

# Sanitary pressure gauge

## Model: P750 series

Spec. sheet no. PD07-04

### Service intended

P750 series have diaphragm seal to be combined with a pressure gauge. These series are suitable to be used for the situation where corrosive, contaminated, hot, and viscous pressure mediums are present, and it could be used for a chemical, food, beverage, biochemical, and pharmaceutical industry.



### Nominal diameter

63, 80 and 100 mm

### Accuracy

63 and 80 mm :  $\pm 1.6$  % of full scale

100 mm :  $\pm 1.0$  % of full scale

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

Steady : 75 % of full scale (63 and 80 mm)

100 % of full scale (100 mm)

Over range protection : 130 % of full scale

### Working pressure

Steady : 75 % of full scale

Over range protection : 130 % of full scale

### Working temperature

Ambient : -20 ~ 65 °C

Fluid : Max. 121 °C

### Temperature effect

Accuracy at temperature above and below the reference temperature (20 °C) will be effected by approximately  $\pm 0.5$  % per 10 °C of full scale



Model : P751



Model : P752



Model : P753



Model : P754



Model : P755



Model : P756

## Standard features

### Process connection

316SS

P751 : 1½" and 2" Nut

P752 : 1", 1½", 2", clamp connection

P753 : PF¾", PF1", PF1½", male screw

P754 : Standard and non standard flange

P755 : Homogenizer

P756 : Homogenizer flange (95 x 43 x 28 mm)

### System filling

Food grade oil (FDA certified)

### Certificates

ATEX Ex II GD c IIC TX

### Body

Stainless steel (316SS)

### Diaphragm

Stainless steel (316L SS)

Electropolished diaphragm

Ra 12 ~ 20  $\mu$ m

**1. Base model**

- P751** Nut type sanitary pressure gauge
- P752** Clamp (IDF flange) type sanitary pressure gauge
- P753** Male screw type sanitary pressure gauge
- P754** Cooling fin type sanitary pressure gauge
- P755** Homogenizer type sanitary pressure gauge
- P756** Homogenizer flange type sanitary pressure gauge

**2. Gauge model and mounting type**

- 7A** 63 mm, bottom connection
- 7U** 80 mm, bottom connection
- 8A** 100 mm, bottom connection
- 7G** 63 mm, lower back connection, only available with P751 and P752
- 7V** 80 mm, lower back connection, only available with P751 and P752
- 8G** 100 mm, lower back connection, only available with P751 and P752
- 7P** 63 mm, bottom connection, liquid filling
- 8U** 80 mm, bottom connection, liquid filling
- 8P** 100 mm, bottom connection, liquid filling
- 7T** 63 mm, lower back connection, only available with P751 and P752, liquid filling
- 8V** 80 mm, lower back connection, only available with P751 and P752, liquid filling
- 8T** 100 mm, lower back connection, only available with P751 and P752, liquid filling

**3. Body and process connection material, pocket length**

- D** 316SS

**4. Process connection**

- NA** 1" Nut(IDF), only available with P751
- NB** 1½" Nut(IDF), only available with P751
- NC** 2" Nut(IDF), only available with P751
- ND** 1" Nut(DIN), only available with P751
- NE** 1½" Nut(DIN), only available with P751
- NF** 2" Nut(DIN), only available with P751
- FB** ¾"PF, only available with P753
- GB** 1"PF, only available with P753
- JB** 1½"PF, only available with P753
- GN** 1" Clamp, only available with P752
- JN** 1½" Clamp, only available with P752
- KN** 2" Calmp, only available with P752
- MN** 2.5", only available with P752
- LN** 3", only available with P752
- PU** Homogenizer, only available with P755
- PS** Homogenizer flange (95 x 43 x 28), only available with P756
- PN** Standard flange, only available with P754
- PM** Non standard flange, only available with P754 (See note2)
- ZZ** Other

- Note 1. Max. temperature and process of pressure medium must be specified on order sheet.
- 2. Flange size will be specified on order sheet.

