

# Low pressure gauge with aluminium case

## Model: P430 series

Spec. sheet no. PD04-05

### Service intended

P430 series are designed to measure low, vacuum or compound pressure. These models have a stainless steel 316L measuring element which consists of two formed diaphragms and diaphragms are welded together.



### Nominal diameter

100 and 150 mm

### Accuracy

±1.0% of full scale

±1.5% of full scale

### Scale range (kPa, mbar)

-35 ~ 0 to -1 ~ 0 kPa

-15 ~ 15 to -0.5 ~ 0.5 kPa

0 ~ 1 to 0 ~ 35 kPa

### Working pressure

Steady : 75% of full scale

Over range protection : 130% of full scale

### Working temperature

Ambient : -20 ~ 65°C

Fluid : Max. 100°C

### Temperature effect

Accuracy at temperature above and below the reference temperature (20°C) will be effected by approximately ±0.4% per 10°C of full scale



## Standard features

### Pressure connection

Stainless steel (316SS)

### Movement

Brass

### Element

Stainless steel (316L SS)

Pressure camber : Up to 35 kPa

### Dial

White aluminium with black graduations

### Case

Black finished aluminium

### Pointer

Black painted aluminium alloy

### Cover

Black finished aluminium

### Window

Safety glass

### Process connection

3/8", 1/2" PT, NPT and PF

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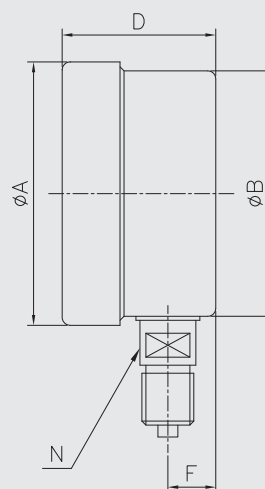
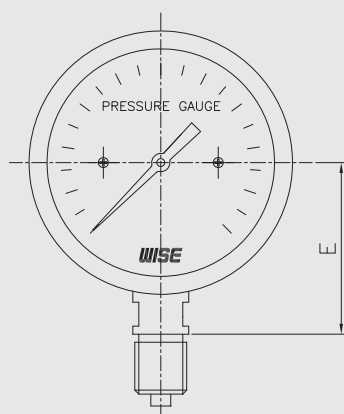
**1. Base model****P430** Low pressure gauge with aluminium case**2. Nominal diameter (mm)****4** 100**6** 150**3. Type of mounting****A** Bottom connection, direct**F** Center back connection, direct, not available  
with diameter 150 mm**J** Center back connection, flush, cover mounting plate,  
not available with diameter 150 mm**4. Accuracy****3** ±1.0% of full scale**4** ±1.5% of full scale**5. Process connection****D** 3/8"**E** 1/2"**6. Connection type****B** PF**C** PT**D** NPT**7. Unit****J** kPa**S** mbar**8. Range****XXX** Refer to pressure unit and range table**9. Pressure connection material and dial color****3** 316SS and 2 colors**10. Option****0** None**1** Accessories**2** Orifice**3** Accessories and orifice

|      |   |   |   |   |   |   |     |   |    |
|------|---|---|---|---|---|---|-----|---|----|
| 1    | 2 | 3 | 4 | 5 | 6 | 7 | 8   | 9 | 10 |
| P430 | 4 | A | 3 | D | B | J | XXX | 3 | 0  |

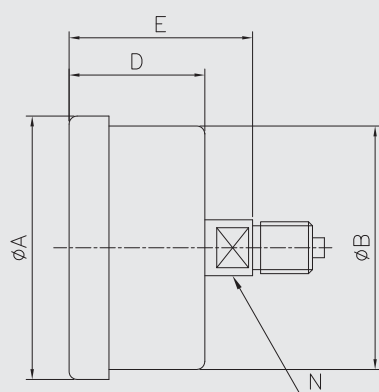
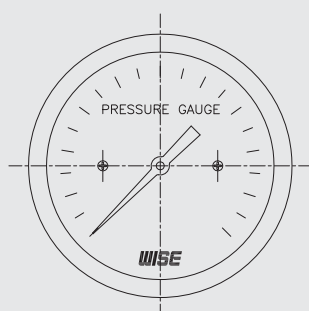
Sample  
ordering code

