



### Description:

Diaphragm Seal Systems have been developed for protecting the measurement instrument from the dangerous process medium. PAKKENS DS-500 Series, has been designed for accurate pressure measurements in different industrial applications where the process medium can be highly viscous, aggressive, or hot. Due to the wide measurement range, CL 1.0 Accuracy Class, and wide operating temperature range, the product has become a reliable and robust one for the pressure measurement of fluids that do not attack AISI 316L.

### Industrial Applications:

Petrochemicals and Chemicals, Paper Processing, Cement Manufacturing, Mining Industry Machine Building, Hydraulic Systems, etc.

### General Specifications:

**Conformity:**  
EN 837-1

**Gauge Sizes (mm):**  
Ø100, Ø160

**Measurement Ranges:**  
0500 00 Series: -1/0, 0/0.6...1.6 bar  
0500 20 Series: 0/2,5...1.60 bar  
0500 40 Series: 0/250...600 bar

**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

**Diaphragm Seal Filling Liquid:**  
Silicone Oil

**Versions:**  
Standard, Fillable, Liquid Filled (Glycerin or Silicone Oil)

**Working Temperature Ranges:**  
Process: -20°C...150°C  
Ambient: 10°C...40°C  
Storage: -40°C...70°C

**Process Connection:**  
G1/2"B

#### Materials:

##### Bourdon Tube

AISI 316L

##### Socket:

AISI 316L

##### Diaphragm Seal:

AISI 316L (Optional: Monel 400, PTFE coated)

##### Pressure Sensing Diaphragm:

AISI 316L

##### Case

AISI 316L

##### Cover:

AISI 316L

##### Movement:

Stainless Steel

##### Window:

Laminated Safety Glass

##### Dial:

Aluminium

##### Pointer:

Aluminium

#### Options:

Other Process Connections

Other Pressure Units

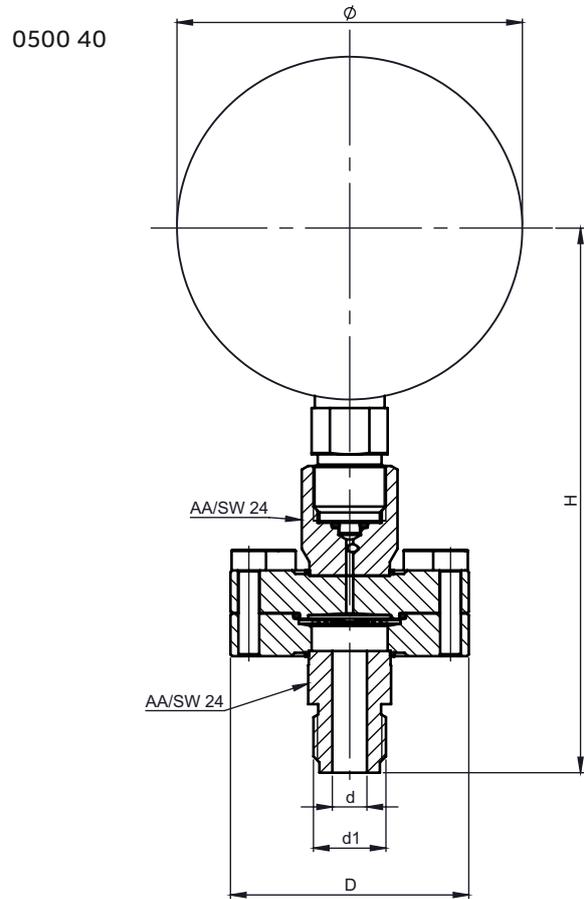
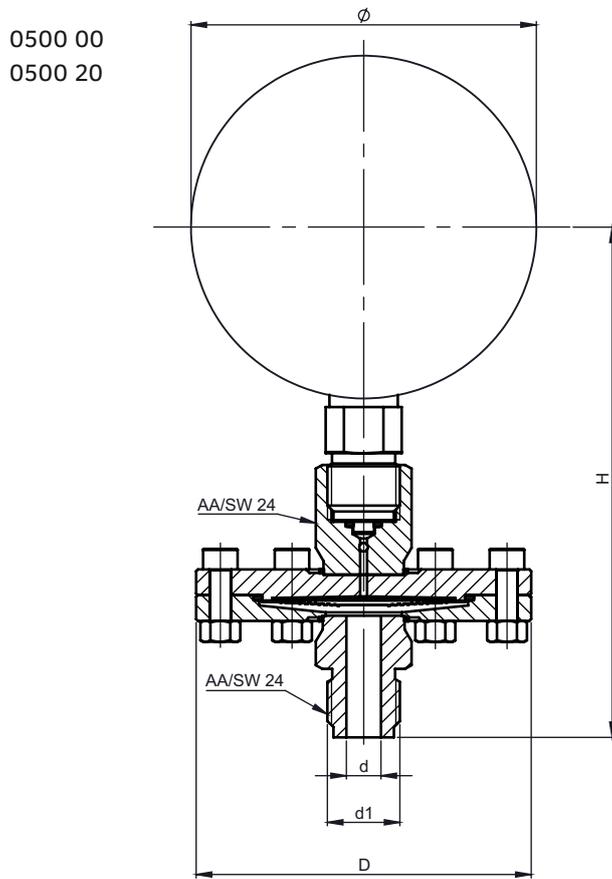
Special Dial Desing