**5. Unit**

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

**6. Range**

- XXX** Refer to pressure range table

**7. Diaphragm material**

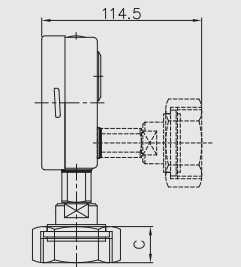
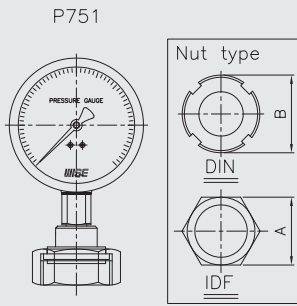
- E** 316L SS

**8. Options**

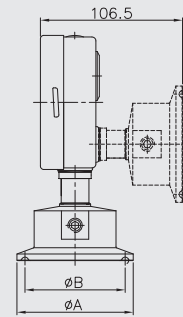
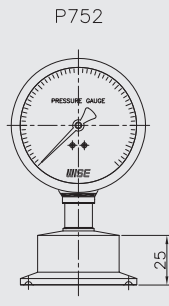
- 0** None
- 1** Accessories

1	2	3	4	5	6	7	8	Sample ordering code
P751	1A	D	FB	H	XXX	E	0	

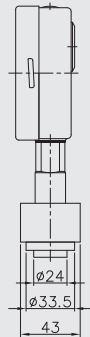
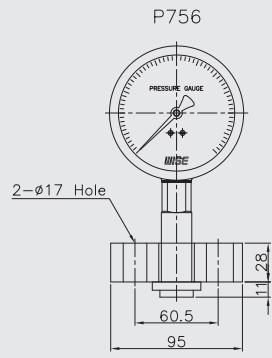
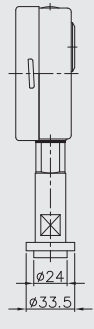
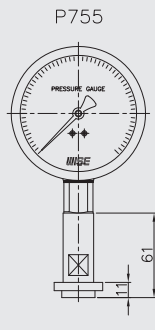
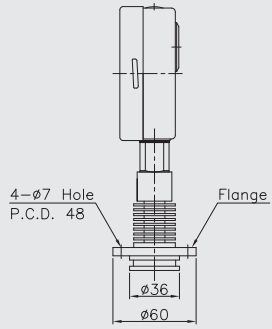
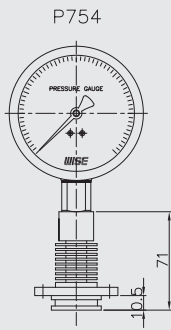
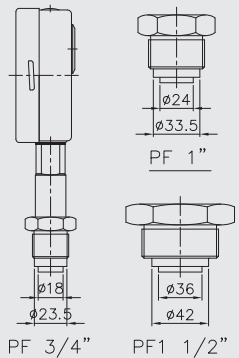
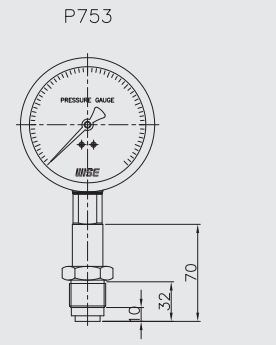
# P75X : Type of mounting



Type	1"	1.5"	2"	2.5"
DIN	A 45	56	75	90
	C 21	21	22	26
IDF	B 63	78	92	112
	C 30	30	30	30



Size	3/4"	1"	1.5"	2"	2.5"	3"
A	25	50.5	50.5	64	77.5	91
B	19.5	43.5	43.5	56.5	70.5	83.5



