



Description

Capsule Diaphragm Pressure Gauges are designed for accurate measurements of low-pressure ranges. They have various case designs and process connections for different industrial applications.

A modular capsule diaphragm made of copper-beryllium is the pressure sensing element of those pressure gauges. Therefore, capsule diaphragm pressure gauges are compatible with process fluids that do not wear copper-beryllium material. Under relative or vacuum pressure, the amount of capsule diaphragm's expansion or contraction is proportional to the applied pressure and this is directly transferred to the movement of the pressure gauge. The filling liquid used in the products lessens the effects of high dynamic pressure loads and vibration to the pressure gauge.

Industrial Applications

Medical applications, environmental technology, lab technology, filter monitoring, heat engineering

General Specifications

Conformity:

EN 837-3

Sizes (mm):

Ø63, Ø100

Unit:

mbar

Measurement Ranges*:

Ø63: Bottom Con. -1000/0, 0/25...1000 mbar

Back Con. -1000/0, 0/25...1000mbar

Ø100: -1000/0, 0/16...1000 mbar

Equivalent vacuum and compound gauges.

Accuracy Class:

Cl. 1.6

Working Pressure:

75% of Full Scale

Overpressure Resistance:

1.25xFull Scale

Ingress Protection Rate:

IP65

Versions:

Fillable

Glycerine Filled

Working Temperature Range:

Ambient: -20...60°C

Process: -20...60°C

Process Connections:

G1/4"B (Ø63mm)

G1/2"B (Ø100mm)

Materials:**Capsule Diaphragm:**

Copper Beryllium

Socket:

Brass

Case:

AISI 304

Cover:

AISI 304

Movement:

Brass

Window:

Ø63: Acrylic

Ø100: Safety Glass

Dial:

Aluminium

Pointer:

Aluminium

Options:

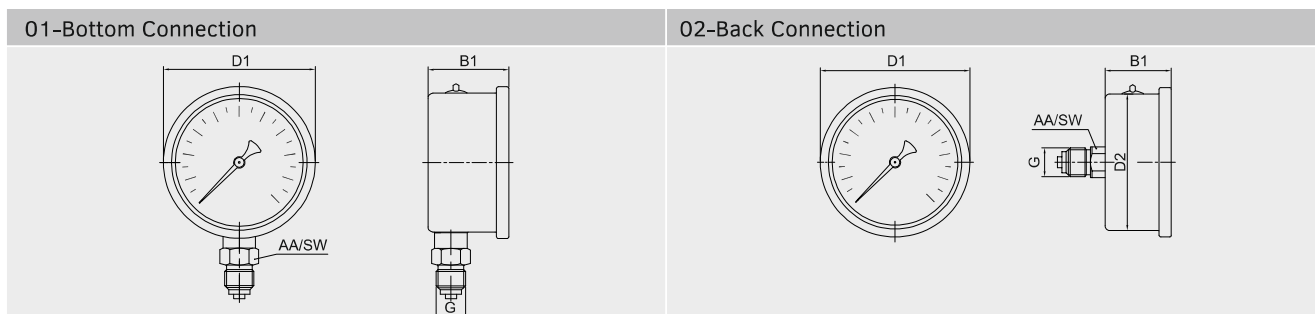
Other Process Connections

Other Pressure Units

Special Dial Design

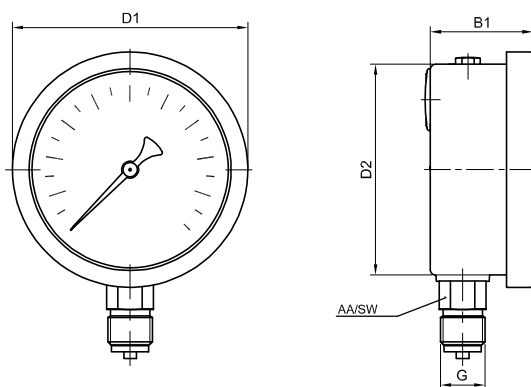
* For details, please contact sales representative.

Dimensions (mm) Ø63

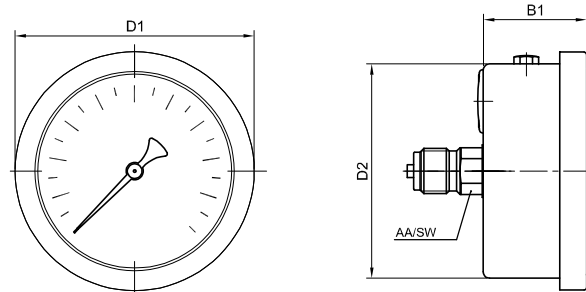


Dimensions (mm) Ø100

01-Bottom Connection



02-Back Connection



Ø	Connections	Version	Case	Window	Cover	D1	D2	B1	G	AA/SW
Ø63	Bottom	Standard	Metal	Acrylic	Acrylic	68	-	37	G1/4"	14
	Back	Standard	Metal	Acrylic	Acrylic	68	62	31,5	G1/4"	14
Ø100	Bottom	Standard	Metal	Glass	Metal	110	100	48	G1/2"	22
	Back	Standard	Metal	Glass	Metal	110	100	48	G1/2"	22



Liquid Filled Capsule Pressure Gauges

PAKKENS®

Approvals:



Turkish Standards Institution



ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



2014/68/EU Pressure Equipment Directive – Certificate of Conformity



Gost Certificate

*System and quality certifications of PAKKENS Inc.
Product and product group certifications may vary*