

Capsule Pressure Gauges

Stainless Steel Series. High Overpressure Safe • Model 632.51

Pressure Gauges

Service intended

All stainless steel pressure gauge.
Particular for equipment with alarm contacts and transmitters.
Suitable for corrosive environments and gaseous media of very low pressure.

Design

EN 837-3
All welded construction of pressure element and chamber

Nominal size

100 and 160 mm

Accuracy class per EN 837-3 /6

1.6

Scale ranges per EN 837-3 /5

0 ... 2.5 to 0 ... 100 mbar
or other equivalent units of pressure or vacuum

Working pressure

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

Overpressure safety

50 x scale range 7 bar maximum

Operating temperature

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

Degree of protection

IP 54 per EN 60 529 / IEC 529

Standard features

Pressure connection (exposed to pressure medium)

Material: stainless steel 1.4571
Threaded entry per EN 837-3 /7.3
G ½ B (male), 22 mm flats

Pressure element (exposed to pressure medium)

Stainless steel 1.4571

Pressure chamber (exposed to pressure medium)

Stainless steel 1.4571

Sealing ring (exposed to pressure medium)

PTFE

Movement

Stainless steel

Dial

White aluminium with black lettering

Pointer

Adjustable black aluminium pointer



Zero adjustment

By means of adjustable pointer. Contact gauges with external zero adjustment

Case

Natural finish stainless steel with pressure vent in the back of the case

Window

Laminated safety glass

Bezel ring

Cam ring (bayonet type), natural finish stainless steel

Gauge mounting

Requires mounting by means of rigid tailpipe or gauge valve or surface mounting flange. Additional pipe or surface mounting bracket is optionally available.

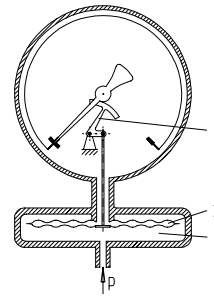
Optional extras

- Other threaded pressure connection
- Pipe or surface mounting bracket (see data sheet AM 09.07)
- Panel or surface mounting rings (consider possible conflict with pressure chamber)
- Accuracy class 0.6 or 1.0 (not all ranges)
- Extra overpressure safety (not all ranges)
- Alarm contacts (see data sheet AE 08.01)
- Transmitters (see data sheet AE 08.02)

Design and operating principle

- The sealed element chamber (1) contains the capsule element (2).
- The outer walls of the capsule element are exposed to the pressure medium.
- Any deflection of the capsule walls will be transmitted to the instruments movement and pointer (3).
- A pressure greater than maximum scale value will cause the capsule to fully collapse. The particularly shaped walls of the capsule will backup each other to provide overpressure protection.

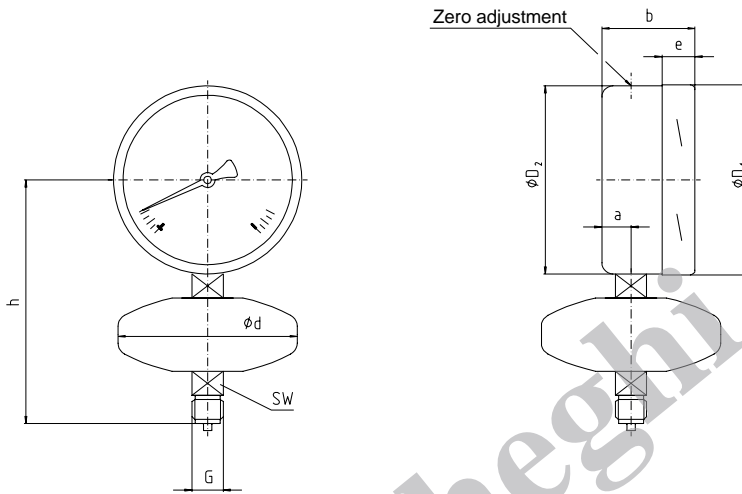
Illustration of the principle



1158 937

Dimensions

Standard version



1035 223

Nominal Size	Dimensions [mm]									Weight [kg]
	a	b	D ₁	D ₂	d	e	G	h ± 1	SW	
100	15.5	49.5	101	99	133	17.5	G ½ B	170	22	1.60
160	15.5	49.5	161	159	133	17.5	G ½ B	200	22	2.10

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

Ordering information

State:
Model / Nominal size / Scale range / Size and location of connection / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



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