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

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

Bourdon Tube Pressure Gauge Model 213.40

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

Pressure limitation

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale valuee
	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

Data Sheets showing similar devices:
Liquid filling, stainless steel case; model 213.53; see data sheet PM 02.12

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

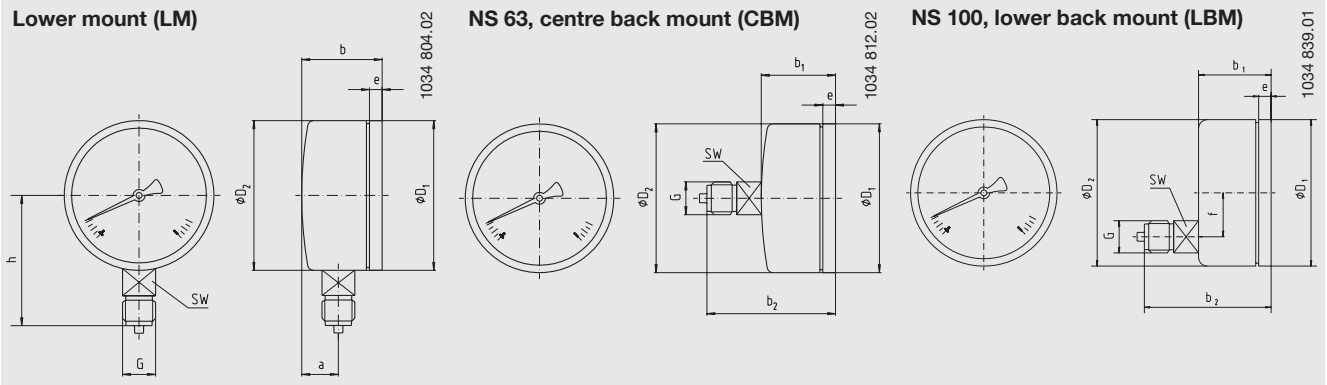
Liquid filling
Glycerine 99.7 %

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

WIKA Alexander Wiegand GmbH & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. (+49) 9372/132-0
Fax (+49) 9372/132-406
E-mail info@wika.de
www.wika.de

9019804 10/2008 GB