## Differential pressure gauge with diaphragm element

Model: P660 series

Spec. sheet no. PD06-04

#### Service intended

P660 gauge series are differential pressure gauge is designed to measure differential pressure from 4 kPa to 2.5 MPa at Max. working 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  $\sim$  2.5 MPa Flange size / DN80, Max. static / 25 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 (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)

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)



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#### 1. Base model

P661 Differential pressure gauge

(Max.working pressure: 10 and 25 MPa) (DN 140)

P662 Differential pressure gauge

(Max.working 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	316L SS
2	Standard	Monel

## 10. Option

0 None

1 Manifold valve

6 Silicone filling

7 Manifold valve and silicone filling

## Sample ordering code

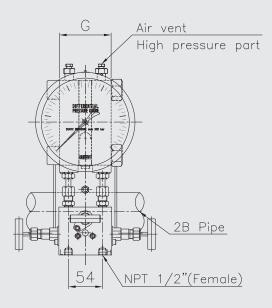
1	2	3	4	5	6	7	8	9	10
P661	6	D	4	E	D	Н	XXX	1	0



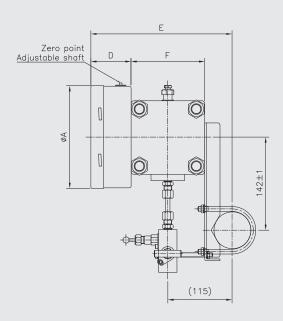
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# P661: Type of mounting

Code:(D) P661



Static(MPa)	G
10	83.5
25	118.5



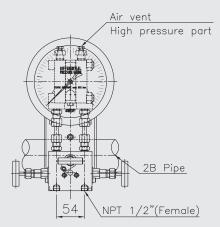
Model	Dial size	Pressure	dimensions (mm)±2			
Model	Didi 3ize	range	А	D	Е	F
D.C.C.4	ø100	Lasa than 1010	101.3	63	245	177
P661	Ø160	Less than 40kPa	160.6	65	248	137



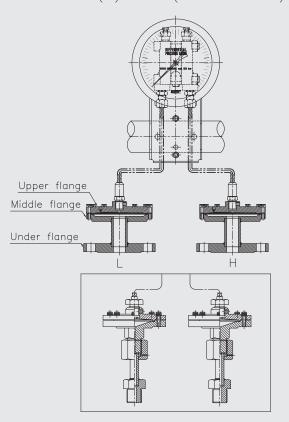
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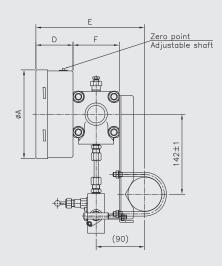
## P662: Type of mounting (1/2)

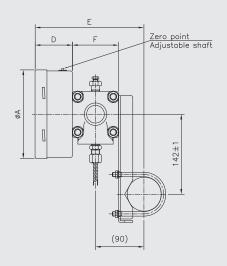
Code:(D) P662



Code:(D) P662(Remote seal)







Model	Dial size	Pressure	dimensions (mm)±2			
WIOGCI	Didi Size	range		D	Ε	F
Deed	Ø100	0 401.0-	101.3	63	194	86
P662	ø160	Over 40kPa	160.6	65	197	

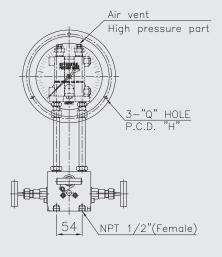


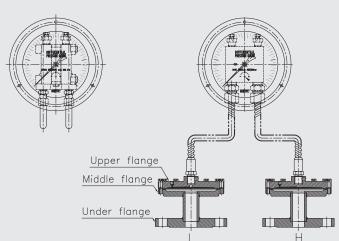
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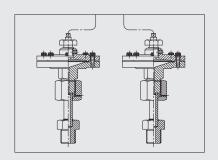
## P662: Type of mounting (2/2)

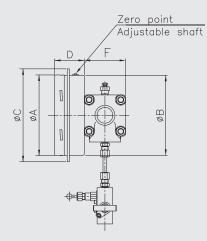


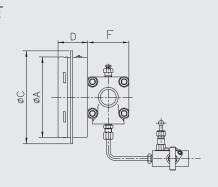
Code:(L) P662(Remote seal)

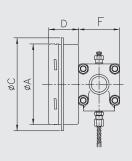












Model	Dial size	Pressure	dimensions (mm)±2					
Model	Didi Size	range	А	В	С	D	F	Н
DCCO	Ø100	Over 40kPa	101.3	99	132	63	86	116
P662	Ø160	Over 40kPa	160.6	159	192	65	00	175.5~176.5

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# Pressure unit and range table

Panga and and	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		10 and 25 MPa	
466	0 ~ 6	0 ~ 60	Χ	Х			
469	0 ~ 10	0 ~ 100	Χ	Χ	DN 140		
517	0 ~ 25	0 ~ 250	Χ	Х			
121	0 ~ 40	0 ~ 400	Χ	Х			
131	0 ~ 60	0 ~ 600	Χ	X		25 MPa	
041	0 ~ 100	Χ	0 ~ 1	0 ~ 0.1			
133	0 ~ 160	Χ	0 ~ 1.6	0 ~ 0.16			
042	0 ~ 200	Χ	0~2	0 ~ 0.2			
134	0 ~ 250	Χ	0 ~ 2.5	0 ~ 0.25	DNIOO		
044	0 ~ 400	Χ	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			
052	Χ	Χ	0 ~ 25	0 ~ 2.5			

X : Not available



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