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.


Model : P751


Model : P752


Model : P753


Model : P754


Model : P755


Model : P756

Nominal diameter
63, 80 and 100 mm

Accuracy
63 and 80 mm : ±1.6 % of full scale
100 mm : ±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 ℃) will be effected by approximately ±0.5 % per 10 ℃ of full scale

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)

Body
Stainless steel (316SS)

Diaphragm
Stainless steel (316L SS)
Electropolished diaphragm
Surface roughness : ≤ Ra : 0.8 ㎛

System filling
Food grade oil (FDA certified)

Certificates
ATEX II 2G Ex h IIC T6…T1 Gb /
ATEX II 2D Ex h IIIC T85ºC…T450ºC Db

Main order (See note 1) Ordering information

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 P751and 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

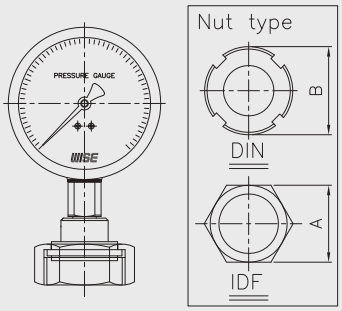
Sample ordering code

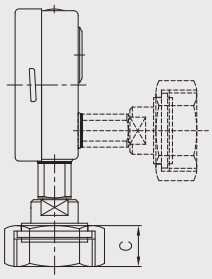
1	2	3	4	5	6	7	8
P751	**1A**	**D**	**FB**	**H**	**XXX**	**E**	**0**

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P75X : Type of mounting

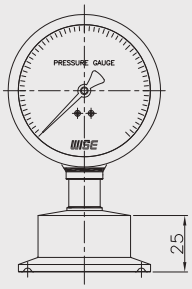
P751

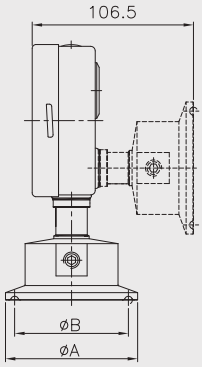




Type		1”	1.5”	2”	2.5”
IDF	A	45	56	75	90
	C	30	30	30	30
DIN	B	63	76.5	92	112
	C	21	21	22	26

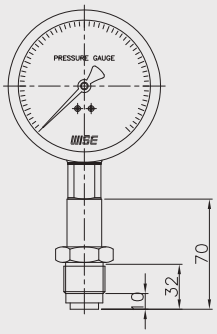
P752

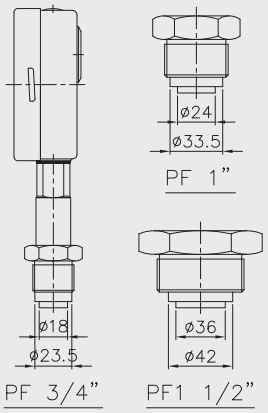




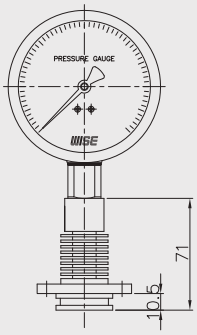
Size	3/4”	1”	1.5”	2”	2.5”	3”
A	25	50.5	50.5	64	77.5	91
B	19.5	43.5	43.5	56.5	70.5	83.5

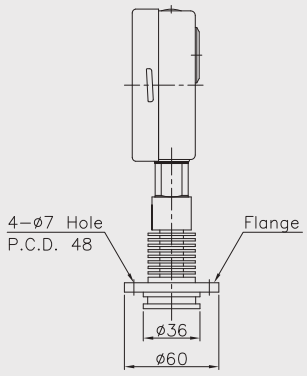
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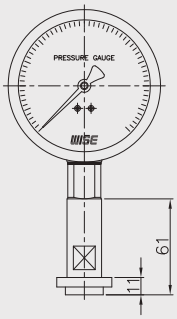


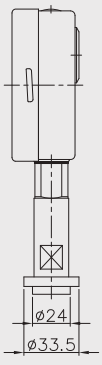
P754



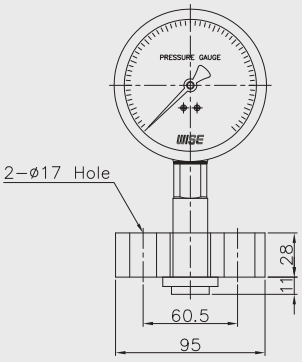


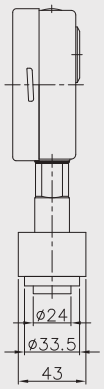
P755





P756





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	-100~100	-0.1 ~ 0.1	X	O	X	O	O	X	X	O	X	X	X
127	-1 ~ 1.6	-100~160	-0.1 ~ 0.16	X	O	X	O	O	X	X	O	X	X	X
028	-1 ~ 2	-100~200	-0.1 ~ 0.2	X	O	X	O	O	X	X	O	X	X	X
129	-1 ~ 2.5	-100~250	-0.1 ~ 0.25	X	O	X	O	O	X	X	O	X	X	X
029	-1 ~ 3	-100~300	-0.1 ~ 0.3	X	O	X	O	O	X	X	O	X	X	X
030	-1 ~ 4	-100~400	-0.1 ~ 0.4	X	O	X	O	O	X	X	O	X	X	X
010	-1 ~ 5	-100~500	-0.1 ~ 0.5	X	O	X	O	O	X	X	O	X	X	X
031	-1 ~ 6	-100~600	-0.1 ~ 0.6	X	O	X	O	O	X	X	O	X	X	X
014	-1 ~ 9	-100~900	-0.1 ~ 0.9	X	O	X	O	O	X	X	O	X	X	X
032	-1 ~ 10	-100~1000	-0.1 ~ 1	X	O	X	O	O	X	X	O	X	X	X
033	-1 ~ 15	X	-0.1 ~ 1.5	X	O	X	O	O	X	X	O	X	X	X
034	-1 ~ 20	X	-0.1 ~ 2	X	O	X	O	O	X	X	O	X	X	X
035	-1 ~ 25	X	-0.1 ~ 2.5	X	O	X	O	O	X	X	O	X	X	X

O : Available X : Not available