

Art. No. 102068 to 102107

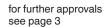
Bourdon tube pressure gauge, copper alloy Model 113.13, liquid filling, plastic case











Applications

- For measuring points with high dynamic pressure loads and vibrations
- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Hydraulics
- Compressors

Special features

- Vibration and shock-resistant
- Design per EN 837-1
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 113.13

Description

The model 113.13 is a liquid-filled pressure gauge with plastic case.

The liquid filling causes damping of the internal components and contributes to an increased vibration resistance and shock resistance.

The pressure gauges are suitable for installation in machines and plants where vibrations and shocks are expected.

These pressure gauges are based on the proven Bourdon tube measuring system. The deflection of the Bourdon tube is transmitted to a movement and indicated.

The plastic case and the window are welded together and an O-ring seal seals the process connection at the case. In this way the instrument fulfils the high requirements for IP65 ingress protection. With accuracy class 2.5 and the available nominal sizes 40, 50 and 63, this model is suited for a wide range of applications in industry. The mounting bracket, which is available as an option, enables the panel mounting of pressure gauges with back mount process connection. The nominal size 63 mm version with back mount process connection is alternatively offered with a mounting flange on the front of the instrument. This mounting flange is used, when, for example, panel mounting is only possible from the front

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Pressure Gauge

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Specifications

Version

EN 837-1

Nominal size in mm

40, 50, 63

Accuracy class

2.5

Scale ranges

0 ... 1.6 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 $^{\circ}$ C): max. ±0.4 %/10 K of the span

Process connection

Copper alloy, Lower mount (radial) or centre back mount, NS 40: Centre back mount, G 1/8 B (male), SW 14 NS 50, 63: G 1/4 B (male), SW 14

Pressure element

Copper alloy

Movement

Copper alloy

Dia

Plastic, white, black lettering, with pointer stop pin

Pointer

Plastic, black

Case

Plastic, black

Window

Plastic, crystal-clear (PMMA), welded with case

Filling liquid

Glycerine

Ingress protection

IP65 per EN/IEC 60529

Options

- Panel mounting flange (only for NS 63 and back mount)
- Mounting clamp (only for back mount)
- Customer-specific version

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RIEGLER & Co. KG, Sales Engineering



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Approvals

Logo	Description	Country
CE	EU declaration of conformity Pressure equipment directive	European Community
ERC	EAC Pressure equipment directive	Eurasian Economic Community
©	GOST Metrology, measurement technology	Russia
6	KazinMetr Metrology, measurement technology	Kazakhstan
-	MTSCHS Permission for commissioning	Kazakhstan
(BeIGIM Metrology, measurement technology	Belarus
•	UkrSEPRO Metrology, measurement technology	Ukraine
-	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)

Approvals and certificates, see website

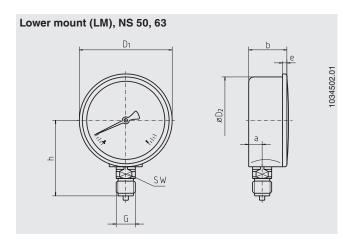


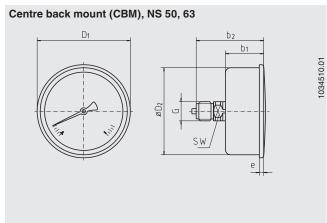
Pressure Gauge

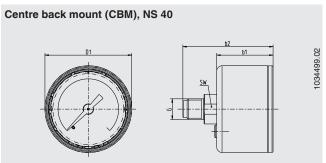
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Dimensions in mm

Standard version







NS	Dimens	Dimensions in mm									
	а	b	b1	b2	D1	D2	е	G	h ± 1	sw	kg
40	-	-	26.5	42.5	41	-	-	G 1/8 B	-	14	0.13
50	11.5	27	29	53	55	51	5	G 1/4 B	48	14	0.17
63	11.5	27	29	53	68	62.5	5	G 1/4 B	54	14	0.21

Process connection per EN 837-1 / 7.3