

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 mm, 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 : $-20 \sim 65^{\circ}\text{C}$

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

Body

Stainless steel (316SS)

Diaphragm

Stainless steel (316L SS)

Electropolished diaphragm

Ra $12 \sim 20 \mu\text{m}$

Process connection

316SS

P751 : $1\frac{1}{2}$ " and 2" Nut

P752 : 1", $1\frac{1}{2}$ ", 2", clamp connection

P753 : PF $\frac{3}{4}$ ", PF1", PF $1\frac{1}{2}$ ", male screw

P754 : Standard and non standard flange

P755 : Homogenizer

P756 : Homogenizer flange (95 x 43 x 28)

System filling

USP grade glycerin (99.5% pure)

Option : Food grade silicone

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, P751 and P752 only
7V 80 mm, lower back connection, P751 and P752 only
8G 100 mm, lower back connection, P751 and P752 only
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, P751 and P752 only, liquid filling
8V 80 mm, lower back connection, P751 and P752 only, liquid filling
8T 100 mm, lower back connection, P751 and P752 only, liquid filling

3. Body and process connection material, pocket length

- D** 316SS

4. Process connection

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

5. Unit

- H** bar
I MPa
J kPa

6. Range

- XXX** Refer to pressure range table

7. Diaphragm material

- E** 316L SS

8. Options

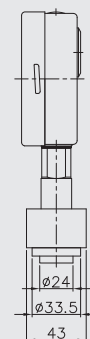
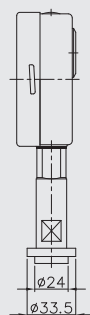
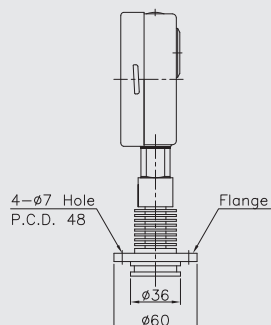
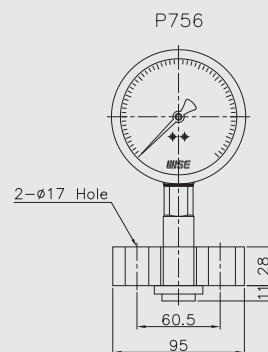
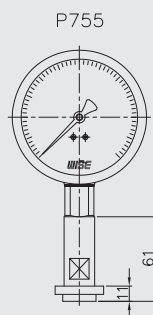
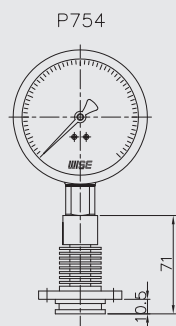
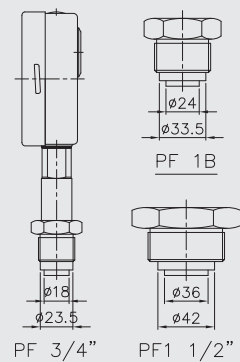
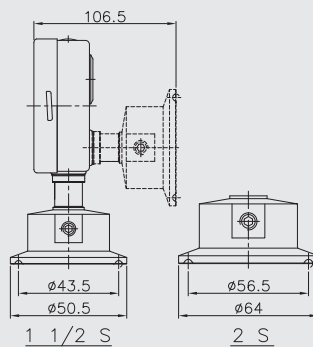
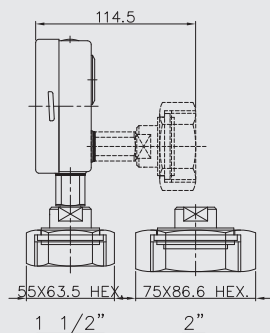
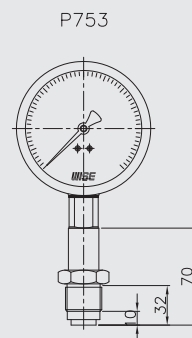
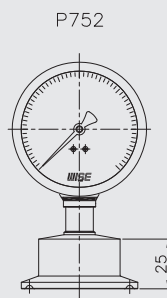
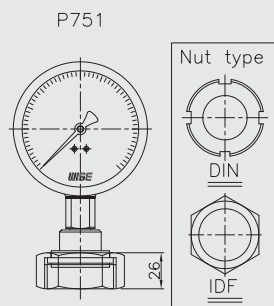
- 0** None
1 Accessories

Note 1. Max. temperature and process of pressure medium must be specified on order sheet.

2. Flange size will be specified on order sheet.

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

P75X : Type of mounting



Pressure unit and range table

Range and code	Unit and code			P751		P752			P753			P754	P755	P756
	H : bar	J : kPa	I : MPa	1½S	2S	1S	1½S	2S	PF ¾S	PF 1S	PF 1½S			
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

O : Available X : Not available