## P430 : Type of mounting

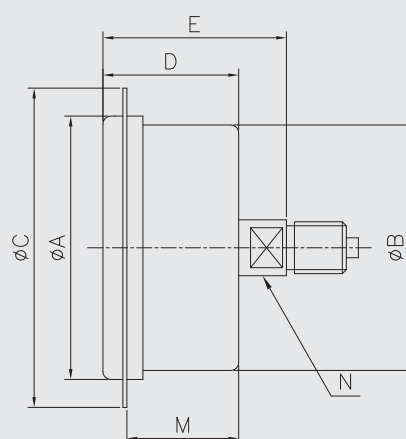
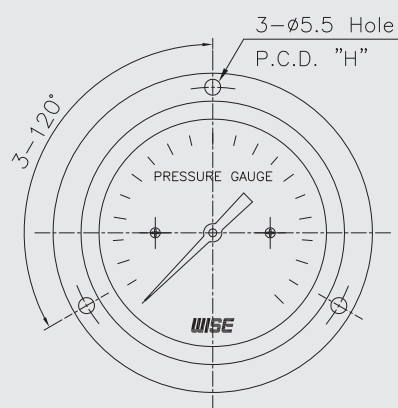
Code A



Code F



Code J



Dimensions (mm)

| Dial size | Available code | A   | B   | C   | D±2 | E±2 | F±1 | H   | M  | N  |
|-----------|----------------|-----|-----|-----|-----|-----|-----|-----|----|----|
| 100       | A              | 110 | 105 | 130 | 63  | 80  | 26  | 118 |    | 17 |
|           | F,J            | 110 | 105 | 136 | 63  | 79  |     | 120 | 55 | 17 |
| 150       | A              | 172 | 159 | 182 | 65  | 116 | 27  | 172 |    | 17 |

## Pressure unit and range table

| Range and code | Unit and code |            | Nominal diameter |        |
|----------------|---------------|------------|------------------|--------|
|                | S : mbar      | J : kPa    | 100 mm           | 150 mm |
| 503            | -350 ~ 0      | -35 ~ 0    | O                | O      |
| 400            | -300 ~ 0      | -30 ~ 0    | O                | O      |
| 502            | -250 ~ 0      | -25 ~ 0    | O                | O      |
| 401            | -200 ~ 0      | -20 ~ 0    | O                | O      |
| 402            | -150 ~ 0      | -15 ~ 0    | O                | O      |
| 403            | -100 ~ 0      | -10 ~ 0    | O                | O      |
| 405            | -50 ~ 0       | -5 ~ 0     | O                | O      |
| 406            | -40 ~ 0       | -4 ~ 0     | O                | O      |
| 407            | -30 ~ 0       | -3 ~ 0     | O                | O      |
| 408            | -20 ~ 0       | -2 ~ 0     | O                | O      |
| 409            | -10 ~ 0       | -1 ~ 0     | X                | O      |
| 472            | -150 ~ 150    | -15 ~ 15   | O                | O      |
| 470            | -100 ~ 100    | -10 ~ 10   | O                | O      |
| 413            | -50 ~ 50      | -5 ~ 5     | O                | O      |
| 415            | -40 ~ 40      | -4 ~ 4     | O                | O      |
| 417            | -30 ~ 30      | -30 ~ 30   | O                | O      |
| 418            | -25 ~ 25      | -2.5 ~ 2.5 | O                | O      |
| 419            | -20 ~ 20      | -2 ~ 2     | O                | O      |
| 421            | -10 ~ 10      | -1 ~ 1     | O                | O      |
| 457            | 0 ~ 10        | 0 ~ 1      | X                | O      |
| 460            | 0 ~ 20        | 0 ~ 2      | O                | O      |
| 462            | 0 ~ 30        | 0 ~ 3      | O                | O      |
| 464            | 0 ~ 40        | 0 ~ 4      | O                | O      |
| 465            | 0 ~ 50        | 0 ~ 5      | O                | O      |
| 469            | 0 ~ 100       | 0 ~ 10     | O                | O      |
| 515            | 0 ~ 150       | 0 ~ 15     | O                | O      |
| 437            | 0 ~ 200       | 0 ~ 20     | O                | O      |
| 517            | 0 ~ 250       | 0 ~ 25     | O                | O      |
| 518            | 0 ~ 300       | 0 ~ 30     | O                | O      |
| 519            | 0 ~ 350       | 0 ~ 35     | O                | O      |

O : Available    X : Not available