Vib-Lock Movement

Adjustable Pointer

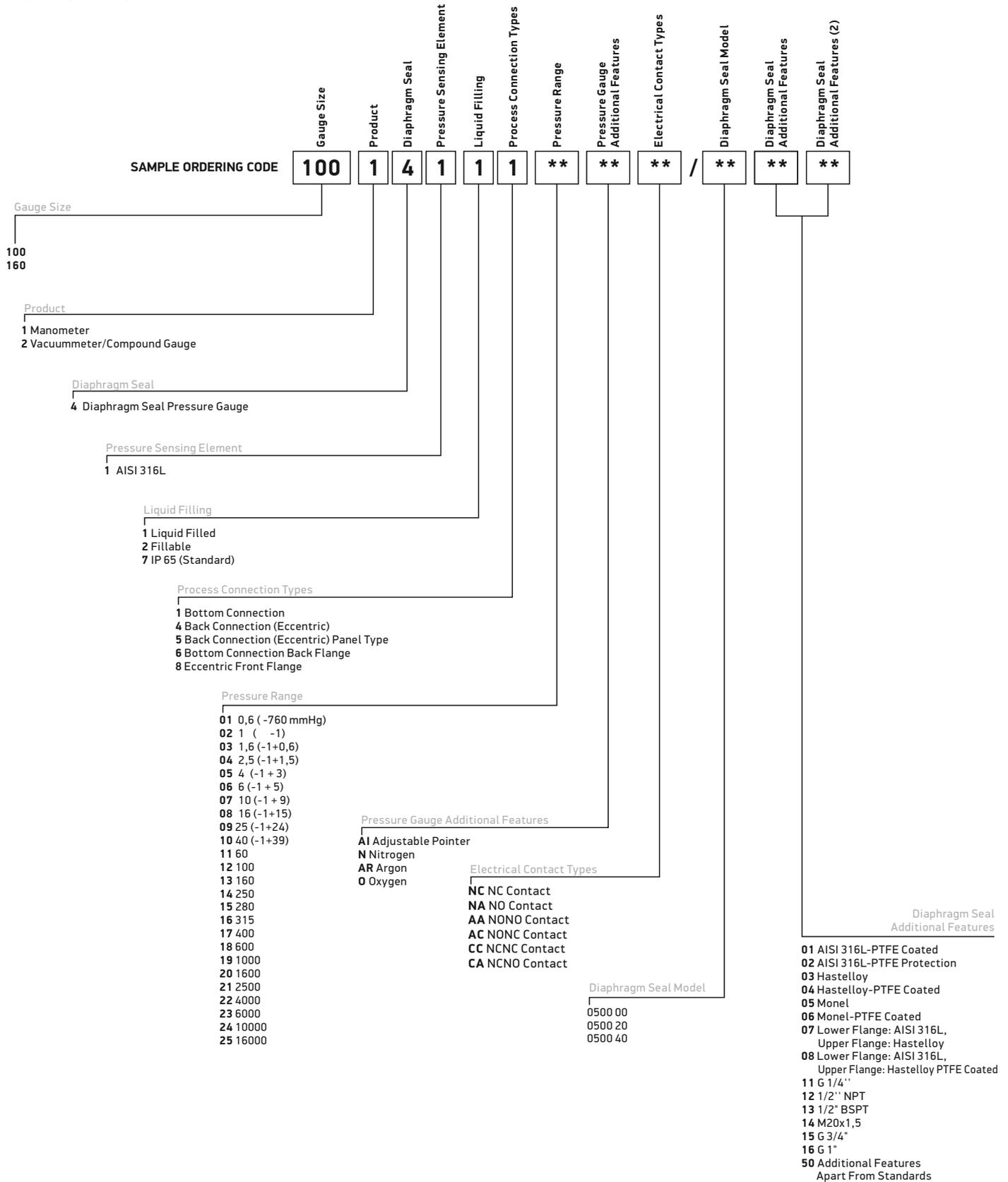
Electrical Contact

**Dimensions (mm):**



Model #	Ø	Diaphragm Diameter	D	d	d1	H
0500 00	100	57.5	97	10	G1/2"	149
	160	57.5	97	10	G1/2"	178
0500 20	100	46	69	10	G1/2"	149
	160	46	69	10	G1/2"	178
0500 40	100	28.3	69	10	G1/2"	159
	160	28.3	69	10	G1/2"	189

## 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



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*