



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

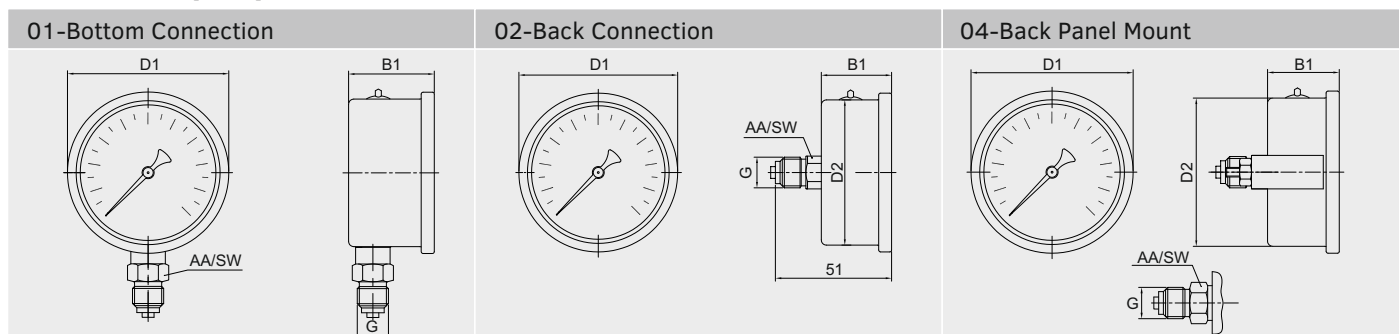
Nitrogen (N) Dial

Oxygen (O) Dial

Argon (Ar) Dial

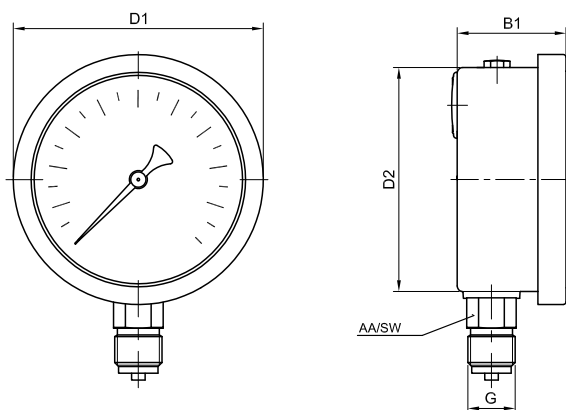
Ammonia(NH3) Dial

Dimensions (mm) Ø63

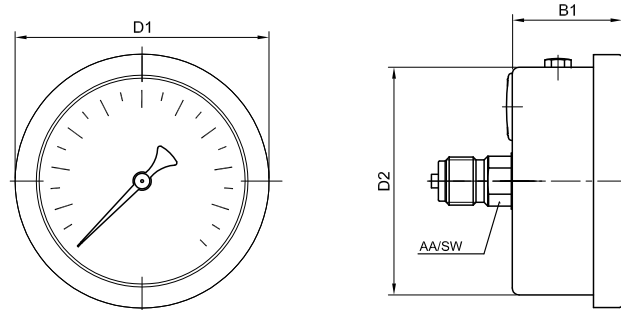


Dimensions (mm) Ø100, Ø160

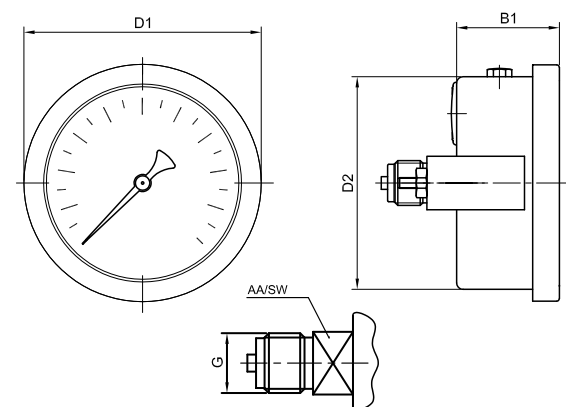
01-Bottom Connection



02-Back Connection

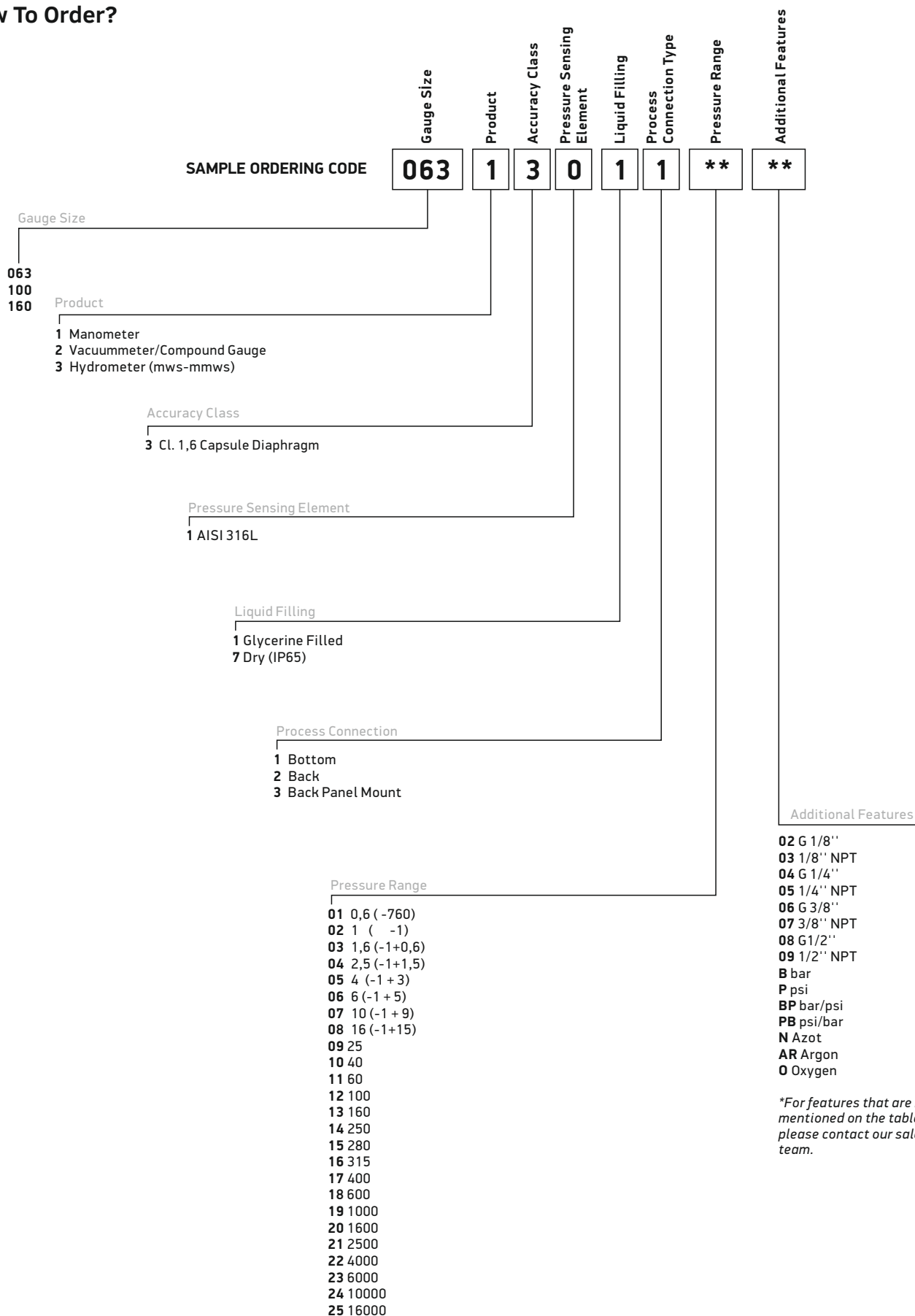


04-Back Panel Mount



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:



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*



Description

General Purpose Pressure Gauges are designed for pressure measurements in different industrial applications where high accuracy is not needed. General Purpose Pressure Gauges have various case designs and wide pressure measurement range and are all compatible with process fluids that do not attack copper alloys.

