

Capsule pressure gauge

Housing stainless steel Art. No. 199270 to 199279 ; 199289 to 199300 and 199307 to 199313

Applications

- For gaseous, dry and non-aggressive media that do not attack copper alloys
- Gas-, Vacuum-, Environment-, Laboratory-technology, for content measurement and filter monitoring

Special features

- With zero-point correction
- Optional 10-fold overpressure proof
- Extremely low measuring ranges
- Very good price / performance ratio



Capsule pressure gauge

Description

RIEGLER capsule pressure gauges, which are suitable for low pressures and used for fine measuring ranges in gas technology are based on the proven capsule spring measuring system. Two concentrically formed membranes are joined at their outer edges by welding or soldering. One membrane has an opening at its center into which the gas to be measured can flow. The pressure created in the capsule spring causes it to arch outwards. A bell crank mounted opposite tot he input opening directs the linear motion to a pointer mechanism and converts it into a circular motion.

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Capsule pressure gauge

Housing stainless steel Art. No. 199270 to 199279 ; 199289 to 199300 and 199307 to 199313 P 2-71

Technical data

Design EN 837-3

Nominal size in mm 63, 100

Accuracy class (EN 837-3/6) 1,6

Scale ranges NS 63, NS 100 0 ... 40 mbar to 0 ... 250 mbar (10-fold overloadable, connection position radially down)

NS 100 -160 ... 0 mbar to -60 ... 0 mbar -25 ... 15 mbar to -40 ... 20 mbar (Connection position radially down)

0 ... 25 mbar to 0 ... 400 mbar (Connection position radially down or axially centric)

Pressure resilience Dormant load: full scale value Dynamic resilience: 0,9 x full scale value Overload protection: 1,3 x full scale value

Permissible temperature Medium: Tmax = +60 °C Environment: Tmin = -20 °C Tmax = +60 °C

Temperature influence Indication error in case of deviation from the normal temperature +20 °C at the measuring system: For temperature increase approximately: \pm 0,6 %/10 K, For temperature decrease approximately: \pm 0,6 %/10 K From the respective scale and value

Ingress protection per IEC / EN 60529 NS 63: IP 33 NS 100: IP 54 **Process connection** Brass, radial or axial centric NS 63 G1/4B – AF14 NS 100 G1/2B – AF22 (EN 837-3/7.3)

Measuring element Capsule spring, Copper-Berrylium alloy

Gasket NBR (Perbunan)

Pointer Aluminium, black

Window Glass

Case Stainless steel 304

Dial Aluminium, white, Black scale

Zero point setting In front

Pointer mechanism Brass

Bajonet ring Stainless steel 304

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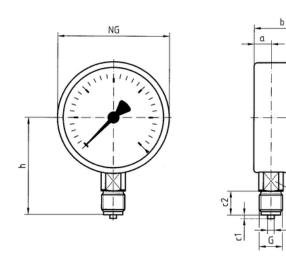


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Dimensions in mm

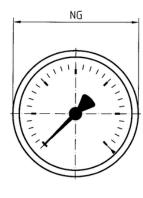
Connection radial

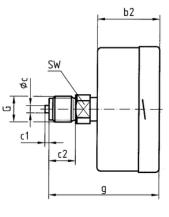


NS	Dimensions in mm								
	а	b	Øc	c ₁	C ₂	G	h	AF	
63	10,8	40	5	2	13	G ¼ B	53	14	0,24
100	15,6	49	6	3	20	G ½ B	86	22	0,60

SW

Connection axial





NS	Dimensions in mm								
	b2	Øc	C 1	C ₂	G	g	SW		
100	49	6	3	20	G ½ B	81	22	0,50	

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