

LOW PRESSURE GAUGE MODEL : P421 SERIES

WISE[®]

SERVICE INTENDED

The P421 Series are designed to measure low pressure, vacuum or compound ranges. These models have a stainless steel 316L measuring element which consists of two formed diaphragms which have been welded together.

NOMINAL DIAMETER

75, 100 and 150mm

ACCURACY

±1.5% of Full Scale

SCALE RANGE (kPa, mbar)

-50 ~ 0 to -1 ~ 0kPa

-15 ~ 15 to -0.5 ~ 0.5kPa

0 ~1 to 0 ~ 50kPa

WORKING PRESSURE

Steady : 75% of Full Scale

Over Range Protection : 130% of Full Scale

WORKING TEMPERATURE

Ambient : -20 ~ 65°C

Fluid : -20 ~ 80°C



Standard Features

PRESSURE CONNECTION

100 and 150mm : Stainless Steel (316SS)

75mm : Cr Plated Brass

ELEMENT

100 and 150mm : Stainless Steel (316SS)

75mm : Beryllium Copper

Pressure Chamber : up to 35kPa (100 and 150mm)

CASE

Stainless Steel (304SS)

COVER

Stainless Steel (304SS)

WINDOW

Glass (75mm)

Safety Glass (100 and 150mm)

MOVEMENT

Brass

DIAL

White Aluminium with

Black Graduations

POINTER

Aluminium alloy, Black painted

CONNECTION

75mm : 1/4", 3/8" PT, NPT & PF

100 and 150mm : 3/8", 1/2" PT, NPT & PF

OPTIONS

External Zero Adjustment

(Only Available with 75 and 100mm)

ORDERING INFORMATION

BASE MODEL

P421 : LOW PRESSURE GAUGE

NOMINAL DIAMETER

- 3 : 75mm
- 4 : 100mm
- 6 : 150mm

MOUNTING TYPE (Refer to Mounting type & Dimension)

- A : Bottom Connection, Direct
- B : Bottom Connection, Surface, Case Mounting Plate, Not available with diameter 75mm
- F : Center Back Connection, Direct
- J : Center Back Connection, Flush, Cover Mounting Plate, Only available with diameter 75mm
- H : Center Back Connection, Flush, Case Center Mounting Plate, Not available with diameter 75mm

ACCURACY

4 : ±1.5% of Full Scale.

CONNECTION

- C : 1/4"
- D : 3/8"
- E : 1/2", Not available diameter 75mm

CONNECTION TYPE

- B : PF
- C : PT
- D : NPT
- Z : OTHER

UNIT

- J : kPa
- S : mbar

RANGE

Refer to Pressure Unit & Range Table

PRESSURE CONNECTION & MAT'L & DIALS

- 1 : Brass & 2 Colors, Only available with diameter 75mm
- 3 : 316SS & 2 Colors, Not available with diameter 75mm

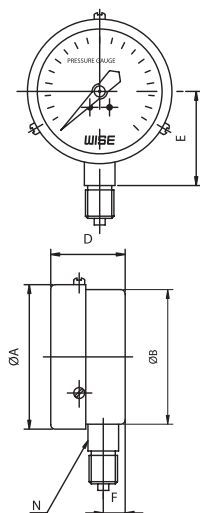
OPTIONS

- 0 : None
- 1 : Accessories
- 2 : External Zero Adjustment (75 and 100mm)

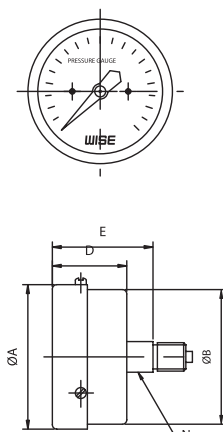
P421	4	A	4	E	C	J	122	3	1	SAMPLE MODEL NUMBER
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P421 : TYPE OF MOUNTING

