



## 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, Ø160

**Unit:**

mbar

**Measurement Ranges:**

Ø63: Bottom Con. -1000/0, 0/100...1000 mbar

Back Con. -1000/0, 0/160...1000mbar

Ø100, Ø160: -1000/0, 0/60...1000 mbar

and equivalent 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 (Optional: Silicone Oil)

**Working Temperature Range:**

Ambient: -20...60°C

Process: -20...60°C

Storage: -40...70°C

**Process Connections:**

G1/4"B (Ø63mm)

G1/2"B (Ø100mm, Ø160mm)

**Materials:****Capsule Diaphragm:**

Copper Beryllium

**Socket:**

Brass

**Case:**

AISI 304

**Cover:**

AISI 304

**Movement:**

Brass

**Window:**

Ø63mm: Acrylic

Ø100, Ø160: Safety Glass

**Dial:**

Aluminium

**Pointer:**

Aluminium

**Options:**

Other Process Connections

Other Pressure Units

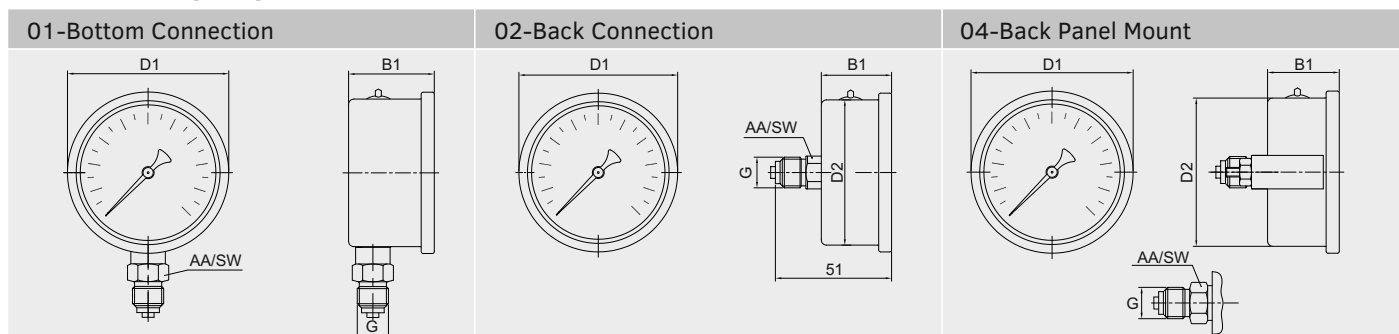
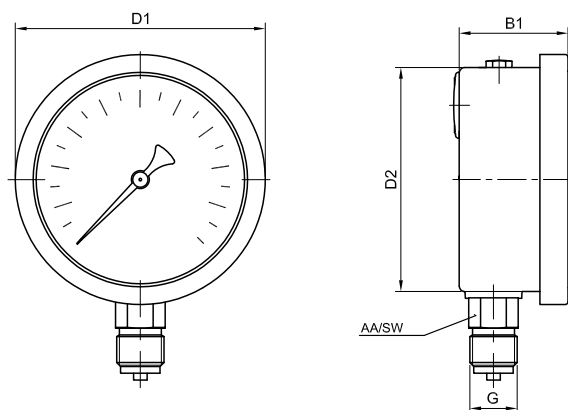
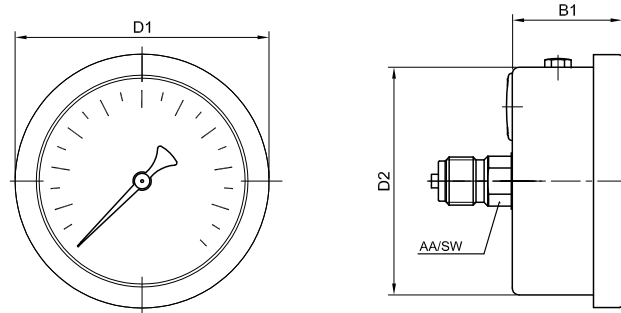
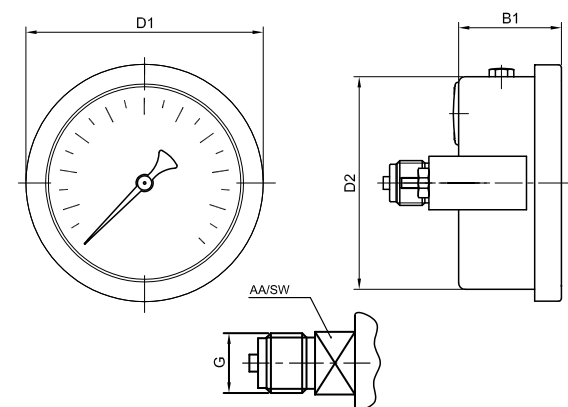
Special Dial Design

