Capsule pressure gauge
Stainless steel version, high overpressure safety
Model 632.51

Applications

- Pressure measurement at very low pressures
- For gaseous, aggressive media, also in aggressive ambience
- Robust design and ingress protection IP 54, suitable for outdoor use

Special features

- High overpressure safety up to 50 x full scale value
- Measuring chamber protected against unauthorised intervention
- Low measuring error and influence on function from medium pollution

Capsule pressure gauge, model 632.51

Description

Nominal size in mm
100, 160

Accuracy class
1.6

Scale ranges
0 ... 2.5 to 0 ... 100 mbar
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
50 x full scale value

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. ±0.6 %/10 K of full scale value

Ingress protection
IP 54 per EN 60529 / IEC 529

Standard version

Process connection (wetted)
Stainless steel 1.4571,
lower mount,
G ½ B (male), 22 mm flats

Pressure element (wetted)
Stainless steel 1.4571

Measuring chamber (wetted)
Stainless steel 1.4571

Sealing (wetted)
PTFE

Movement
Stainless steel

Dial
Aluminium, white, black lettering

Pointer
Adjustable pointer, aluminium, black

Zero adjustment
By means of adjustable pointer

Case
Stainless steel, with blow-out device

Window
Laminated safety glass

Bezel ring
Cam ring (bayonet type), stainless steel

Mounting by means of:
- Rigid measuring lines
- Mounting bracket for wall or pipe mounting (option)
- Mounting flange (option)

Options

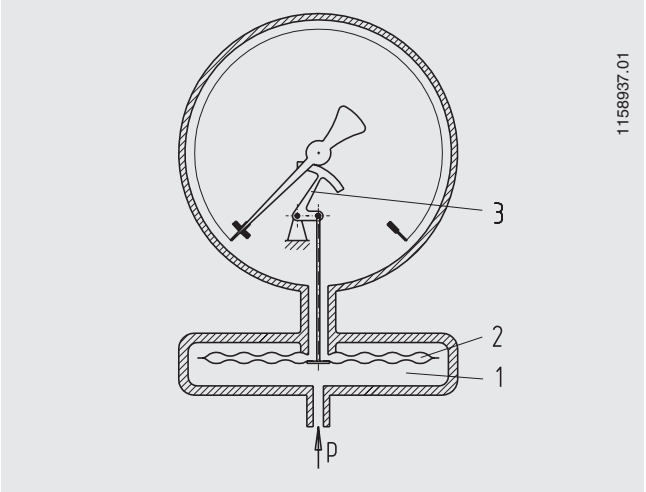
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Mounting bracket for wall or pipe mounting (data sheet AC 09.07)
- Panel or surface mounting flange (observe measuring chamber!)
- Indication accuracy class 0.6 or 1.0 [1)]
- Higher overpressure safety [1)]
- Pressure gauge with switch contacts, see data sheet PV 26.06
- Pressure gauge with electrical output signal, see model PGT63HP, data sheet PV 16.06

1) After feasibility test

Design and operating principle

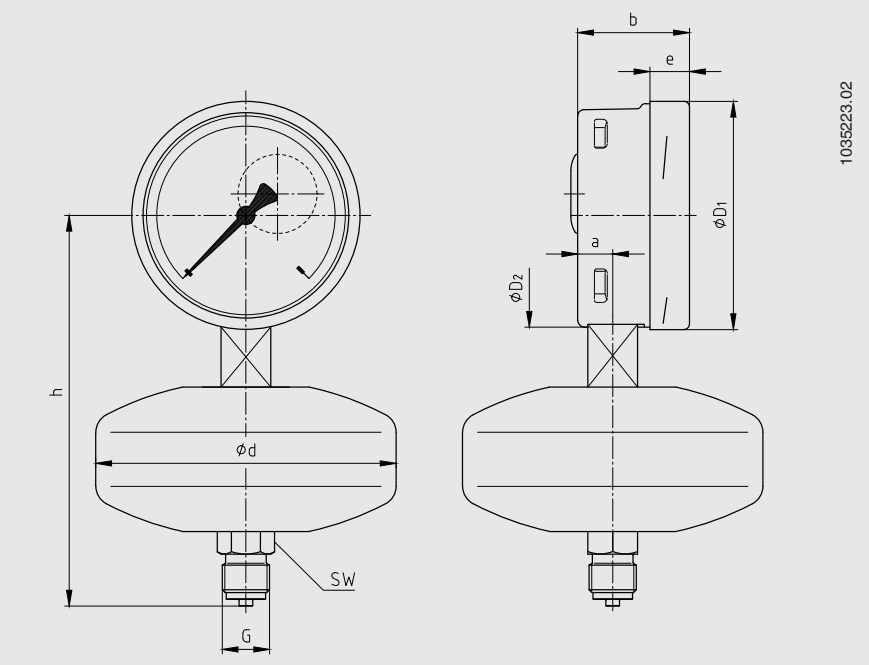
- Pressure-sealed measuring chamber (1) with capsule pressure element
- The capsule element (2) is pressurised from outside and moves in strokes (deflection)
- The deflection is transmitted to the movement (3) and indicated
- The overpressure safety is achieved through the mutually supporting surfaces of both halves of the capsule element

Illustration of the principle



Dimensions in mm

Standard version



NS	Dimensions in mm									Weight in 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	1.6
160	15.5	49.5	161	159	133	17.5	G ½ B	200	22	2.1

Process connection per EN 837-3/7.3

CE conformity

ATEX directive 1)
94/9/EC, II 2 GD c TX

Approvals

- **GOST**, metrology/measurement technology, Russia
- **GOST-R**, import certificate, Russia

Certificates 1)

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof wetted parts metal component, indication accuracy)

1) Option

Approvals and certificates, see website

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

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