



## 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 AISI 316L is the pressure sensing element of those pressure gauges. Therefore, capsule diaphragm pressure gauges are compatible with process fluids that do not wear AISI 316L 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.

## Industrial Applications

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

## General Specifications

### Confirmity:

EN 837-3

### Sizes (mm):

Ø100, Ø160

### Unit:

mbar

### Measurement Ranges:

Ø100: -1000/0, 0/25... 1000 mbar  
Ø160: -1000/0, 0/6... 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:

IP41

### Versions:

Standard

### Working Temperature Range:

Ambient: -20...60°C  
Process: Max. 100°C  
Storage: -40...70°C

### Process Connections:

G1/2"B

### Materials:

#### Capsule Diaphragm:

1.4571

#### Socket:

AISI 316L

#### Case:

AISI 316L

#### Cover:

AISI 316L

#### Movement:

Stainless Steel

#### Window:

Glass

#### Dial:

Aluminium

#### Pointer:

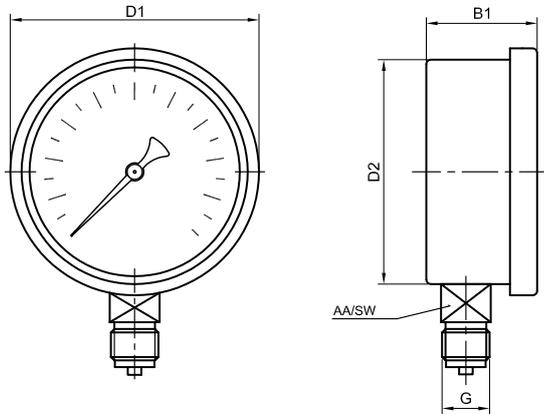
Aluminium

### Options:

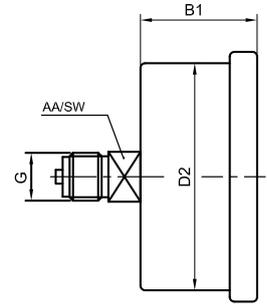
Other Process Connections  
Other Pressure Units  
Special Dial Design  
Nitrogen (N) Dial  
Oxygen (O) Dial  
Argon (Ar) Dial  
Ammonia(NH3) Dial

**Dimensions (mm)**

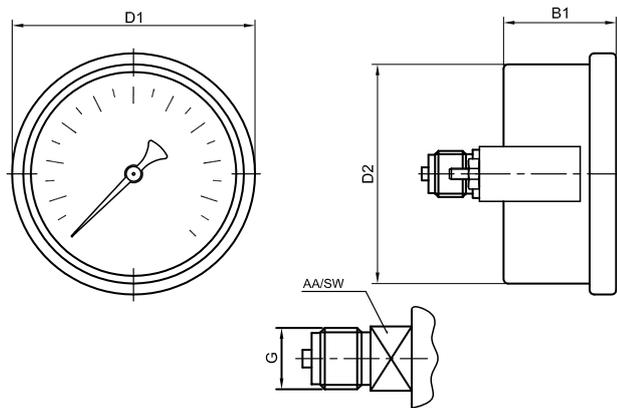
01-Bottom Connection



02-Back Connection

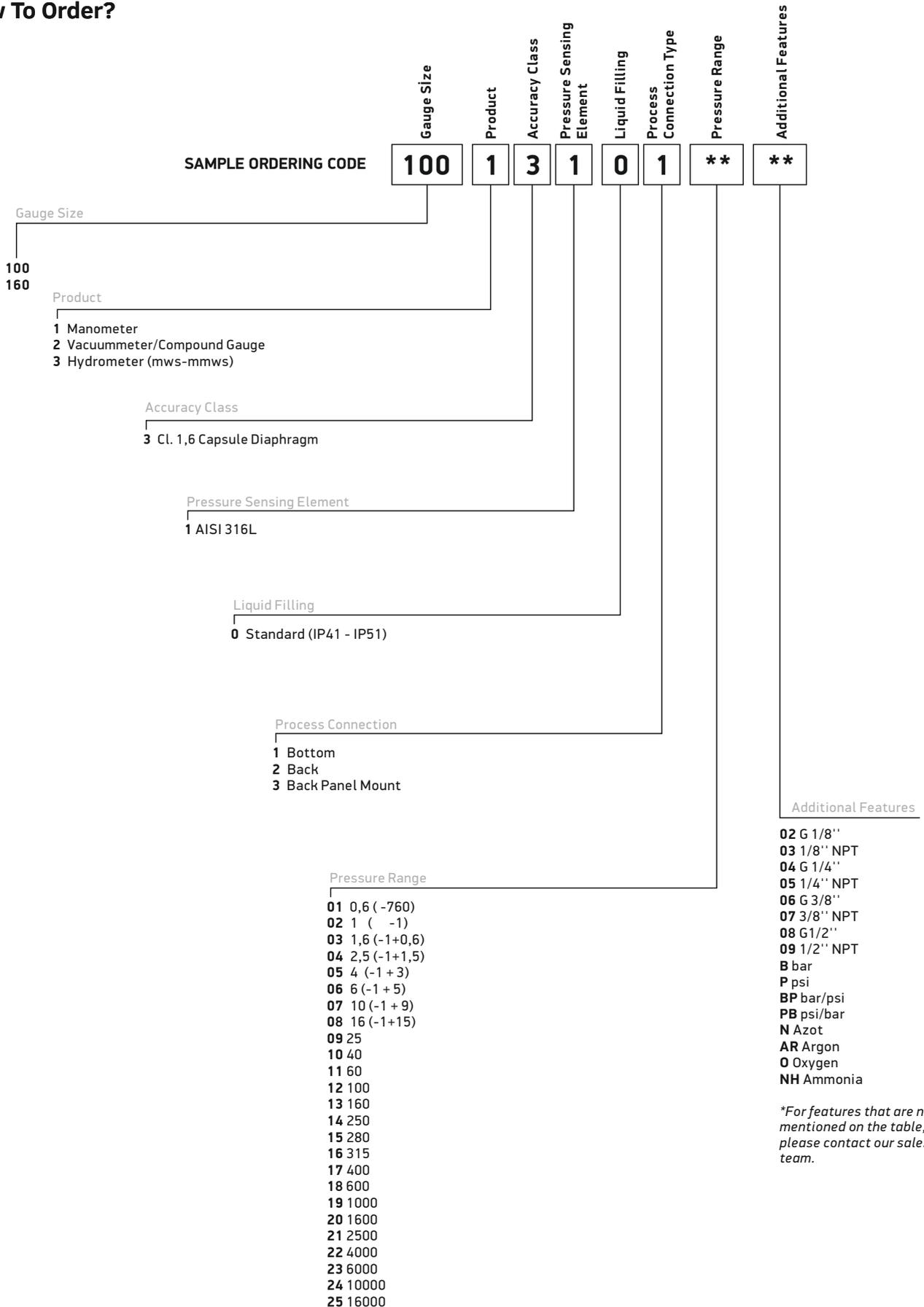


04-Back Panel Mount



Ø	Connections	Version	Case	Window	Cover	D1	D2	B1	G	AA/SW
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

EN ISO 9001

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*