

**Mechanical
pressure measurement**

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

WIKA data sheet PM 01.04

Applications

- For measuring points with high dynamic pressure loads 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
- Reliable and cost-effective
- Design per EN 837-1
- Scale ranges up to 0 ... 400 bar



Bourdon tube pressure gauge model 113.13

Description

Design
EN 837-1

Nominal size in mm
40, 50 and 63

Accuracy class
2.5

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

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

Ingress protection

IP 65 per EN 60529 / IEC 529

Standard version

Process connection

Cu-alloy,
lower mount (LM) or centre back mount (CBM) (NS 40 only back mount)

NS 40: G 1/8 B (male), 12 mm flats
NS 50, 63: G 1/4 B (male), 14 mm flats

Pressure element

Cu-alloy,
≤ 60 bar: C-type
> 60 bar: Helical type

Movement

Cu-alloy

Dial

Plastic, white, black lettering, with pointer stop pin

Pointer

Plastic, black

Case

NS 40: Plastic, black, cylindrical
NS 50, 63: Plastic, black, with front flange
O-ring seal between case and connection (with scale ranges ≤ 0 ... 6 bar ventable)

Window

Plastic, crystal-clear, welded with case

Filling liquid

Glycerine 99.7 %

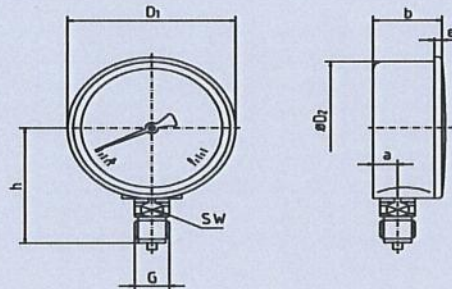
Options

- NS 50, 63: Panel mounting flange
- Mounting clamp (only for back connection)

Dimensions in mm

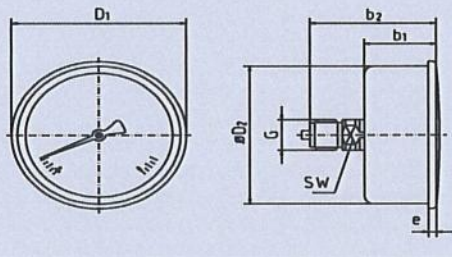
Standard version

Lower mount (LM), NS 50, 63



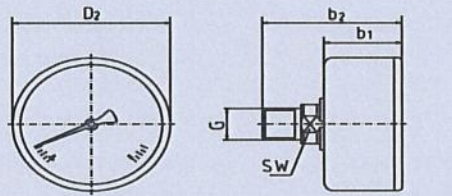
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Centre back mount (CBM) (NS 50, 63)



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Centre back mount (CBM), NS 40



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NS	Dimensions in mm										Weight in kg
	a	b	b ₁	b ₂	D ₁	D ₂	e	G	h ± 1	SW	
40	-	-	26.5	42.5	-	41	-	G 1/8 B	-	12	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

Ordering information

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

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The specifications given in this document represent the state of engineering at the time of publishing.
We reserve the right to make modifications to the specifications and materials.



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Art. No.	Ident No.
700-K	102068
700/1-K	102069
700/2-K	102070
700/3-K	102071
700/4-K	102072
700/5-K	102073
702-K	102074
703-K	102075
704-K	102076
705-K	102077
706-K	102078
707-K	102079
708-K	102080
709-K	102081
710-K	102082
711-K	102083
712-K	102084
713-K	102085
714-K	102086
715-K	102087

Art. No.	Ident No.
800-K	102088
800/1-K	102089
800/2-K	102090
800/3-K	102091
800/4-K	102092
800/5-K	102093
802-K	102094
803-K	102095
804-K	102096
805-K	102097
806-K	102098
807-K	102099
808-K	102100
809-K	102101
810-K	102102
811-K	102103
812-K	102104
813-K	102105
814-K	102106
815-K	102107