

Sanitary pressure gauge (3-A marking)

Model: P752S series

Spec. sheet no. PD07-05

Service intended

P752S 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.



Special features

3-A certificated

Suitable for SIP and CIP

All stainless steel and welded construction

Nominal diameter

50, 63, 80 and 100 mm

Accuracy

P752 (50 mm) : $\pm 3.0\%$ of full scale

P752 (63 mm) and P752 (80 mm) : $\pm 1.6\%$ of full scale

P752 (100 mm) : $\pm 1.0\%$ of full scale

Scale range

-0.1 ~ 7 MPa

Working pressure

Steady pressure : 75% of full scale value

Fluctuating pressure : 67% of full scale value

Operating temperature

Ambient : -25 ~ 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



Standard features

Process connection

$\frac{1}{4}$ S, 1S, $1\frac{1}{2}$ S and 2S

Low and back

Diaphragm and seal housing

Diaphragm : Stainless steel (316L SS)

Seal housing : Stainless steel (316SS)

Case

Stainless steel (304SS)

Electropolished with pressure relief

Cover

50 mm : Twist-lock polycarbonate (Diameter 50 mm)

63, 80 and 100 mm : Stainless steel 304SS

Window

Safety glass (63, 80 and 100 mm)

Polycarbonate (50 mm)

Movement

Stainless steel

Dial

White aluminium with black and red graduations, dual pressure scale and pointer stop pin

Pointer

Black painted aluminium alloy

Helium leak rate

Tested to confirm leakage rates of less than 10^{-8} mbar • l /sec

System filling

USP grade glycerine (FDA approved)

Optional

Material of wetted parts : electropolished 316L SS

WISE®

1. Base model**P752S** Sanitary pressure gauge (3-A marking)**2. Nominal diameter and mounting type**

- 1A** 50 mm, bottom connection (refer to code A)
- 7A** 63 mm, bottom connection (refer to code A)
- 7G** 63 mm, lower back connection (refer to code G)
- 7U** 80 mm, bottom connection (refer to code A)
- 7V** 80 mm, lower back connection (refer to code G)
- 8A** 100 mm, bottom connection (refer to code A)
- 8G** 100 mm, lower back connection (refer to code G)

3. Body and process connection material**D** 316SS**4. Process connection**

- F** ¾S Tri-clamp
(only available nominal diameter 50 mm)
- G** 1S Tri-clamp
(only available nominal diameter 63,80,100 mm)
- J** 1½S Tri-clamp
(only available nominal diameter 63,80,100 mm)
- K** 2S Tri-clamp
(only available nominal diameter 63,80,100 mm)

5. Unit

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

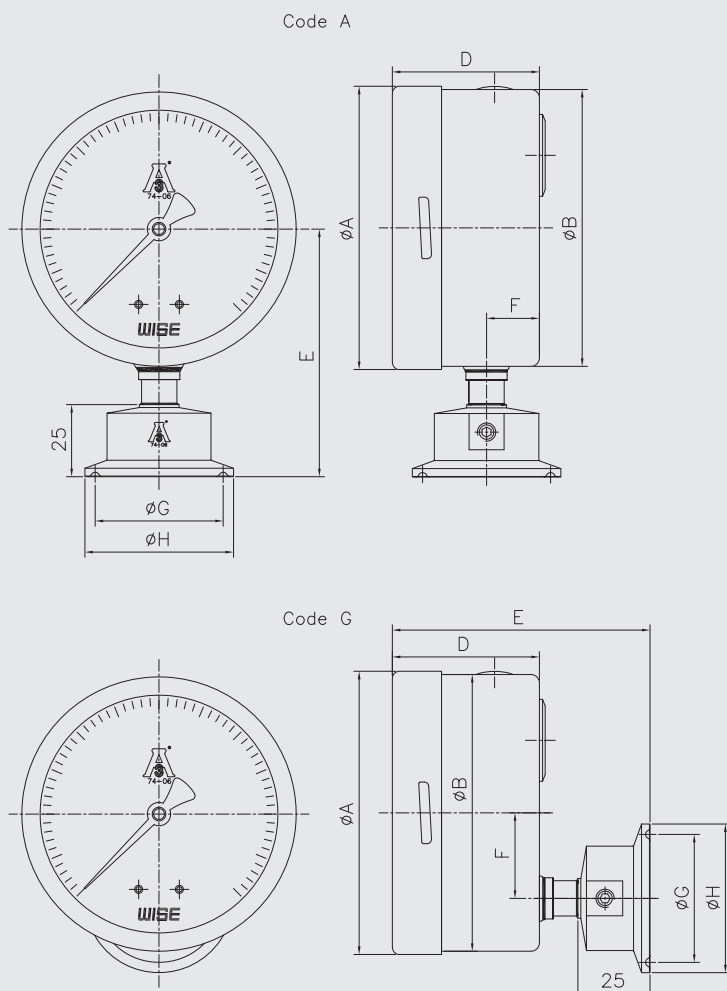
6. Range**XXX** Refer to pressure range table**7. Diaphragm material****E** 316L SS**8. Options**

- 0** None
- 1** Accessories

1	2	3	4	5	6	7	8
P752S	1A	D	F	H	XXX	E	0

Sample
ordering code

P752S : Type of mounting



Dimensions (mm)									
Dial size	Clamp type	Available code	A	B	D ± 2	E ± 2	F ± 1	G	H
50	3/4 S	A	53	50.8	29	68.3	9	19.5	25
63	1 S	A	64	62	33	75.7	11	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64
	1 S	G	64	62	33	82.5	13	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64
80	1 S	A	81.2	78.5	39.5	84	12	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64
	1 S	G	81.2	78.5	39.5	91	22	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64
100	1 S	A	101.3	99	50	100	16	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64
	1 S	G	101.3	99	50	106.5	24	43.5	50.5
	1 1/2 S							43.5	50.5
	2 S							56.5	64

Range table

Range and code	Unit and code			Pressure connection			
	H : bar	I : MPa	J : kPa	¾S	1S	1½S	2S
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	X	X	O	O
041	0 ~ 1	0 ~ 0.1	0 ~ 100	X	O	O	O
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O	O
134	0 ~ 2.5	0 ~ 0.25	0 ~ 250	X	O	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	O	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O	O
143	0 ~ 16	0 ~ 1.6	X	O	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O	O
151	0 ~ 40	0 ~ 4	X	X	O	O	O
055	0 ~ 50	0 ~ 5	X	X	O	O	O
056	0 ~ 60	0 ~ 6	X	X	O	O	O
057	0 ~ 70	0 ~ 7	X	X	O	O	O
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	X	X	O	O
127	-1 ~ 1.6	-0.1 ~ 0.16	-100 ~ 160	X	X	O	O
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	X	X	O	O
129	-1 ~ 2.5	-0.1 ~ 0.25	-100 ~ 250	X	X	O	O
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	X	X	O	O
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	X	X	O	O
010	-1 ~ 5	-0.1 ~ 0.5	-100 ~ 500	X	X	O	O
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	X	X	O	O
014	-1 ~ 9	-0.1 ~ 0.9	-100 ~ 900	X	X	O	O
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	X	X	O	O
033	-1 ~ 15	-0.1 ~ 1.5	X	X	X	O	O
034	-1 ~ 20	-0.1 ~ 2	X	X	X	O	O
035	-1 ~ 25	-0.1 ~ 2.5	X	X	O	O	O

O : Available X : Not available