

Bourdon Tube Pressure Gauges Model 213.40, Liquid Filling, Forged Brass Case

WIKA Data Sheet PM 02.06



Applications

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

Special Features

- Vibration and shock resistant
- Especially sturdy design
- Approval German Lloyd
- Scale range up to 0 ... 1000 bar

Description

Design
EN 837-1

Nominal size in mm
63, 100

Accuracy class
NS 63: 1.6
NS 100: 1.0

Scale ranges
0 ... 0.6 to 0 ... 1000 bar
or all other equivalent vacuum or combined pressure and vacuum ranges



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Pressure limitation

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	full scale value
NS 100:	Steady:	full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

Operating 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

Ingress protection

IP 65 per EN 60 529 / IEC 529

Standard version

Process connection

Cu-alloy, lower mount (LM) or back mount

NS 63: G ¼ B (male), 14 mm flats

NS 100: G ½ B (male), 22 mm flats

Pressure element

NS 63:

< 60 bar: Cu-alloy, C-type, soft soldered

≥ 60 bar: Cu-alloy, helical type, soft soldered

NS 100:

< 100 bar: Cu-alloy, C-type, soft soldered

≥ 100 bar: Stainless steel 1.4571, helical type, brazed

Movement: Cu-alloy

Dial

NS 63: Plastic ABS, white, with pointer stop pin

NS 100: Aluminium, white
black lettering

Pointer: Aluminium, black

Window: Clear plastic

Case

Solid forged brass, with pressure relief at case circumference, 12 o'clock

Ranges ≤ 0 ... 6 bar with compensating valve to vent case

Bezel ring

Crimp ring, natural finish stainless steel

Liquid filling

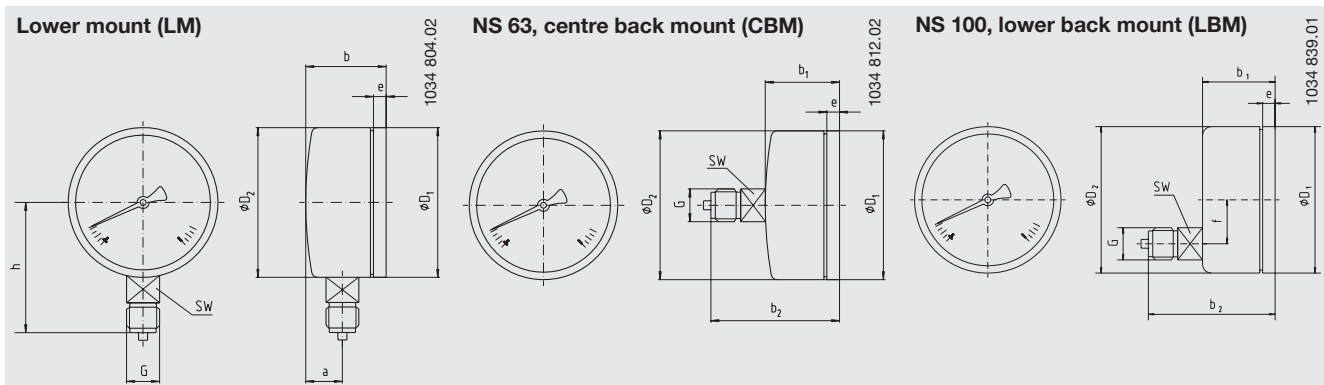
Glycerine 99.7 %

Options

- Other process connection
- Internal pressure compensation
- Medium temperature up to 100 °C with special soft solder
- Panel or surface mounting flange
- Triangular bezel with clamp

Dimensions in mm

Standard version



NS	Dimensions in mm											Weight in kg
	a	b	b ₁	b ₂	D ₁	D ₂	e	f	G	h ± 1	SW	
63	12	36	36	56	62	62	10.5	-	G ¼ B	54	14	0.30
100	13.5	53.5	53.5	86	99	99	11.5	30	G ½ B	87	22	1.10

Process connection EN 837-1 / 7.3

Ordering information

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

Modifications may take place and materials specified may be replaced by others without prior notice.

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

