

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
- 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 to the input opening directs the linear motion to a pointer mechanism and converts it into a circular motion.

Technical data**Design**

EN 837-3

Nominal size in mm

63

Accuracy class (EN 837-3/6)

1,6

Scale ranges

-160 ... 0 mbar to -60 ... 0 mbar

0 ... 40 mbar to 0 ... 400 mbar

(Connection position radially down or axially centric)

Pressure resilience

Dormant load: full scale value

Dynamic resilience: 0,9x full scale value

Overload protection: 1,3x 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 of 20 °C at the measuring system:

For temperature increase approximately: $\pm 0,6 \%/10 \text{ K}$,For temperature decrease approximately: $\pm 0,6 \%/10 \text{ K}$

from the respective full scale value

Ingress protection per IEC / EN 60529

IP 33

Process connection

Brass, radial or axial centric

G1/4B – AF14

Measuring element

Capsule spring, Copper-Beryllium alloy

Sealing

NBR (Perbunan)

Pointer

Aluminium, black

Window

Plastic, clipped-in

Case

Steel plate, black

Dial

Aluminium, white,

Black scale

Zero point setting

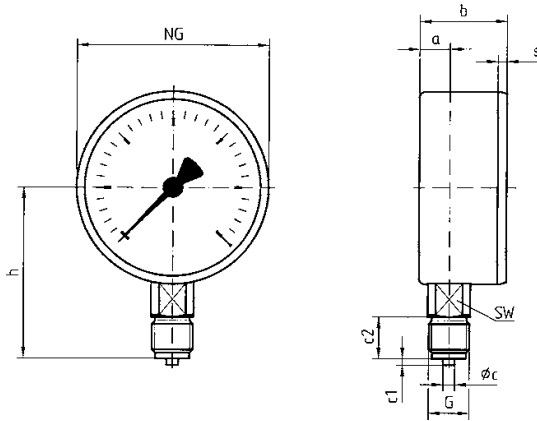
In front

Pointer mechanism

Brass

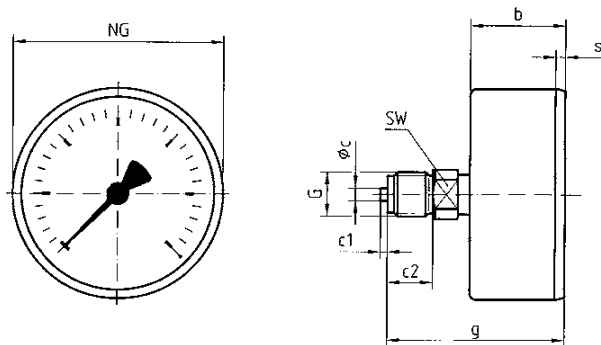
Dimensions in mm

Connection radial



NG	Dimensions in mm										Weight in kg
	a	b	ϕ_c	c ₁	c ₂	G	h	S	AF		
63	9,5	33,7	5	2	13	G ¼ B	52,7	3,7	14	0,19	

Connection axial



NG	Dimensions in mm									Weight in kg
	b	ϕ_c	c ₁	c ₂	G	g	s	AF		
63	33,7	5	2	13	G ¼ B	56,7	3,7	14	0,18	