

# Compact design diaphragm seal pressure gauge

## Model: P701 series

Spec. sheet no. **PD07-01**

### Service intended

P701 series are designed for diaphragm seal to be combined with a pressure gauge.  
It is suitable for corrosive, contaminated, hot or viscous pressure media in chemical and food process.



### Design

Internal diaphragm, upper and under flange welded  
no sealing and compact design

### Accuracy

P2522 (63 mm) and P2523 (80 mm) :  $\pm 1.6\%$  of full scale  
P2524 (100 mm) :  $\pm 1.0\%$  of full scale

### Scale range (MPa, kPa, bar)

-0.1 ~ 0 to -0.1 ~ 2.4 Mpa  
0 ~ 0.1 to 0 ~ 25 Mpa

### Filling liquid

Silicone oil

### Working pressure

Steady : 75% of full scale (63 mm, 80 mm)  
100% of full scale (100 mm)  
Over range protection : 130% of full scale

### Working temperature

Ambient : -20 ~ 65°C  
Fluid : Max. 100°C

### Degree of protection

EN60529/IEC529/IP65



## Standard features

### Pressure connection (Gauge side)

Stainless steel (316SS)

### Process connection

$\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ " PT, NPT and PF  
 $\frac{1}{4}$ " PT and NPT (F)

### Diaphragm

316L SS, Hastelloy-C, Tantalum, Monel

### Diaphragm outer diameter

40 or 48 mm

### Under flange ( Process side )

316SS, 316L SS, Monel, Hastelloy-C

**1. Base model****P701** Compact design diaphragm seal pressure gauge**2. Nominal diameter****XX** Refer to gauge model and mounting type table**3. Upper flange / diaphragm material**

