Diaphragm Pressure Gauges
Industrial Series, Stainless Steel Case
Model 422.20/423.20, without/with Liquid Filling

Applications

- For measuring points with increased overload
- With liquid filled case for applications with high dynamic pressure pulsations or vibrations
- Suitable for all gaseous and liquid, high-viscosity or solids entrained media
- For capital goods and extractive industries

Special Features

- As a standard 3 or 5 times overpressure safety
- Compatible with alarm contacts and transmitters
- Optional: pressure connection with flange
- Scale ranges from 0 … 16 mbar

Diaphragm Pressure Gauge Model 422.20

Description

Design
EN 837-3

Nominal size
100 and 160 mm

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 other equivalent units of pressure or vacuum

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

Overpressure safety
≤ 0.25 bar: 5 x full scale value
> 0.25 to ≤ 2.5 bar: 3 x full scale value
> 2.5 bar: 5 x full scale value, 40 bar maximum

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

Temperature effect
When temperature of the pressure element deviates from reference temperature (+20 °C):
max. ±0.8 %/10 K of true scale value

Ingress protection
IP 54 per EN 60 529 / IEC 529
(with liquid filling IP 65)

Industrial series, grey cast iron model 422.12 see data sheet PM 04.08

Standard features

Pressure connection and lower diaphragm housing
Material: black carbon steel
Lower mount (LM) G ½ B (male), 27 mm flats

Pressure element
Material: stainless steel

Diaphragm sealing ring
NBR (Buna rubber)

Upper diaphragm housing
Stainless steel

Movement
Material: Cu-alloy, wear parts argentan

Dial
White aluminium with black lettering

Pointer
Black aluminium pointer

Case
Stainless steel

Window
Instrument glass

Bezel ring
Cam ring (bayonet type), stainless steel

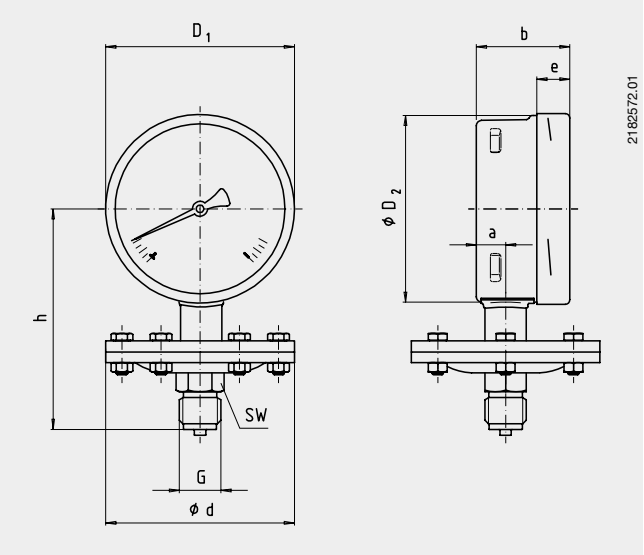
Liquid filling (for model 423.20)
Glycerine 86.5 %

Optional extras

- Other pressure connections
- 10 x overpressure safe, maximum 40 bar
- Vacuum safe up to -1 bar
- Pressure connection with DIN or ASME flange DN 15 to DN 80 (preferably DN 25, DN 50 or DN 1", DN 2" see data sheet IN 00.10)
- Alarm contacts (see data sheet AC 08.01), liquid filled: insulating oil
- Transmitter (see data sheet AE 08.02)

Dimensions in mm

Standard version



NS	Pressure range in bar	Dimensions in mm d	a	b	D_1	D_2	e	G	h ± 2	SW	Weight in kg
100	≤ 0.25	160	15.5	49.5	101	99	17.5	G ½ B	117	27	2.50
160	≤ 0.25	160	15.5	49.5	161	159	17.5	G ½ B	149	27	2.90
100	> 0.25	100	15.5	49.5	101	99	17.5	G ½ B	117	27	1.30
160	> 0.25	100	15.5	49.5	161	159	17.5	G ½ B	147	27	1.70

Standard pressure entry with parallel thread and sealing to EN 837-3 / 7.3

Ordering information
Pressure gauge model / Nominal size / Scale range / Size and location of connection / Optional extras required

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