Industrial Applications

Water&Waste-Water treatment plants, machine building, HVAC systems, hydraulic and pneumatics, process lines

General Specifications

Conformity:

EN 837-1

Gauge Sizes (mm):

Ø40, Ø50, Ø63, Ø100

Unit:

bar/psi

Measurement Ranges :

Ø40 : -1/0, 0/1...400 bar (-15/0, 0/15...6000 psi)

Ø50, Ø63, Ø100 : -1/0, 0/0,6...600 bar (-15/0, 0/9...9000 psi)

Equivalent compound gauges.

Accuracy Class:

Cl 2.5 (Optional: Cl1.6)

Working Pressure:

75% of Full Scale

Overpressure Resistance:

1.25xFull Scale (Up to 100 bar)

1.15xFull Scale (From 100 bar to 600 bar)

1.1xFull Scale (Over 600 bar)

Ingress Protection Rate: IP41

Versions: Standard

Working Temperature Range:

Ambient: -20°C...60°C

Process: -20°C...60°C

Process Connections:

Ø40 : G1/8"B

Ø50 : G1/4" B, G1/8"B

Ø63 : G1/4"B

Ø100 : G1/2"B, G1/4"B

Materials:

Bourdon Tube:

Copper Alloy

Socket:

Brass

Case:

Black Painted Metal, Plastic (Black)

Cover:

Ø100mm: Black Painted Metal

Movement:

Brass

Window:

Ø40, Ø50, Ø63: Acrylic

Ø100: Glass (Opt: Acrylic)

Dial:

Aluminium

Pointer:

Plastic

(Ø50, Ø63, Ø100 Optional Aluminium)

Options:

Other Process Connections

Other Pressure Units

Special Dial Design

Dampened Movement (Vib-Lock)

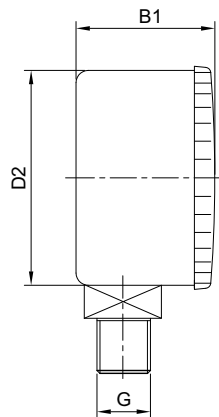
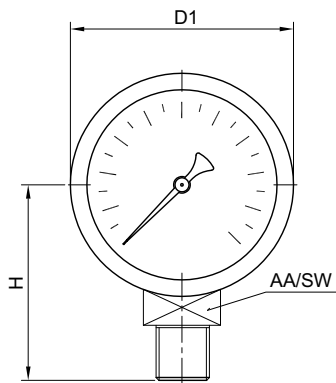
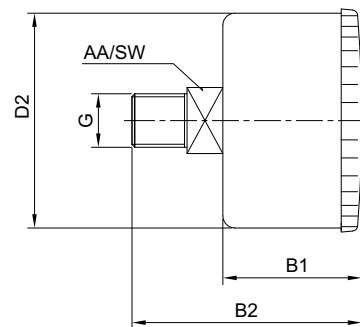
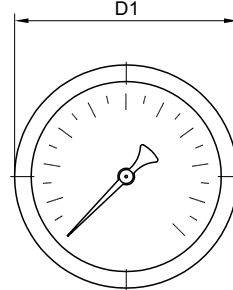
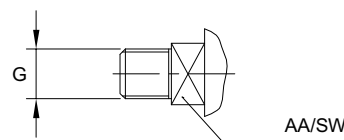
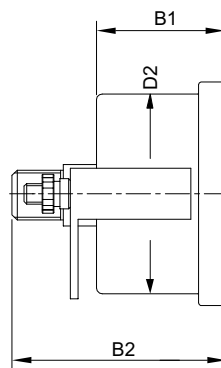
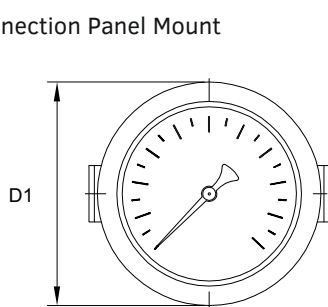
Silver Brazed

