Bourdon Tube Pressure Gauges
Model 113.53, Standard Series with Liquid Filling

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
- Hydraulics
- Compressors

Special Features

- Vibration and shock resistant
- Particularly robust design
- Stainless steel case
- Scale ranges up to 0 … 400 bar



Bourdon Tube Pressure Gauge Model 113.53

Description

Design
EN 837-1

Nominal size in mm
40, 80, 100

Accuracy class
NS 40: 2.5
NS 80, 100: 1.6

Scale ranges
0 ... 1 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

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

WIKA
Part of your business

Standard version

Process connection
Cu-alloy,
lower mount (LM) or centre back mount (CBM),
NS 40: G ⅛ B (male), 14 mm flats
NS 80: G ½ B (male), 14 mm flats
NS 100: G ½ B (male), 22 mm flats

Pressure element
< 60 bar: Cu-alloy, C-type
≥ 60 bar: Cu-alloy, helical type

Movement
Cu-alloy

Dial
Aluminium, white, black lettering, with pointer stop pin

Pointer
Aluminium, black

Window
Plastic, crystal-clear

Case
Natural finish stainless steel, with pressure relief at case circumference, 12 o'clock.
Ranges ≤ 0 ... 16 bar with compensating valve to vent case.

Bezel ring
Crimp ring, glossy finish stainless steel, triangular bezel

Liquid filling
Glycerine 99.7 %

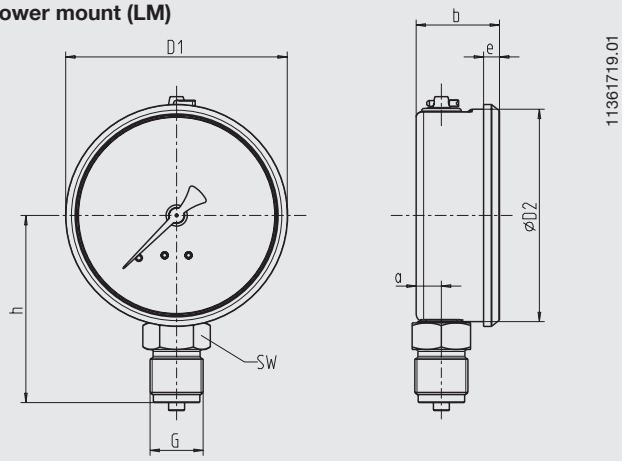
Options

- NS 80, 100: Panel mounting flange, stainless steel, for back mount connection
- NS 80, 100: Surface mounting flange, stainless steel

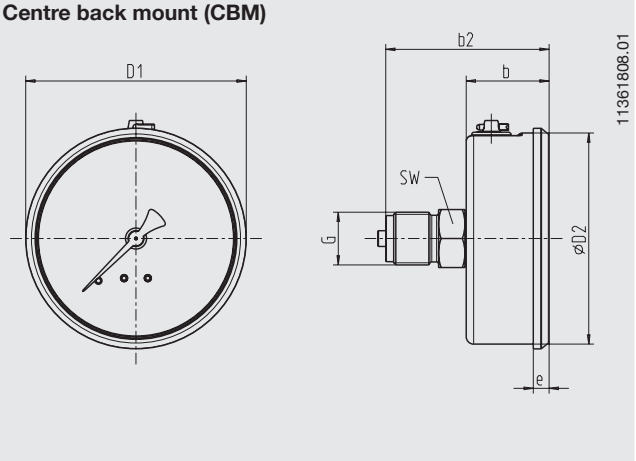
Dimensions in mm

Standard version

Lower mount (LM)



Centre back mount (CBM)



NS	Dimensions in mm									Weight in kg
	a	b ± 0.5	b_2 ± 0.5	D_1	D_2	e	G	h ± 1	SW	
40	9.5	28	50	47	40	6	G ⅛ B	41	14	0.15
80	9.5	31.5	62	84	80	6	G ½ B	70	22	0.35
100	10	35	65	107	100	8	G ½ B	80	22	0.55

Process connection per 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.

WIKA Alexander Wiegand SE & 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

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