Differential pressure gauge with diaphragm element

Model: P660 series

Spec. sheet no. PD06-08

Service intended

P660 gauge series are differential pressure gauge is designed to measure differential pressure from 4 kPa to 2.5 MPa at static pressure of 10, 25 MPa. A set of two stainless steel diaphragm 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, mbar)

0 \sim 4 kPa to 0 \sim 40 kPa Flange size / DN 140, Max. static / 10 and 25 MPa 0 \sim 60 kPa to 0 \sim 2.5MPa Flange size / DN80, Max. static / 25 MPa

Static pressure

Max. 25 MPa

Working temperature

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

Degree of protection

EN60529/IEC529/IP65

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

Pressure connection (Flange)

Stainless steel (316L SS)

Element

Diaphragm

316 Ti : Flange size / DN140 (Low side and high side) 316L SS : Flange size / DN80 (Low side)

/ Duratherm 600 (High side)

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)

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)



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Sample

ordering code

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1. Base model

P661 Differential pressure gauge (Static pressure : 10 MPa) (DN 140)P662 Differential pressure gauge (Static pressure : 25 MPa) (DN 80)

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

3 ±1.0% of full scale (Optional)

4 ±1.6% of full scale (Standard)

5. Process connection

C 1/4" 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

	Element	Flange			
1	Standard	316SS			
2	Standard	Monel			

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

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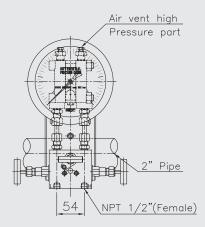
Pressure unit and range table

Pango and godo	Unit and code							
Range and code	J : kPa	S : mbar	H : bar	I : MPa	Flange size	Max. static pressure		
464	0 ~ 4	0 ~ 40	Х	Х				
466	0 ~ 6	0 ~ 60	X	Х		10 and 25 MPa		
469	0 ~ 10	0 ~ 100	Х	Х	DN 140			
517	0 ~ 25	0 ~ 250	Х	X				
121	0 ~ 40	0 ~ 400	Х	X				
131	0 ~ 60	0 ~ 600	Х	X		-+		
041	0 ~ 100	Χ	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		25 MPa		
044	0 ~ 400	X	0 ~ 4	0 ~ 0.4	DN 80			
045	0 ~ 600	Χ	0~6	0 ~ 0.6				
047	0 ~ 1,000	Χ	0 ~ 10	0 ~ 1				
143	Χ	Χ	0 ~ 16	0 ~ 1.6				
051	X	Χ	0 ~ 20	0~2				
052	X	X	0 ~ 25	0 ~ 2.5				

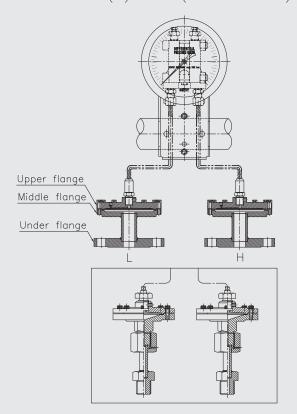
O : Available X : Not available

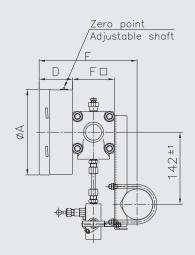
P66X: Type of mounting (1/2)

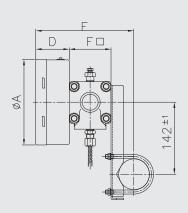
Code:(D) P660



Code:(D) P660(Remote seal)







Dial size	Pressure	Dimensions (mm)±2					
Didi Size	range	А	D	Е	F□(P661,P662)	F□(P663)	
4100	≤ 40kPa	1017	63	245	137	_	
Ø100	> 40kPa	101.3		194	86	86	
#1.CO	≤ 40kPa	100.0	65	248	137	_	
Ø160	< 40kPa	160.6		197	86	86	

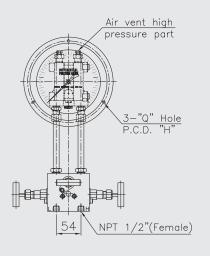
PN: Nominal pressure for static.

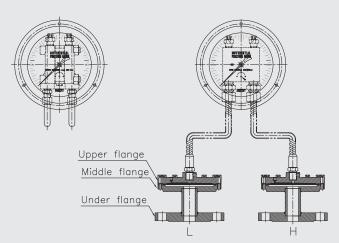


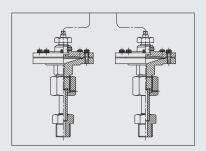
P66X: Type of mounting (2/2)

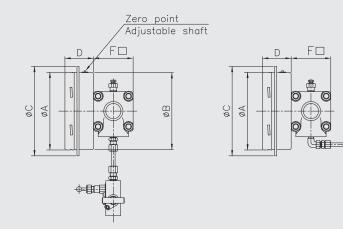
Code:(L) P660

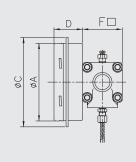
Code:(L) P660(Remote seal)











	Dial size	Pressure	Dimensions (mm)±2							
		range	А	В	С	D	Н	Q	F□(P661, P662)	F□(P663)
	4100	≤ 40kPa	101.3	99	132	63	115~116	Ø4.8	137	_
	Ø100	> 40kPa							86	86
	4100	≤ 40kPa	1000	1 = 0	100	65	178	ø5.5	137	_
	Ø160	< 40kPa	160.6	159	192				86	86

PN: Nominal pressure for static.



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