

Diaphragm pressure gauge Industrial series, grey cast iron Models 422.12, 423.12

WIKA data sheet PM 04.02



Applications

- For measuring points with increased overpressure
- With liquid-filled case for applications with high dynamic pressure loads or vibrations ¹⁾
- For gaseous and liquid media, with the open connecting flange option also for particulates-containing and viscous media
- For mining, environmental technology, machine building and general plant construction

Special features

- Compatible with switch contacts
- Process connection thread or open flange
- Scale ranges from 0 ... 16 mbar



Diaphragm pressure gauge model 422.12

Description

Design

EN 837-3

Nominal size in mm

100, 160

Accuracy class

1.6

Scale ranges

0 ... 16 mbar to 0 ... 250 mbar (flange Ø 160 mm)
0 ... 400 mbar to 0 ... 40 bar (flange Ø 100 mm)
or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation

Steady: full scale value
Fluctuating: 0.9 x full scale value

Overpressure safety

3 x full scale value, however max. 40 bar

Permissible temperature

Ambient: -20 ... +60 °C
Medium: +100 °C maximum

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.8 %/10 K of full scale value

Ingress protection

IP 54 per EN 60529 / IEC 529
(with liquid filling ¹⁾ IP 65)

¹⁾ Model 423.12

Standard version

Process connection with lower measuring flange

Steel, lower mount (LM), G ½ B (male), 27 mm flats

Pressure element

≤ 2.5 bar: Stainless steel 1.4571

> 2.5 bar: Stainless steel 1.4568

Pressure chamber sealing

NBR

Movement

Cu-alloy, wear parts argentan

Dial

Aluminium, white, black lettering

Pointer

Aluminium, black

Case with upper measuring flange

Grey cast iron, black

Window

Instrument glass

Bezel ring

Cam ring (bayonet type), stainless steel, black

Filling liquid ²⁾ (for model 423.12)

Glycerine 86.5 %

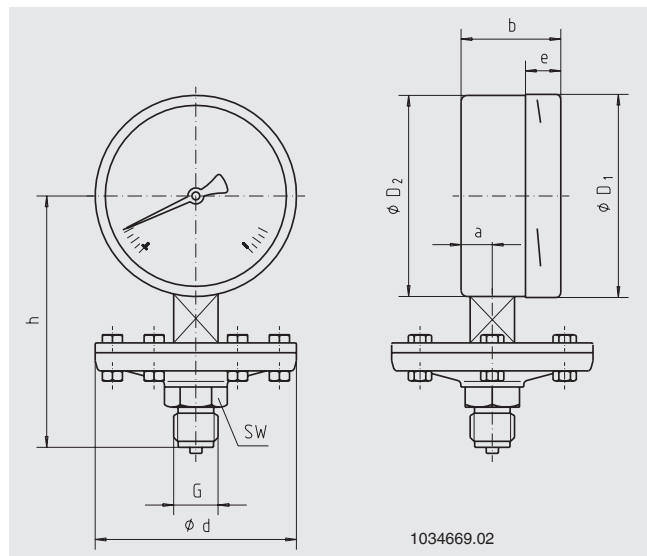
²⁾ Accuracy class 2.5

Options

- Other process connection
- Wetted parts made of stainless steel (model 432.12)
- Overpressure safety: 10 x full scale value, max. 40 bar
- Vacuum safe up to -1 bar
- Open connecting flanges per DIN/ASME from DN 15 to DN 80 (preferred nominal widths DN 25 and 50 or DN 1" and 2" per data sheet IN 00.10)
- Pressure element > 2.5 bar: NiCrCo-alloy (Duratherm)
- Switch contacts ²⁾ (see data sheet AC 08.01)

Dimensions in mm

Standard version



NS	Scale range	Dimensions in mm									Weight
	in bar	d	a	b	D1	D2	e	G	h ± 2	SW	in kg
100	≤ 0.25	160	15.5	49.5	101	99	17.5	G ½ B	135	27	3.4
160	≤ 0.25	160	15.5	49.5	161	159	17.5	G ½ B	165	27	4.3
100	> 0.25	100	15.5	49.5	101	99	17.5	G ½ B	135	27	2.1
160	> 0.25	100	15.5	49.5	161	159	17.5	G ½ B	165	27	3.0

Process connection per EN 837-3 / 7.3.

Ordering information

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

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