Coated Case and Pressure Sensing Element

Nitrogen (N) Dial

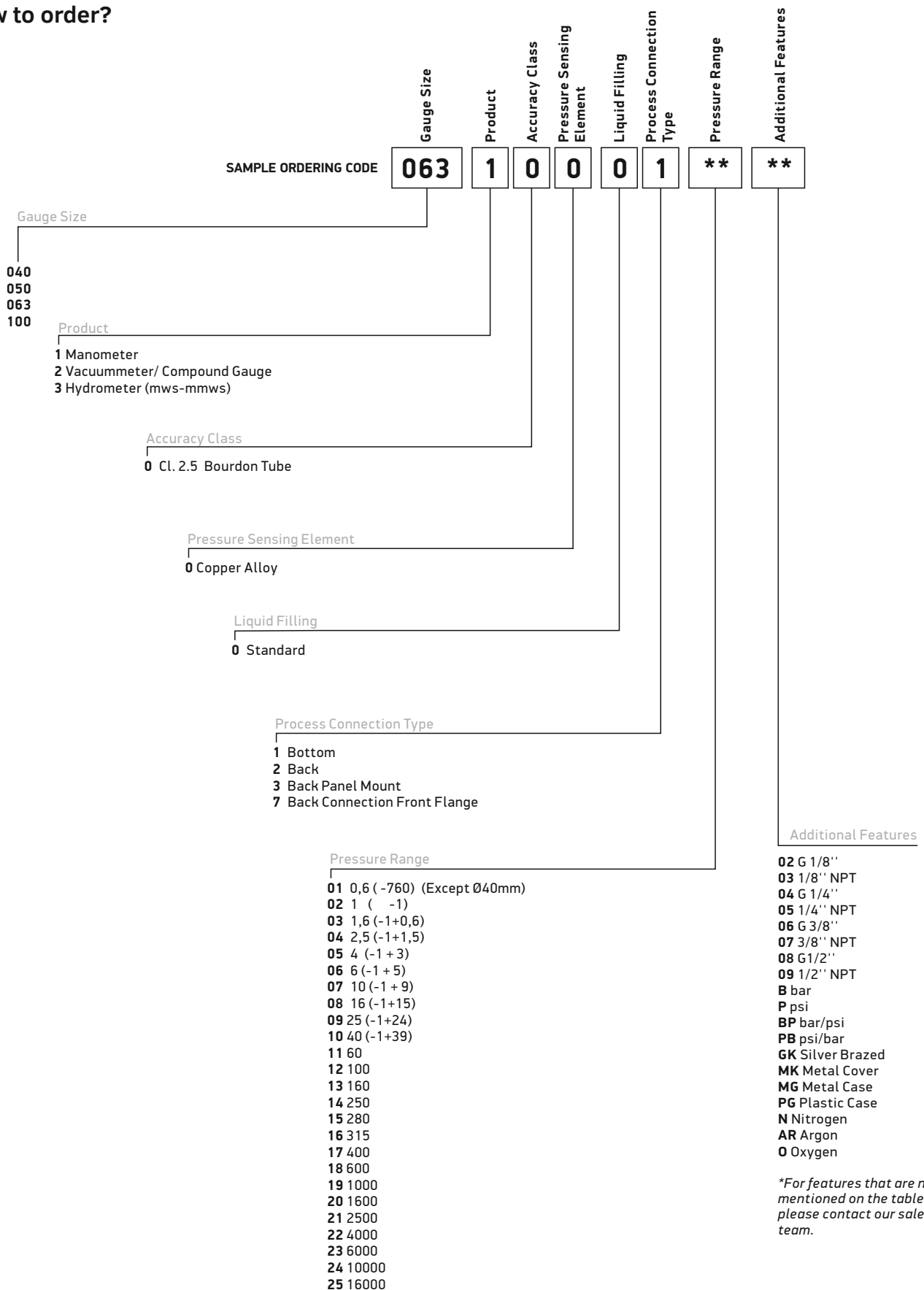
Oxygen (O) Dial

Argon (Ar) Dial

Dimensions (mm)
01-Bottom Connection

02-Back Connection

03-Back Connection Panel Mount


Ø	Connections	Version	Case	Window	Cover	D1	D2	B1	B2	H	G	SW
40	Bottom	Standard	Metal	Acrylic	-	40,5	39	24	-	35,5	G1/8"	12
	Back	Standard	Plastic	Acrylic	-	40,5	40	24	41	-	G1/8"	12
		Optional	Metal	Acrylic	-	40,5	39	24	40,5	-	G1/8"	12
	Back Panel Mount	Standard	Metal	Acrylic	Metal	43	39	24,5	41,5	-	G1/8"	12
50	Bottom	Standard	Plastic	Acrylic	-	49,2	49,8	29	-	46,8	G1/4"	14
		Optional	Metal	Acrylic	-	49,2	49,2	29	-	44	G1/4"	14
	Back	Standard	Plastic	Acrylic	-	49,2	49,8	29	51,5	-	G1/8"	14
		Optional	Metal	Acrylic	-	49,2	48	29	51,5	-	G1/8"	14
	Back Panel Mount	Standard	Metal	Acrylic	Metal	56	50	15	50,5	-	G1/4"	14
63	Bottom	Standard	Metal	Acrylic	-	62,3	62	28	-	55	G1/4"	14
		Optional	Plastic	Acrylic	-	62,3	62,3	31	-	55	G1/4"	14
			Metal	Acrylic	Metal	63	62	27	-	53	G1/4"	14
	Back	Standard	Metal	Acrylic	-	62,3	62	30	-	52,8	G1/4"	14
		Optional	Plastic	Acrylic	-	62,3	62,6	30,5	52	-	G1/4"	14
			Metal	Acrylic	Metal	63	62	30	50	-	G1/4"	14
	Back Panel Mount	Standard	Metal	Acrylic	Metal	68	62	29	49	-	G1/4"	14
100	Bottom	Standard	Metal	Glass	Metal	100	98,5	32,5	-	84	G1/2"	22
		Optional	Metal	Acrylic	-	98,8	98,5	32	-	84	G1/2"	22
	Back	Standard	Metal	Glass	Metal	100	98,5	32,5	55	-	G1/4"	14

How to order?