Nitrogen (N) Dial

Oxygen (O) Dial

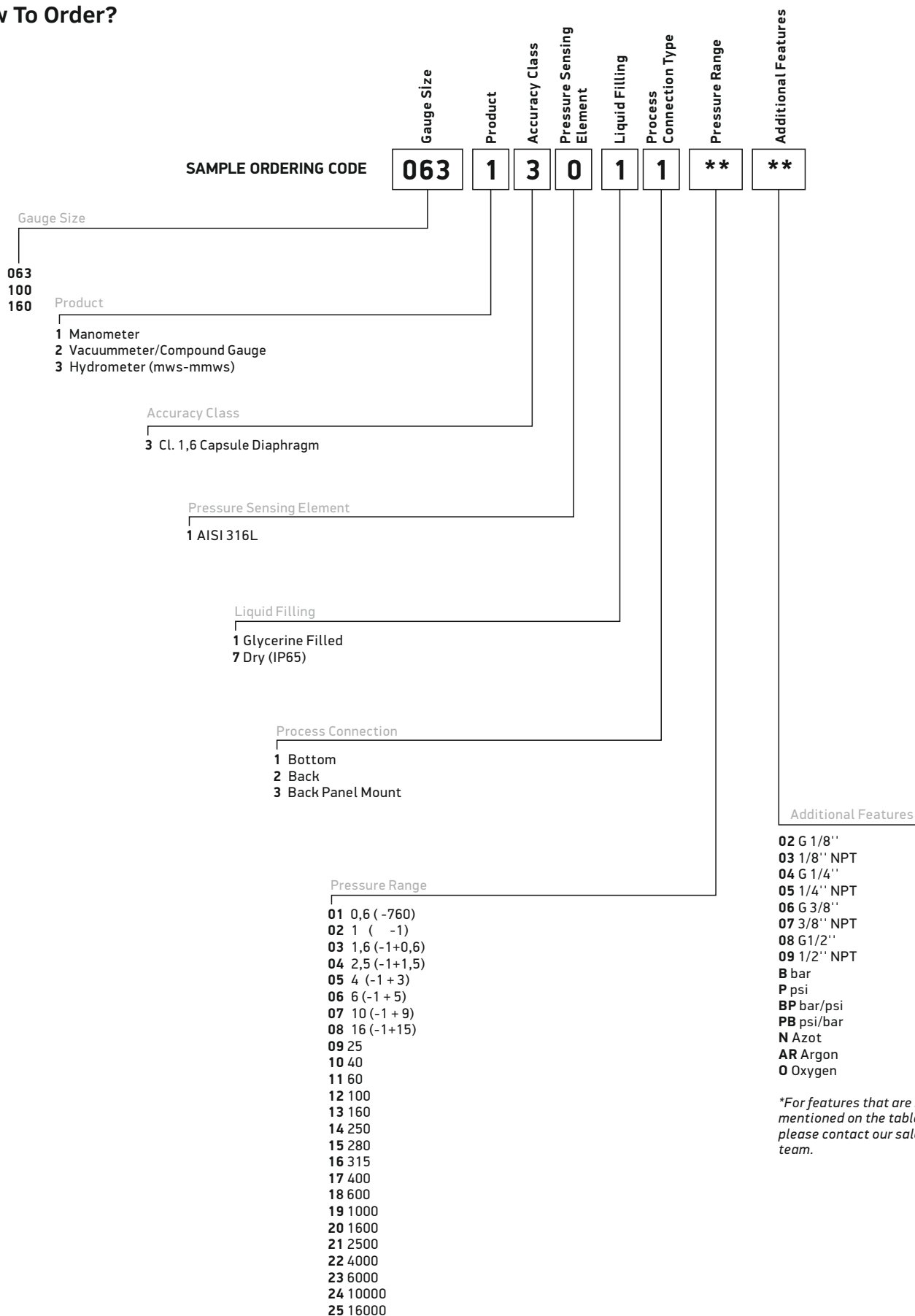
Argon (Ar) Dial

Ammonia(NH3) Dial

**Dimensions (mm) Ø63**

**Dimensions (mm) Ø100, Ø160**
**01-Bottom Connection**

**02-Back Connection**

**04-Back Panel Mount**


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
	Back Panel Mount	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
	Back Panel Mount	Standard	Metal	Glass	Metal	110	100	48	G1/2"	22
Ø160	Bottom	Standard	Metal	Glass	Metal	174	158	48	G1/2"	22
	Back	Standard	Metal	Glass	Metal	174	158	48	G1/2"	22
	Back Panel Mount	Standard	Metal	Glass	Metal	174	158	48	G1/2"	22

## How To Order?



## Approvals:

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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*