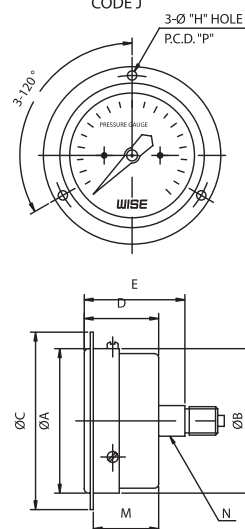
CODE A



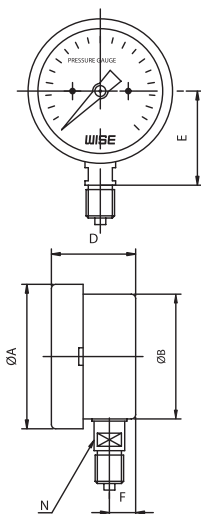
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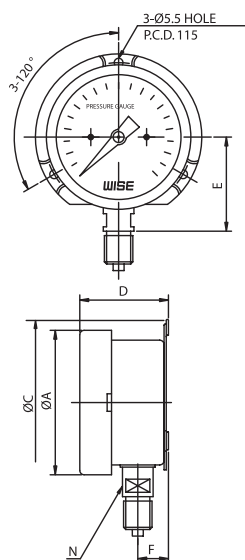
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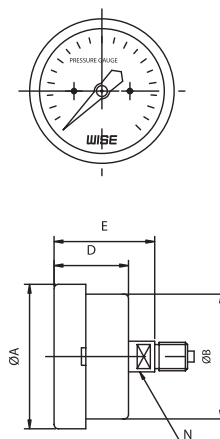
CODE A*



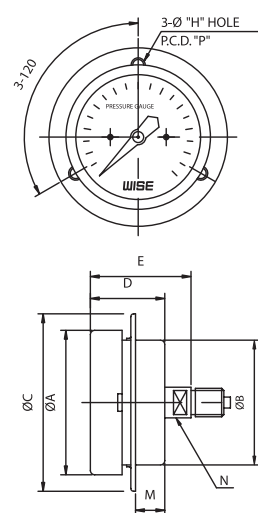
CODE B



CODE F*



CODE H



Dimensions (mm)

DIAL SIZE	AVAILABLE CODE	A	B	C	D	E	F	P	H	M	N
75	A	78	77		45	55	10.5				17
	F	78	77		44	59					17
	J	78	78	98	44	59		88	4.3	40	17
100	A*	111	100		59	73.5	13.7				17
	B	111		128	62	73.5	16.7				17
	F*	111	100		61	84					22
	H	111	100	132	61	84		116	4.8	34	22
150	A*	168.5	153.4		62.5	105.5	27				17
	B	168.5		178	66.5	105.5	31				17
	F*	168.5	153.4		62.5	85.5					22
	H	168.5	153.4	195	62.5	85.5		178	5.5	37.5	22

PRESSURE UNIT & RANGE TABLE

RANGE & CODE	UNIT & CODE		NOMINAL DIAMETER		
	S : mbar	J : kPa	75mm	100mm	150mm
105	-500~0	-50~0	○	×	×
104	-400~0	-40~0	×	×	×
001	-300~0	-30~0	○	○	○
103	-250~0	-25~0	○	○	○
002	-200~0	-20~0	○	○	○
003	-150~0	-15~0	○	○	○
004	-100~0	-10~0	○	○	○
006	-50~0	-5~0	○	○	○
007	-40~0	-4~0	×	○	○
008	-30~0	-3~0	×	○	○
009	-20~0	-2~0	×	○	○
010	-10~0	-1~0	×	×	○
073	-150~150	-15~15	○	○	○
071	-100~100	-10~10	○	○	○
014	-50~50	-5~5	○	○	○
016	-40~40	-4~4	×	○	○
018	-30~30	-3~3	○	○	○
019	-25~25	-2.5~2.5	○	○	○
020	-20~20	-2~2	×	○	○
022	-10~10	-1~1	×	○	○
023	-5~5	-0.5~0.5	×	×	○
058	0~10	0~1	×	×	○
061	0~20	0~2	×	○	○
063	0~30	0~3	×	○	○
065	0~40	0~4	×	○	○
066	0~50	0~5	○	○	○
070	0~100	0~10	○	○	○
116	0~150	0~15	○	○	○
117	0~200	0~20	○	○	○
118	0~250	0~25	○	○	○
119	0~300	0~30	○	○	○
120	0~350	0~35	×	○	○
121	0~400	0~40	×	×	×
123	0~500	0~50	○	×	×

○ : AVAILABLE × : NOT AVAILABLE