

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 ~ 4 kPa to 0 ~ 40 kPa

Flange size / DN 140, Max. static / 10 and 25 MPa

0 ~ 60 kPa to 0 ~ 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 ±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

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)

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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** 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**

	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

1	2	3	4	5	6	7	8	9	10
P661	6	D	4	E	D	H	XXX	1	0

Sample
ordering code

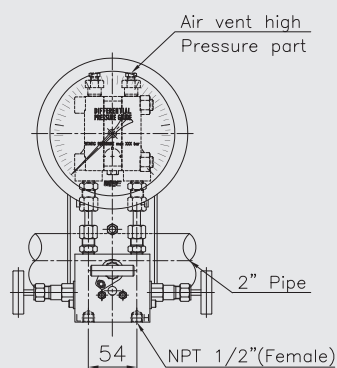
Pressure unit and range table

Range and code	Unit and code					
	J : kPa	S : mbar	H : bar	I : MPa	Flange size	Max. static pressure
464	0 ~ 4	0 ~ 40	X	X	DN 140	10 and 25 MPa
466	0 ~ 6	0 ~ 60	X	X		
469	0 ~ 10	0 ~ 100	X	X		
517	0 ~ 25	0 ~ 250	X	X		
121	0 ~ 40	0 ~ 400	X	X		
131	0 ~ 60	0 ~ 600	X	X	DN 80	25 MPa
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		
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		
052	X	X	0 ~ 25	0 ~ 2.5		

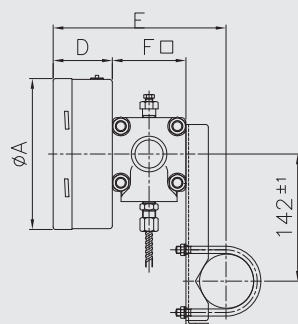
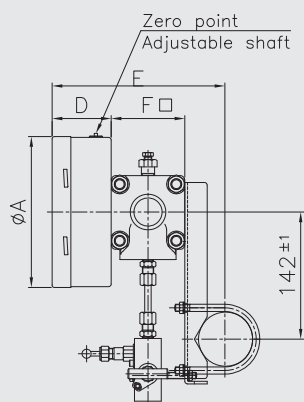
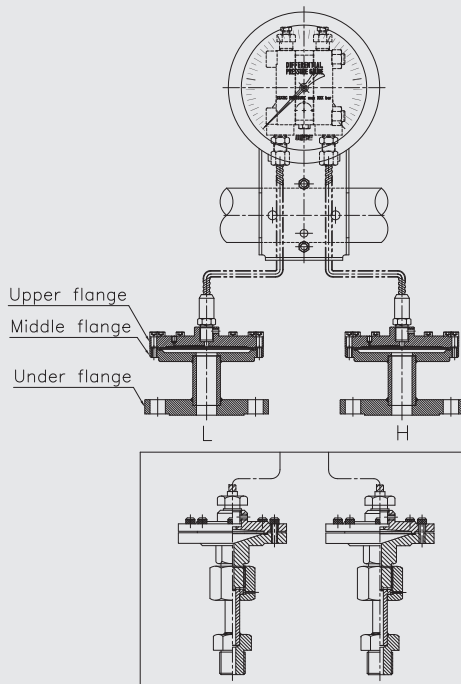
O : Available X : Not available

P66X : Type of mounting (1/2)

Code:(D) P660



Code:(D) P660(Remote seal)



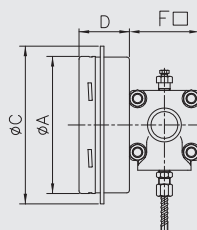
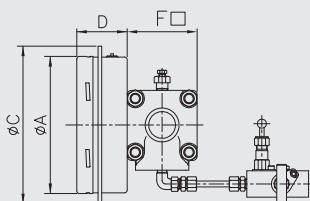
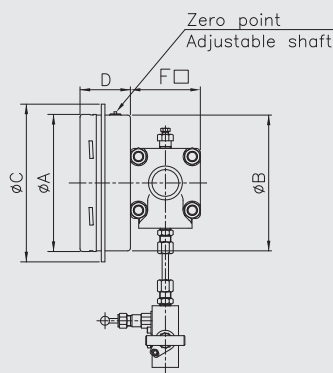
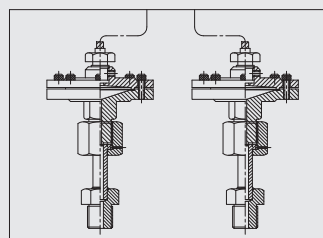
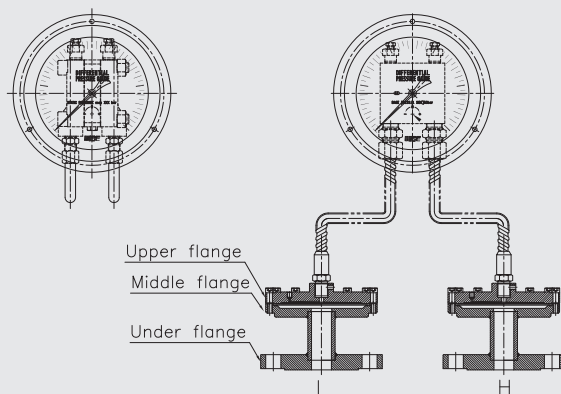
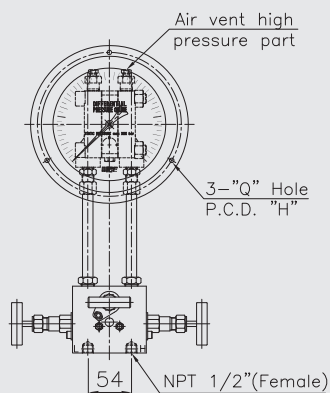
Dial size	Pressure range	Dimensions (mm)±2				
		A	D	E	F□(P661,P662)	F□(P663)
ø100	≤ 40kPa	101.3	63	245	137	—
	> 40kPa			194	86	86
ø160	≤ 40kPa	160.6	65	248	137	—
	< 40kPa			197	86	86

PN : Nominal pressure for static.

P66X : Type of mounting (2/2)

Code:(L) P660

Code:(L) P660(Remote seal)



Dial size	Pressure range	Dimensions (mm)±2							
		A	B	C	D	H	Q	F□(P661, P662)	F□(P663)
ø100	≤ 40kPa	101.3	99	132	63	115~116	R2.4	137	—
	> 40kPa							86	86
ø160	≤ 40kPa	160.6	162	192	65	175.5~176.5	R2.4	137	—
	< 40kPa							86	86

PN : Nominal pressure for static.