**J** 316SS / 316L SS  
**K** 316SS / Monel  
**L** 316SS / Hastelloy-C  
**N** 316SS / Tantalum

**4. Process connection type**

**CC** ¼" PT  
**BC** ⅜" PT  
**BD** ⅜" NPT  
**EC** ½" PT  
**ED** ½" NPT  
**CP** ¼" PT (F)

**5. Unit**

**H** bar  
**I** MPa  
**J** kPa

**6. Range****XXX** Refer to pressure range table (Max : 25 MPa)**7. Under flange material**

**E** 316L SS  
**F** Monel  
**G** Hastelloy-C

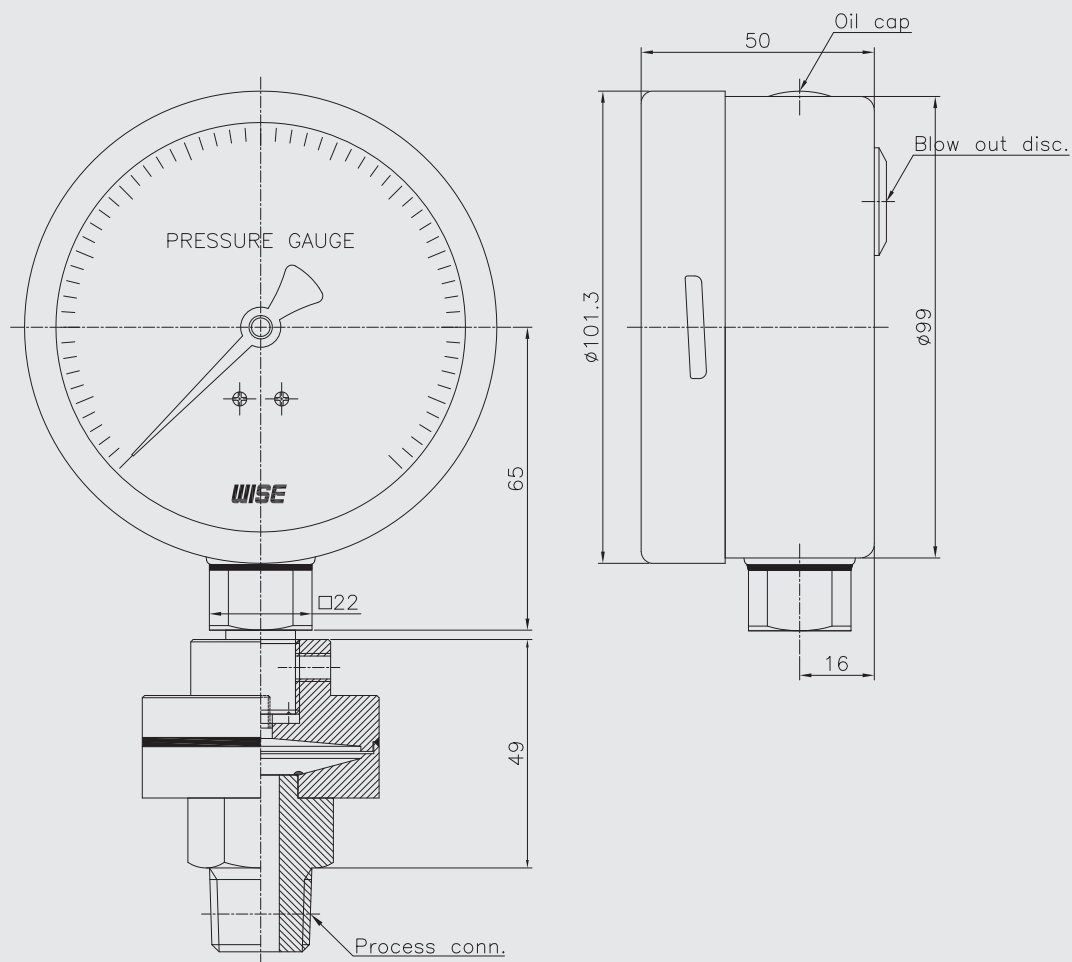
**8. Options**

**0** None  
**1** Accessories

1	2	3	4	5	6	7	8
P701	XX	J	CC	H	XXX	E	0

Sample  
ordering code

## P701 : Type of mounting



## Pressure unit and range table

Range and code	Unit and code		
	H : bar	J : kPa	I : MPa
041	0 ~ 1	0 ~ 100	0 ~ 0.1
042	0 ~ 2	0 ~ 200	0 ~ 0.2
043	0 ~ 3	0 ~ 300	0 ~ 0.3
044	0 ~ 4	0 ~ 400	0 ~ 0.4
045	0 ~ 6	0 ~ 600	0 ~ 0.6
047	0 ~ 10	0 ~ 1,000	0 ~ 1
050	0 ~ 15	X	0 ~ 1.5
051	0 ~ 20	X	0 ~ 2
052	0 ~ 25	X	0 ~ 2.5
054	0 ~ 35	X	0 ~ 3.5
055	0 ~ 50	X	0 ~ 5
057	0 ~ 70	X	0 ~ 7
058	0 ~ 100	X	0 ~ 10
059	0 ~ 150	X	0 ~ 15
062	0 ~ 250	X	0 ~ 25
028	-1 ~ 2	-100 ~ 200	-0.1 ~ 0.2
029	-1 ~ 3	-100 ~ 300	-0.1 ~ 0.3
030	-1 ~ 4	-100 ~ 400	-0.1 ~ 0.4
031	-1 ~ 6	-100 ~ 600	-0.1 ~ 0.6
032	-1 ~ 10	-100 ~ 1,000	-0.1 ~ 1
033	-1 ~ 15	X	-0.1 ~ 1.5
034	-1 ~ 20	X	-0.1 ~ 2
017	-1 ~ 24	X	-0.1 ~ 2.4

O : Available    X : Not available

## Available gauges model and mounting type table - 5<sup>th</sup> and 6<sup>th</sup> characters

7A	P252 63A	7P	P258 63A
7F	P252 63F	7E	P258 63F
7G	P252 63G	7T	P258 63G
7U	P252 80A	8U	P258 80A
7V	P252 80G	8V	P258 80G
8A	P252 100A	8P	P258 100A