

Differential pressure gauge with bellows element

Model: P670 series

Spec. sheet no. PD06-05

Service intended

P670 differential pressure gauge series are designed to measure differential pressure from 4 kPa to 2.0 MPa at Max. working pressure of 10 MPa. A set of two stainless steel bellows mounted on a force balance allows direct reading of the actual differential pressure.



Nominal diameter

100 and 160 mm

Accuracy

±1.0 % of full scale
±1.6 % of full scale

Scale range (MPa, kPa, bar)

0 ~ 4 kPa, 6 kPa, 10 kPa (P671 model)
0 ~ 25 kPa to 0 ~ 0.25 MPa (P672 model)
0 ~ 0.4 MPa to 0 ~ 2.0 MPa (P673 model)

Max. working pressure (Static pressure)

Max. 10 MPa

Working temperature

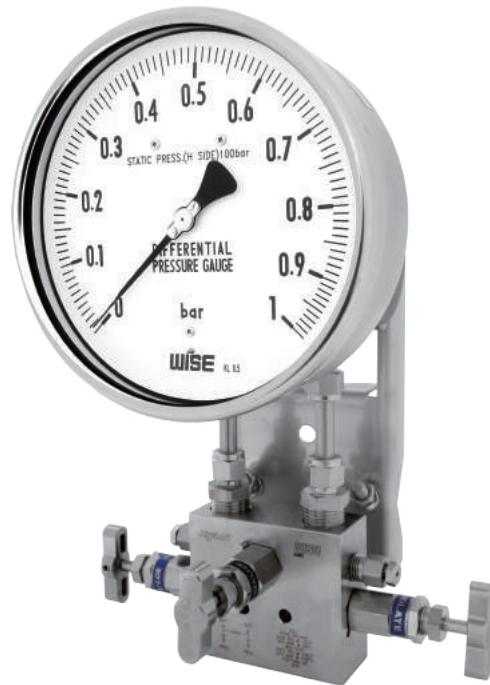
Ambient: -20~65 °C
Fluid: Max. 100 °C

Degree of protection

EN60529/IEC529/IP67

Temperature effect

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



Standard features

Pressure connection

Stainless steel (316L SS), Monel and Hastelloy-C

Pointer

Black painted aluminium alloy (Zero adjustable)

Element

Bellows
Stainless steel (316L SS), Monel and Hastelloy-C

Process connection

1/4" NPT(F)
1/2" NPT(F) at 3-way and 5-way manifold valve

Case and cover

Stainless steel (304SS)

Standard accessories

Mounting bracket for 2" pipe
mounting with silver gray finished steel

Window

Safety glass

Certificates

ATEX II 2G Ex h IIC T6...T1 Gb
ATEX II 2D Ex h IIIC T85°C...T450°C Db

Dial

White aluminium with black graduations

Option

- Remote seal - Not available with less than 40 kPa of differential pressure range
- Mounting bracket with 316SS for 2" pipe
- 3-way and 5-way manifold valve
- 3-way and 5-way manifold valve (Monel)
- Accuracy ±0.5 % of full scale

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Main order

Ordering information

1. Base model

P671 Lower range differential pressure gauge

(4, 6 and 10 kPa)

P672 Higher range differential pressure gauge

(25 kPa ~ 0.25 MPa)

P673 Higher range differential pressure gauge

(0.4 MPa ~ 2.0 MPa)

10. Option

0 None

1 Manifold valve

2 Glycerin filling

3 Manifold valve and glycerin filling

6 Silicone filling

7 Manifold valve and silicone filling

2. Nominal diameter (mm)

4 100

6 160

3. Type of mounting

D Bottom connection, mounting bracket for 2" pipe

L Bottom connection, flush, case center mounting plate

4. Accuracy

2 $\pm 0.5\%$ of full scale (Optional)

3 $\pm 1.0\%$ of full scale (Optional)

4 $\pm 1.6\%$ of full scale (Standard)

5. Process connection

C $\frac{1}{4}$ " NPT(F)

E $\frac{1}{2}$ " NPT(F), only at 3-way and 5-way manifold valve

6. Mounting bracket

D Standard bracket

E 304SS mounting bracket

F 316SS mounting bracket

W Wall mounting bracket (316SS)

