

Ultra Low pressure gauge

Model : P423 series

Spec. sheet no. PD04-04

Service intended

P423 series are designed to measure ultra low, vacuum or compound pressure. These models have a stainless steel measuring element which consists of two formed diaphragms and diaphragms are welded together.

Nominal diameter

100 mm

Accuracy

±1.6 % of full scale

Scale range (kPa, mbar)

-1 ~ 0 to -0.2 ~ 0 kPa
-0.1 ~ 0.1 to -0.5 ~ 0.5 kPa
0 ~ 0.2 to 0 ~ 1 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 ±0.6 % per 10 °C of full scale



Standard features

Pressure connection

Stainless steel (316SS)

Movement

Brass

Element

Stainless steel (316L SS)
Capsule system : Up to 1 kPa

Dial

White aluminium with black graduations

Case

Stainless steel (304SS)

Pointer

Black painted aluminium alloy

Cover

Stainless steel (304SS)

Process connection

¼", ⅜", ½" PT, NPT and PF

Window

Safety glass

Option

Internal zero adjustment

WISE[®]

| P423_01

1. Base model

P423 Ultra Low pressure gauge

2. Nominal diameter (mm)

4 100

3. Type of mounting

- A** Bottom connection, direct
- B** Bottom connection, surface, case mounting plate

4. Accuracy

4 ±1.6 % of full scale

5. Process connection

- C** ¼"
- D** ⅜"
- E** ½"

6. Connection type

- B** PF
- C** PT
- D** NPT
- Z** Other

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
- 4** 316L SS and 2 colors
- 7** 316SS and 3 colors
- 8** 316L SS and 3 colors

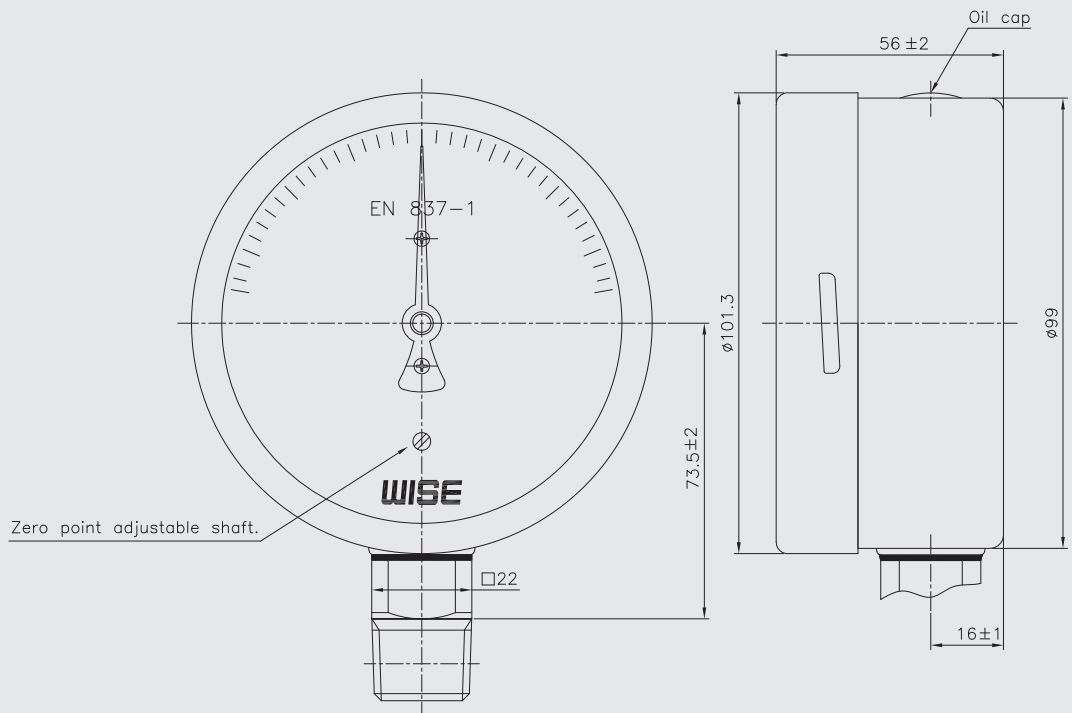
10. Option

- 0** None
- 1** Accessories

1	2	3	4	5	6	7	8	9	10
P423	4	A	4	E	D	J	XXX	3	0

Sample
ordering code

P423 : Type of mounting



Pressure unit and range table

Range and code	Unit and code	
	S : mbar	J : kPa
409	-10 ~ 0	-1 ~ 0
429	-4 ~ 0	-0.4 ~ 0
427	-2 ~ 0	-0.2 ~ 0
422	-5 ~ 5	-0.5 ~ 0.5
423	-3 ~ 3	-0.3 ~ 0.3
424	-2 ~ 2	-0.2 ~ 0.2
425	-1 ~ 1	-0.1 ~ 0.1
449	0 ~ 2	0 ~ 0.2
451	0 ~ 4	0 ~ 0.4
453	0 ~ 6	0 ~ 0.6
457	0 ~ 10	0 ~ 1