



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

WIKA data sheet PM 06.06







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

 $0 \dots 2.5 \ to \ 0 \dots 100 \ mbar$ 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 $^{\circ}$ C): max. ±0.6 %/10 K of full scale value

Ingress protection

Tel.: 03303 / 504066

Fax: 03303 / 504068

IP 54 per EN 60529 / IEC 529

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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

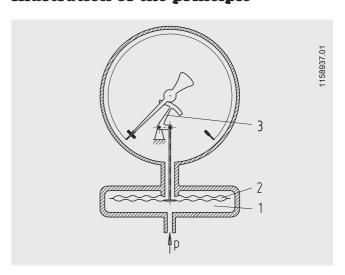
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Mounting bracket for wall or pipe mounting (data sheet AC 09.07)
- Panel or surface mounting flange (observe measuring chamber!)
- Indication accuracy class 0.6 or 1.0¹)
- Higher overpressure safety¹⁾
- Pressure gauge with 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



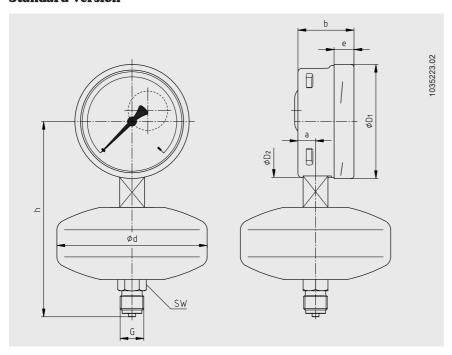
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Dimensions in mm

Standard version



NS	Dimensions in mm									Weight in kg
	a	b	$\mathbf{D_{I}}$	D_2	đ	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

94/9/EC, II 2 GD c TX

Approvals

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

Certificates

- 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)

I) Option

Approvals and certificates, see website

Ordering information

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