N None

7. Unit

H bar

I MPa

J kPa

S mbar

8. Range

XXX Refer to pressure unit and range table

9. Element and flange material

1 316L SS

2 Monel

3 Hastelloy-C

Sample ordering code

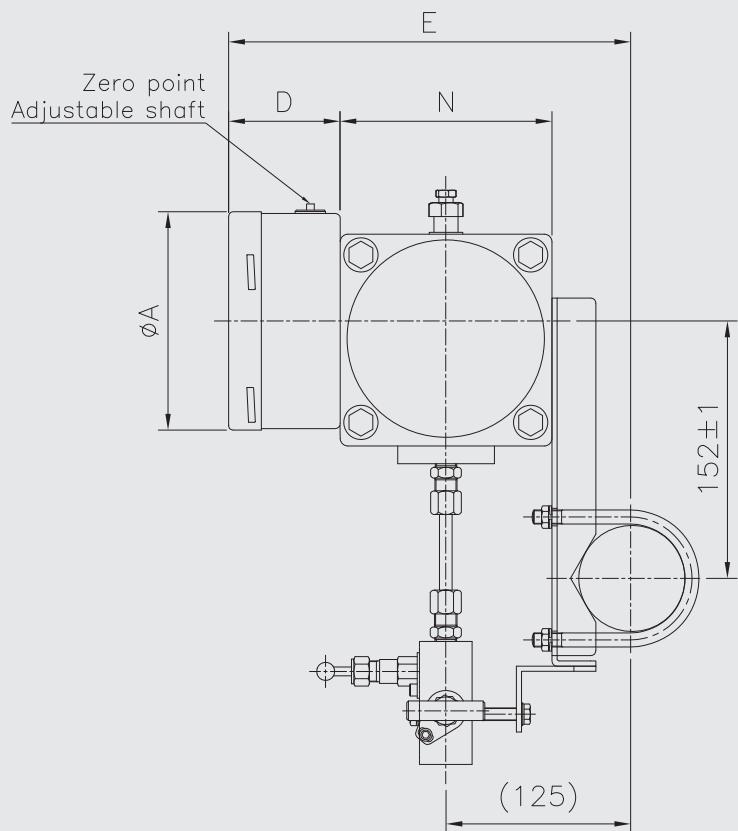
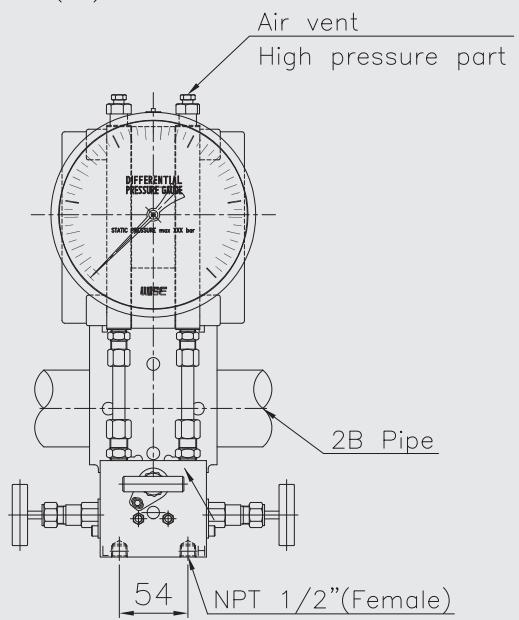
1	2	3	4	5	6	7	8	9	10
P671	6	D	4	E	D	H	XXX	1	0



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P67X : Type of mounting (1/3)

Code:(D) P671



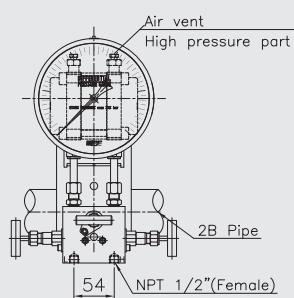
dimensions(mm)