Approvals:



Turkish Standards Institution



ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



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



2011/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



Gost Certificate

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



Description

Liquid Filled Accurate Pressure Gauges are designed for pressure measurements in different industrial applications where high accuracy is needed. Liquid filled accurate pressure gauges have various case designs and wide pressure measurement ranges and are all compatible with process fluids that do not attack Copper Alloys and AISI 316L. The filling liquid used in the products lessens the effects of high dynamic pressure loads and vibration to the pressure gauge.

Industrial Applications

Water&Waste-Water treatment plants, machine building, HVAC systems, hydraulic and pneumatics, process lines

General Specifications

Conformity:

EN 837-1

Sizes (mm):

Ø100, Ø160

Unit:

bar/psi

Measurement Ranges:

-1/0, 0/0.6...600 bar (-15/0, 0/9...9000 psi)
Equivalent compound gauge scales

Accuracy Class:

CL 1.0

Working Pressure:

75% of Full Scale

Overpressure Resistance:

1.25xFull Scale (Up to 100 bar)
1.15xFull Scale (From 100 bar to 600 bar)
1.1xFull Scale (Over 600 bar)

Ingress Protection Rate:

IP65

Versions:

Fillable
Liquid-Filled : Glycerin (Optional: Silicone Oil)

Working Temperature Range:

