Differential pressure gauge with bellows element Model: P670 series

Spec. sheet no. PD06-05

FHI 🔍

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 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

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

Element

Bellows Stainless steel (316L 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

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

Standard accessories

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

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



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)

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 ±0.5 % of full scale (Optional)
- 3 ±1.0 % of full scale (Optional)
- 4 ±1.6 % of full scale (Standard)

5. Process connection

- C 1/4" NPT(F)
- E 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

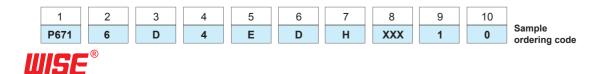
8. Range

P670 Series_02

XXX Refer to pressure unit and range table

9. Element and flange material

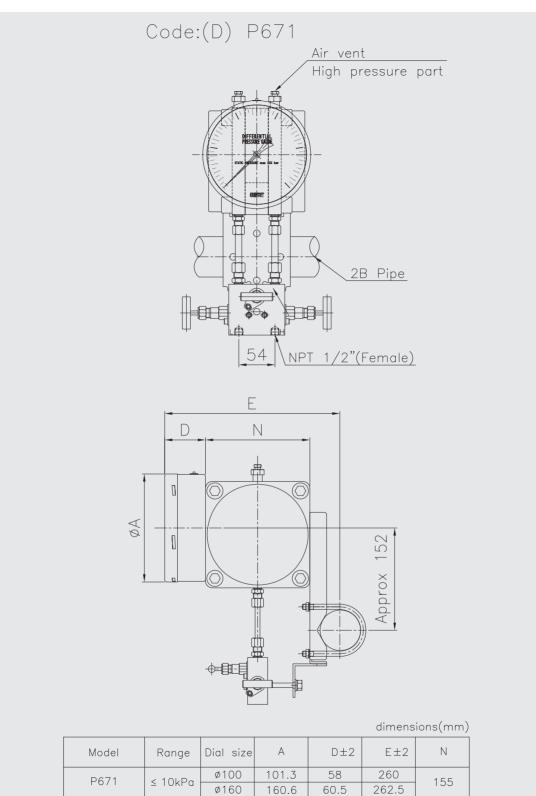
- 1 316L SS
- 2 Monel
- 3 Hastelloy-C



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

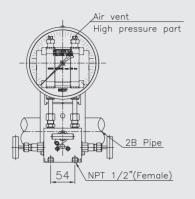
P67X : Type of mounting (1/3)

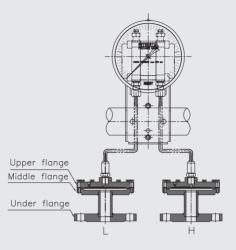


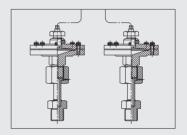


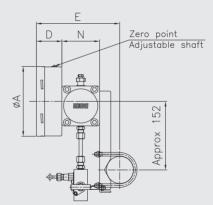
Code:(D) P672, P673

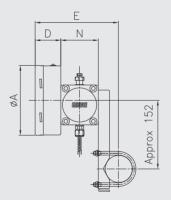
Code:(D) P672, P673(Remote seal)











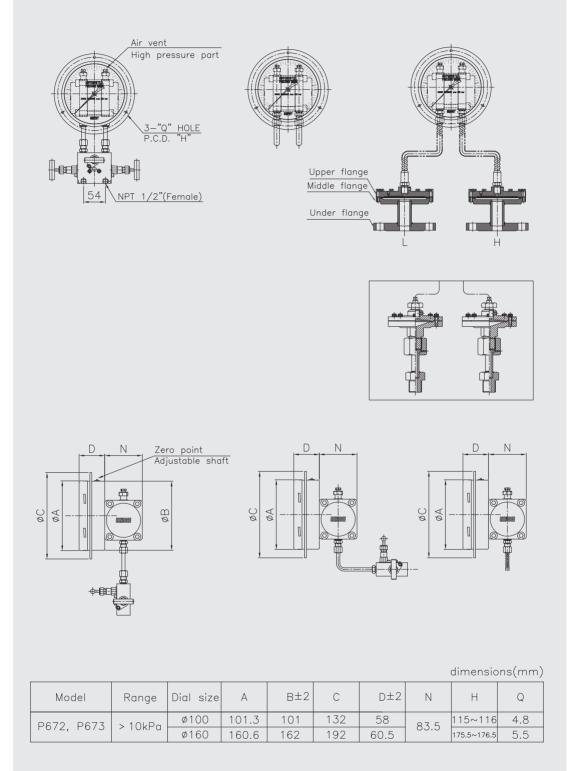
1.4		1
dime	ension	s(mm)
GILLIC	51151011	211111

Model	Range	Dial size	А	D±2	E ±2	Ν
P672, P673	> 10kPa	ø100	101.3	58	187.5	83.5
F072, F073		ø160	160.6	60.5	190	



Code:(L) P672, P673

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





Pressure unit and range table

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

X : Not available

