

# Differential pressure gauge with bellows element

## Model: P670 series

Spec. sheet no. PD06-09

### Service intended

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



### Nominal diameter

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 ~ 0.2 MPa (P672 model)

0 ~ 0.25 MPa to 0 ~ 2.0 MPa (P673 model)

### Static pressure

P671 : Max. 4 MPa

P672 and P673 : 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 (316 L SS), Monel and hastelloy-C

### Element

Bellows

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

### Case and cover

Stainless steel (304SS)

### Window

Safety glass

### Dial

White aluminium with black graduations

### Filling liquid for differential cell

Silicone oil

### Pointer

Black painted aluminium alloy (Zero adjustable)

### Process connection

¼" NPT(F)

½" NPT(F) at 3-way manifold valve and 5-way manifold valve

### Standard accessories

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

### Optional

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

**1. Base model**

- P671** Lower range differential pressure gauge  
(4, 6 kPa ~ 10 kPa)
- P672** Higher range differential pressure gauge  
(25 kPa ~ 0.25 MPa)
- P673** Higher range differential pressure gauge  
(0.25 MPa ~ 2.0 MPa)

**2. Nominal diameter (mm)**

- 6** 160

**3. Type of mounting**

- D** Bottom connection, mounting bracket for 2" pipe
- L** Bottom connection, flush, case center mounting plate

**4. Accuracy**

- 3** ±1.0% of full scale (Optional)
- 4** ±1.6% of full scale (Standard)

**5. Process connection**

- C** ¼" NPT(F)
- E** ½" 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

**10. Options**

- 0** None
- 1** Manifold valve
- 2** Glycerin filling
- 3** Manifold valve and glycerin filling
- 6** Silicone filling
- 7** Manifold valve and silicone filling

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

Sample  
ordering code

## Pressure unit and range table

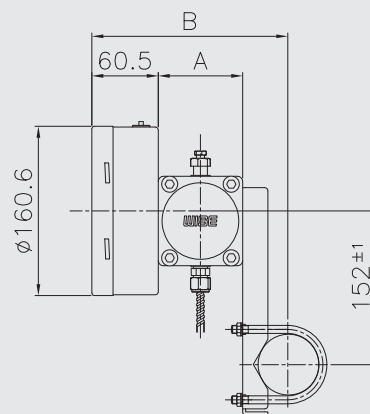
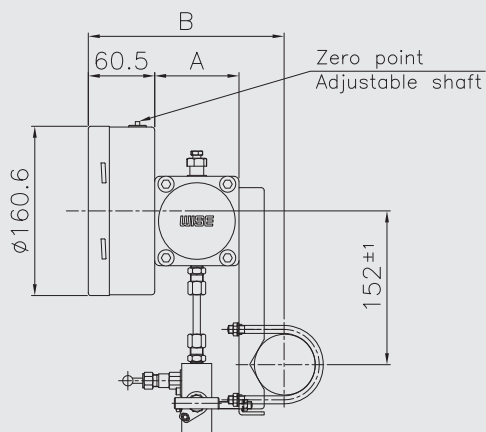
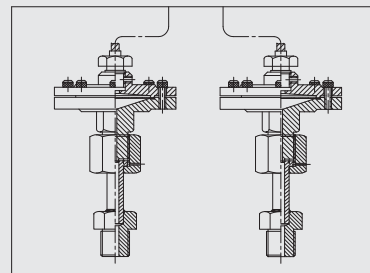
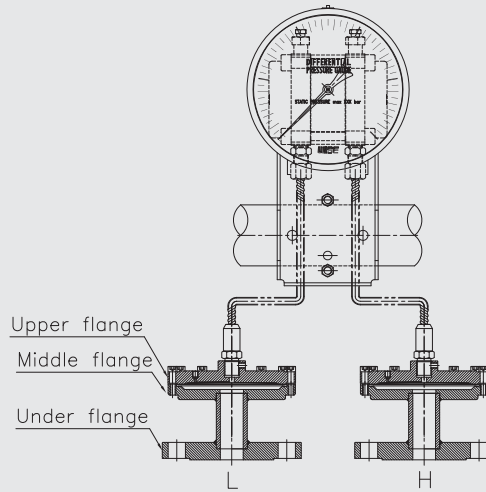
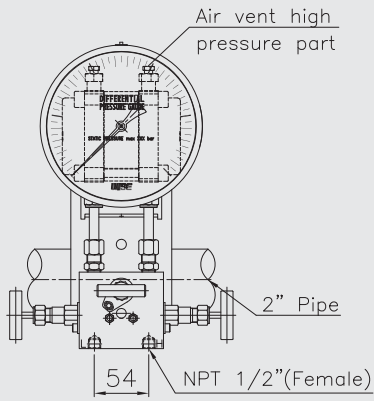
Range and code	Unit and code					Model	Max. static pressure
	J : kPa	S : mbar	H : bar	I : MPa			
065	0 ~ 4	0 ~ 40	X	X		P671	4 MPa
067	0 ~ 6	0 ~ 60	X	X			
070	0 ~ 10	0 ~ 100	X	X			
118	0 ~ 25	0 ~ 250	X	X		P672	10 MPa
121	0 ~ 40	0 ~ 400	X	X			
125	0 ~ 60	0 ~ 600	X	X			
041	0 ~ 100	X	0 ~ 1	0 ~ 0.01			
133	0 ~ 160	X	0 ~ 1.6	0 ~ 0.16			
042	0 ~ 200	X	0 ~ 2	0 ~ 0.2		P673	10 MPa
134	0 ~ 250	X	0 ~ 2.5	0 ~ 0.25			
044	0 ~ 400	X	0 ~ 4	0 ~ 0.4			
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			

O : Available    X : Not available

# P67X : Type of mounting (1/2)

Code:(D) P670

Code:(D) P670(Remote seal)



Dimensions (mm)

Model	Range	A	B
P671	≤ 10kPa	154	260.5
P672, P673	> 10kPa	83.5	190

**P67X : Type of mounting (2/2)**

Code:(L) P670

Code:(L) P670(Remote seal)