Model	Dial size	A	D±2	E±2	N
P671	ø100	101.3	58	187.5	83.5
	ø160	160.6	60.5	190	

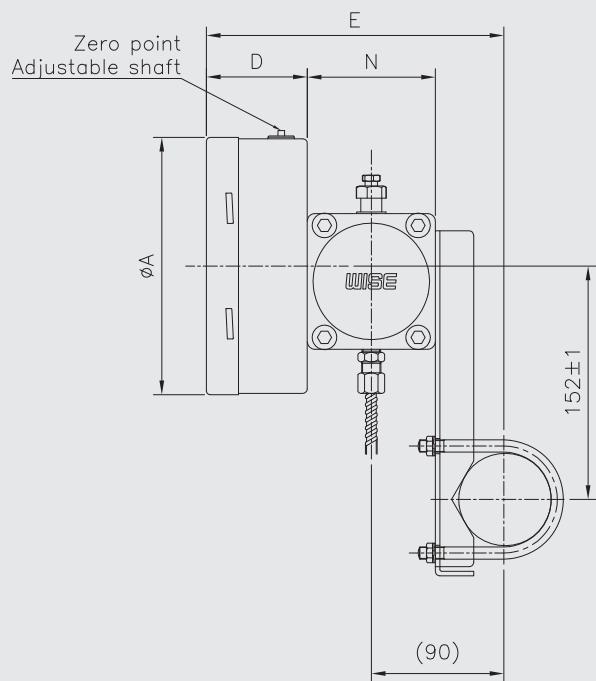
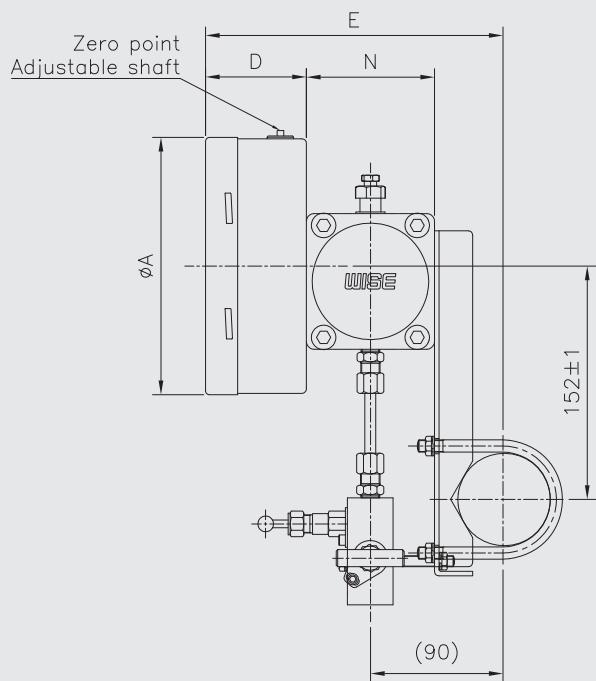
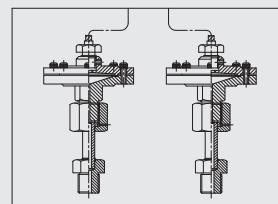
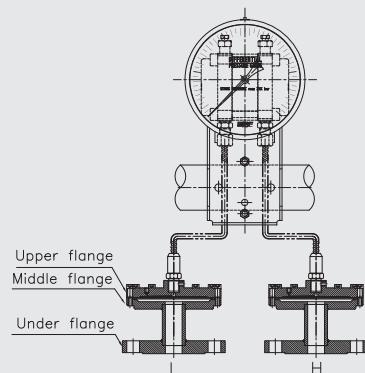
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P67X : Type of mounting (2/3)

Code:(D) P672, P673



Code:(D) P672, P673(Remote seal)

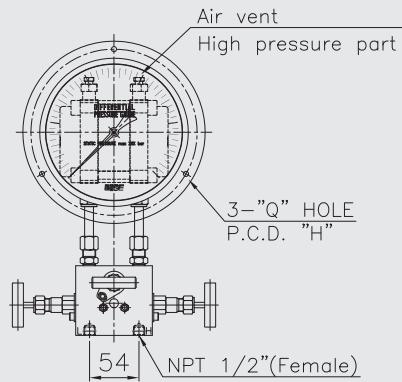


dimensions(mm)

