap-in mounting” using lateral locating lugs at the case. In addition, metallised front bezels can be supplied for the model 111.26.

The panel mounting series of model 111 is also available in customer-specific versions, e.g. with individual dial layout.

Data sheets showing similar products:
Standard version; models 111.10, 111.12; see data sheet PM 01.01

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Specifications

Design
EN 837-1

Nominal size in mm
Model 111.16: 40, 50 and 63
Model 111.26: 40, 50, 63 and 80

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. ±0.4 %/10 K of the span

Process connection
Copper alloy
For process connections and spanner widths see page 4

Pressure element
Copper alloy
C-type or helical type

Movement
Copper alloy

Dial
NS 40, 50, 63: Plastic, white, with pointer stop pin
NS 80: Aluminium, white

Pointer
Plastic, black

Case
Plastic, black

Window
Plastic, crystal-clear, snap-fitted in case

Panel fitting
Model 111.16:
- Panel mounting flange
- Mounting bracket

Model 111.26: Locating lugs on the case side
NS 40, 50, 63: Triangular bezel
NS 80: Front flange

Options

- Other process connection
- Accuracy class 1.6
- Model 111.26, NS 40, 50, 63: Triangular bezel, metallised

Special version

For drinking water installations
Material suitability of the wetted parts in accordance with the evaluation criteria for metallic substances of the German federal environmental agency and the “4MS Common Composition List”.

Approvals

Logo	Description	Country
CE	**EU declaration of conformity** Pressure equipment directive	European Union
EAC	**EAC (option)** Pressure equipment directive	Eurasian Economic Community
	GOST (option) Metrology, measurement technology	Russia
	KazInMetr (option) Metrology, measurement technology	Kazakhstan
	BelGIM (option) Metrology, measurement technology	Belarus
-	**CPA** Metrology, measurement technology	China
-	**CRN** Safety (e.g. electr. safety, overpressure, ...)	Canada

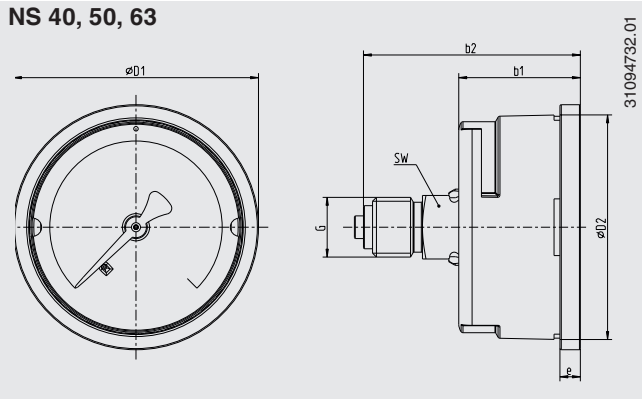
Certificates (option)

- 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. indication accuracy)

Dimensions in mm

Model 111.16

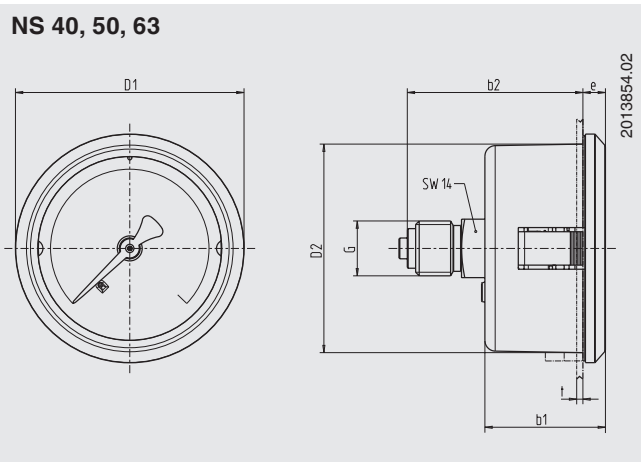
NS 40, 50, 63



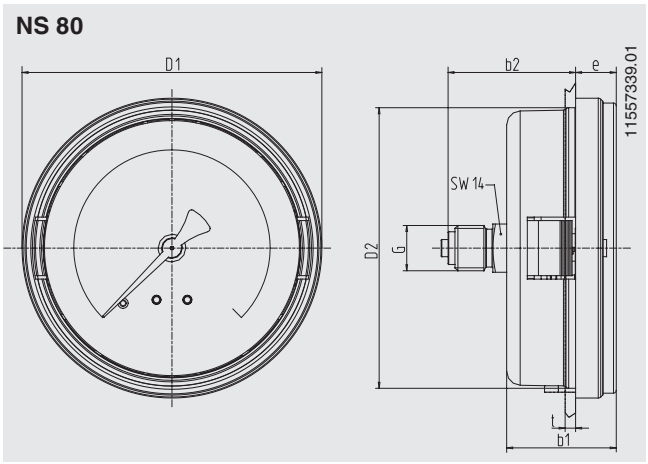
NS	Dimensions in mm							Weight in kg
	b_1 ±0.5	b_2 ±1	D_1	D_2	G	SW	e	
40	26.5	44.5	45	40	G ⅛ B	14	4.5	0.06
50	26.5	47.5	54	49.5	G ¼ B	14	4.5	0.07
63	29.5	47.5	68	63	G ¼ B	14	5	0.08

Model 111.26

NS 40, 50, 63



NS 80



NS	Dimensions in mm							Panel cutout		Weight in kg
	b1 ±0.5	b2 ±1	D1	D2	G	SW	e	Ø	t	
40	29	39	44	40	G 1/8 B	14	5.5	40.5	1.0 ... 2.5	0.06
50	29	42	55	50	G 1/4 B	14	5.5	50.5	1.0 ... 2.5	0.07
63	29	42	68	63	G 1/4 B	14	5.5	63.5	1.0 ... 2.5	0.08
80	32	37	87	81.5	G 1/4 B	14	12	82	1.5 ... 3.5	0.12

Ordering information

Model / Nominal size / Scale range / Process connection / Options

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