Ambient: -20°C...60°C
Process: -20°C...60°C

Process Connections:

G1/2"B

Materials:

Bourdon Tube:

Copper Alloy (Up to 100 bar)
AISI 316L (Over 100 bar)

Socket:

Brass

Case:

AISI 304

Cover:

AISI 304

Movement:

Brass (Between -1/0..1,6 bar Stainless Steel)

Window:

Safety Glass

Dial:

Aluminium

Pointer:

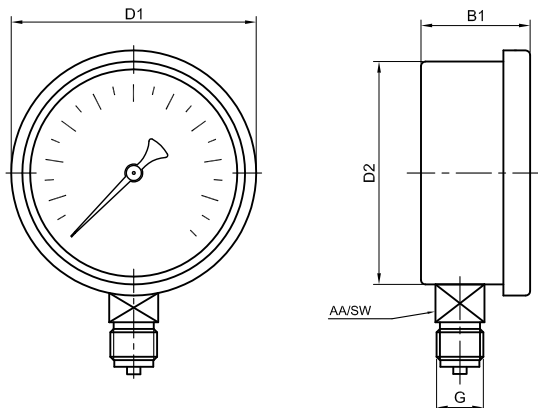
Aluminium

Options:

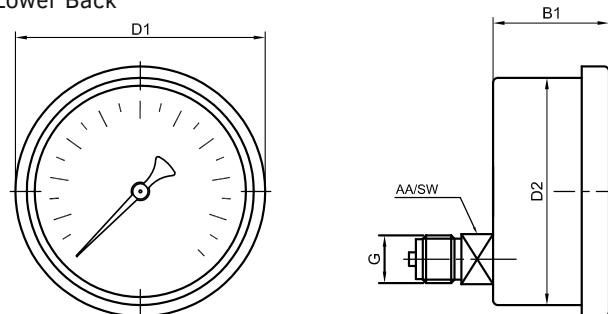
Other Process Connections
Other Pressure Units
Adjustable Pointer
Special Dial Design
Silver Braze
Coated Pressure Sensing Element
Nitrogen (N) Dial
Oxygen (O) Dial
Argon (Ar) Dial

Dimensions (mm)