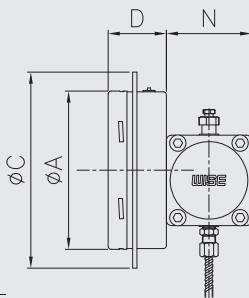
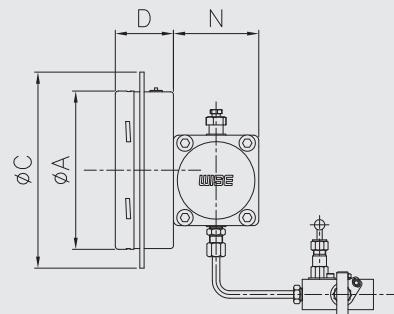
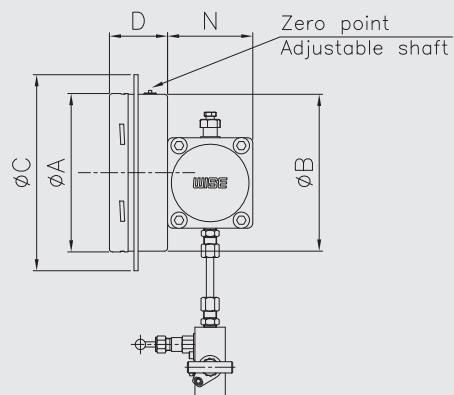
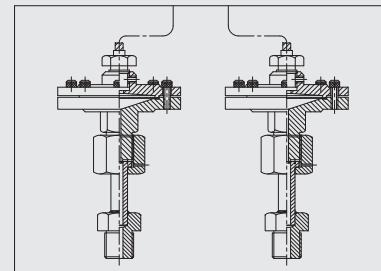
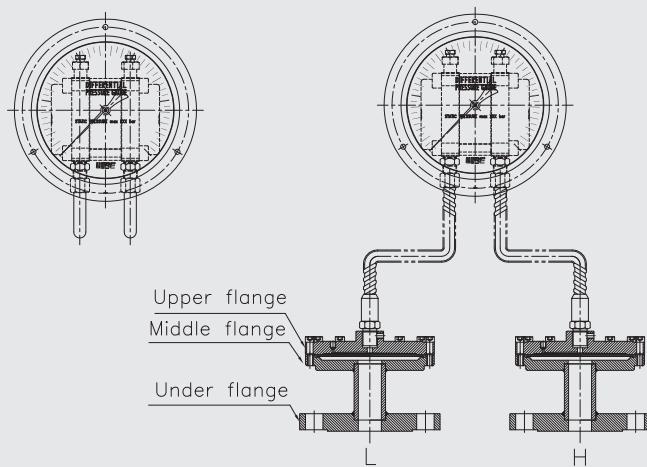
Model	Dial size	A	D±2	E±2	N
P672, P673	φ100	101.3	58	187.5	83.5
	φ160	160.6	60.5	190	

P67X : Type of mounting (3/3)

Code:(L) P672, P673



Code:(L) P672, P673(Remote seal)



dimensions(mm)

Model	Dial size	A	B±2	C	D±2	N	H	Q
P672, P673	∅100	101.3	101	132	58	83.5	115~116	4.8
	∅160	160.6	160.6	192	60.5		175.5~176.5	5.5

Pressure unit and range table

Range and code	Unit and code					Model	Max. static pressure
	J : kPa	S : mbar	H : bar	I : MPa			
065	0 ~ 4	0 ~ 40	X	X		P671	10 MPa
067	0 ~ 6	0 ~ 60	X	X			
070	0 ~ 10	0 ~ 100	X	X			
118	0 ~ 25	0 ~ 250	X	X			
121	0 ~ 40	0 ~ 400	X	X			
125	0 ~ 60	0 ~ 600	X	X			
041	0 ~ 100	X	0 ~ 1	0 ~ 0.1			
133	0 ~ 160	X	0 ~ 1.6	0 ~ 0.16			
042	0 ~ 200	X	0 ~ 2	0 ~ 0.2			
134	0 ~ 250	X	0 ~ 2.5	0 ~ 0.25			
044	0 ~ 400	X	0 ~ 4	0 ~ 0.4		P672	10 MPa
045	0 ~ 600	X	0 ~ 6	0 ~ 0.6			
047	0 ~ 1,000	X	0 ~ 10	0 ~ 1			
143	X	X	0 ~ 16	0 ~ 1.6			
051	X	X	0 ~ 20	0 ~ 2		P673	10 MPa

X : Not available