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 ℃) will be effected by approximately ±0.6 % per 10 ℃ of full scale

Standard features

Pressure connection
Stainless steel (316SS)

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

Case
Stainless steel (304SS)

Cover
Stainless steel (304SS)

Window
Safety glass

Movement
Brass

Dial
White aluminium with black graduations

Pointer
Black painted aluminium alloy

Process connection
¼", ⅜", ½" PT, NPT and PF

Option
Internal zero adjustment

Main order — Ordering information

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

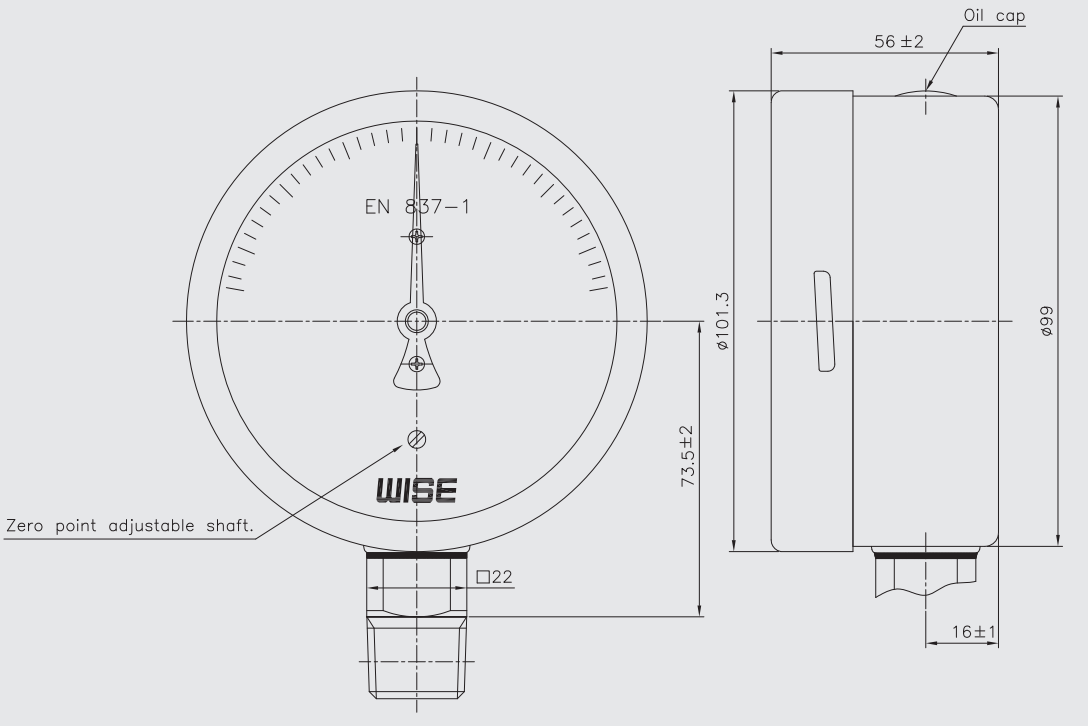
10. Option

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