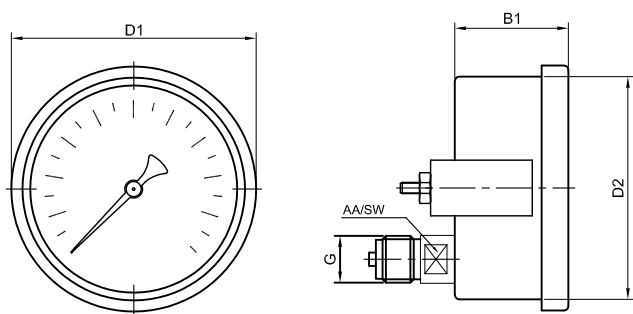
01-Bottom Connection



02-Lower Back

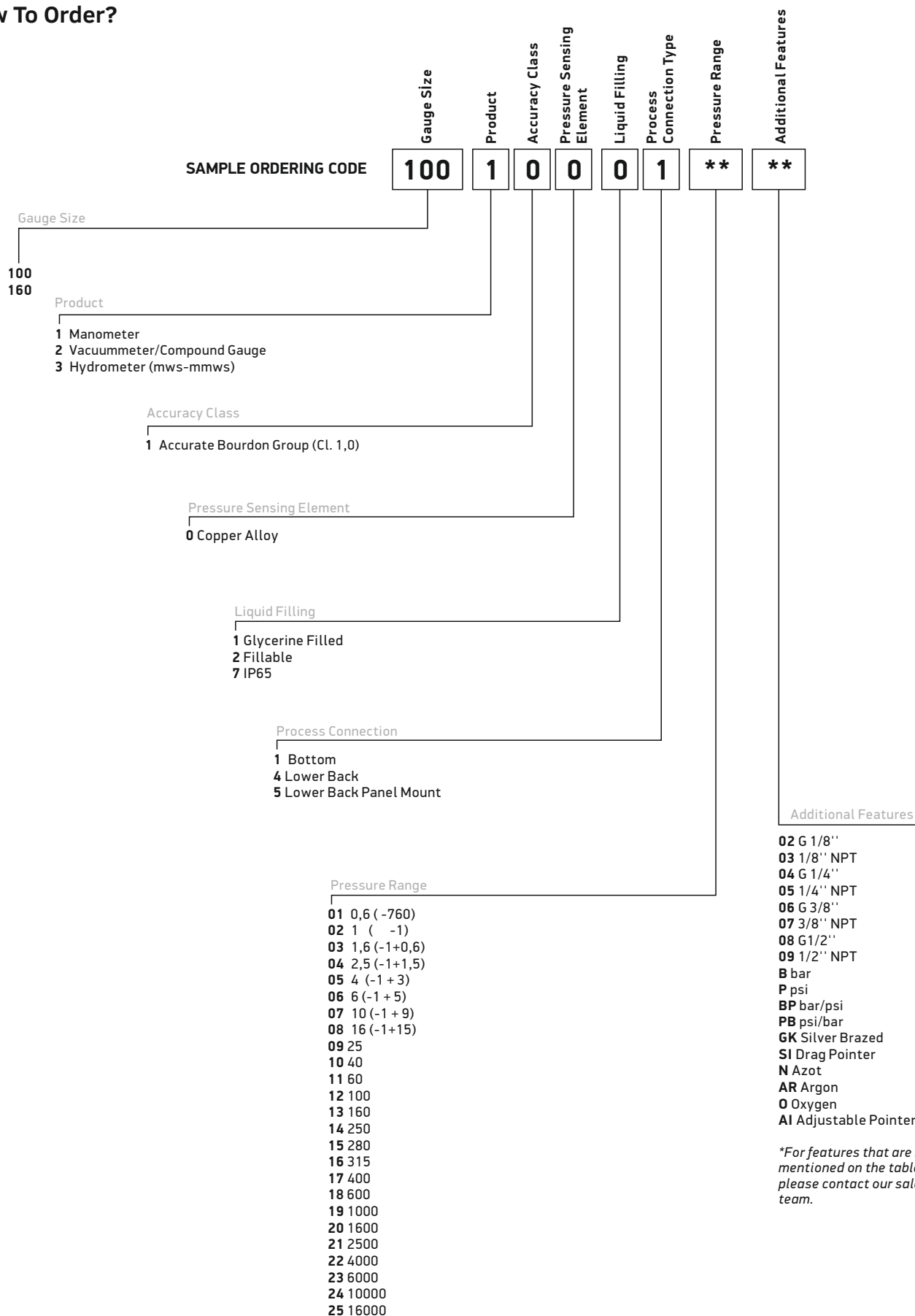


03- Lower Back Panel Mount



Ø	Connections	Version	Case	Window	Cover	D1	D2	B1	G	AA/SW
Ø100	Bottom	Standard	AISI304	Glass	AISI304	110	100	48	G1/2"	22
	Lower Back	Standard	AISI304	Glass	AISI304	110	100	48	G1/2"	22
	Lower Back Panel Mount	Standard	AISI304	Glass	AISI304	110	100	48	G1/2"	22
Ø160	Bottom	Standard	AISI304	Glass	AISI304	174	158	48	G1/2"	22
	Lower Back	Standard	AISI304	Glass	AISI304	174	158	48	G1/2"	22
	Lower Back Panel Mount	Standard	AISI304	Glass	AISI304	174	158	48	G1/2"	22

How To Order?



Approvals:



Turkish Standards Institution



ISO 9001 Quality Management System



TURKAK Calibration Laboratory Accreditation Certificate



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



211/65/EU Restriction of Hazardous Substances Directive - Declaration of Conformity



Gost Certificate



2104/34/EU Equipment and Protective Systems Intended for use in
Potentially Explosive Atmospheres - Certificate of Conformity

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