## Pressure unit and range table

Range and code	Unit and code			P751		P752			P753			P754	P755	P756
	H : bar	J : kPa	I : MPa	1½"	2"	1"	1½"	2"	PF ¾"	PF 1"	PF 1½"			
041	0 ~ 1	0 ~ 100	0 ~ 0.1	X	O	X	O	O	X	X	X	X	X	X
133	0 ~ 1.6	0 ~ 160	0 ~ 0.16	X	O	X	X	O	X	X	X	X	X	X
042	0 ~ 2	0 ~ 200	0 ~ 0.2	O	O	O	O	O	X	X	X	O	X	X
134	0 ~ 2.5	0 ~ 250	0 ~ 0.25	X	O	X	X	O	X	X	X	X	X	X
043	0 ~ 3	0 ~ 300	0 ~ 0.3	O	O	O	O	O	X	X	X	O	X	X
044	0 ~ 4	0 ~ 400	0 ~ 0.4	O	O	O	O	O	X	X	O	O	X	X
045	0 ~ 6	0 ~ 600	0 ~ 0.6	O	O	O	O	O	X	X	O	O	X	X
047	0 ~ 10	0 ~ 1,000	0 ~ 1	O	O	O	O	O	X	X	O	O	X	X
050	0 ~ 15	X	0 ~ 1.5	O	O	O	O	O	X	X	O	O	X	X
051	0 ~ 20	X	0 ~ 2	O	O	O	O	O	X	X	O	O	X	X
052	0 ~ 25	X	0 ~ 2.5	O	O	O	O	O	X	X	O	O	X	X
054	0 ~ 35	X	0 ~ 3.5	O	O	O	O	O	X	O	O	O	X	X
055	0 ~ 50	X	0 ~ 5	O	O	O	O	O	X	O	O	O	X	X
057	0 ~ 70	X	0 ~ 7	X	X	X	X	X	O	O	O	O	O	O
058	0 ~ 100	X	0 ~ 10	X	X	X	X	X	O	O	O	O	O	O
059	0 ~ 150	X	0 ~ 15	X	X	X	X	X	O	O	O	X	O	O
062	0 ~ 250	X	0 ~ 25	X	X	X	X	X	O	O	O	X	O	O
064	0 ~ 350	X	0 ~ 35	X	X	X	X	X	O	O	O	X	O	O
065	0 ~ 400	X	0 ~ 40	X	X	X	X	X	O	O	O	X	O	O
066	0 ~ 500	X	0 ~ 50	X	X	X	X	X	O	O	O	X	O	O
027	-1 ~ 1	-0.1 ~ -0.1	-100~100	X	O	X	O	O	X	X	O	X	X	X
127	-1 ~ 1.6	-0.1 ~ -0.16	-100~160	X	O	X	O	O	X	X	O	X	X	X
028	-1 ~ 2	-0.1 ~ -0.2	-100~200	X	O	X	O	O	X	X	O	X	X	X
129	-1 ~ 2.5	-0.1 ~ -0.25	-100~250	X	O	X	O	O	X	X	O	X	X	X
029	-1 ~ 3	-0.1 ~ -0.3	-100~300	X	O	X	O	O	X	X	O	X	X	X
030	-1 ~ 4	-0.1 ~ -0.4	-100~400	X	O	X	O	O	X	X	O	X	X	X
010	-1 ~ 5	-0.1 ~ -0.5	-100~500	X	O	X	O	O	X	X	O	X	X	X
031	-1 ~ 6	-0.1 ~ -0.6	-100~600	X	O	X	O	O	X	X	O	X	X	X
014	-1 ~ 9	-0.1 ~ -0.9	-100~900	X	O	X	O	O	X	X	O	X	X	X
032	-1 ~ 10	-0.1 ~ -1	-100~1000	X	O	X	O	O	X	X	O	X	X	X
033	-1 ~ 15	-0.1 ~ -1.5	X	X	O	X	O	O	X	X	O	X	X	X
034	-1 ~ 20	-0.1 ~ -0.1	X	X	O	X	O	O	X	X	O	X	X	X
035	-1 ~ 1	-0.1 ~ -0.1	X	X	O	X	O	O	X	X	O	X	X	X

O : Available    X : Not available