

# General service liquid filled pressure gauge

## Model : P254 series

Spec. sheet no. PD02-09

### Service intended

P254 series are designed to measure a high dynamic pressure load and it can be used where severe vibrations are present. It is recommended to be used with a gaseous and a liquid media that are not highly viscous and not to be used where copper alloy parts could be corroded. Its application extends to hydraulics, compressors and shipbuilding.



### Nominal diameter

63, 75 and 100 mm

### Accuracy

±1.5% of full scale

### Scale range (MPa, kPa, bar)

-0.1 ~ 0 to 0 ~ 40 MPa

### Working pressure

Steady : 75% of full scale

Over range protection : 130% of full scale

### Working temperature

Ambient : -20 ~ 60°C

-20 ~ 65°C (With glycerin filling)

-40 ~ 65°C (With silicone filling)

Fluid : Max. 60°C

### Fluid

Glycerin

### Degree of protection

EN60529/IEC529/IP67

### Temperature effect

Accuracy at temperature above and below the reference temperature (20°C) will be effected by approximately

±0.4% per 10°C of full scale



Oil filling type

## Standard features

### Pressure connection

Brass (63 mm)

Nickel plated brass (75 and 100 mm)

### Element

Brass

<6 MPa : C type bourdon tube

≥6 MPa : Helical type bourdon tube

### Case

Stainless steel (304SS)

### Cover

Stainless steel (304SS)

Crimp ring type

### Window

Polycarbonate (63 mm)

Safety glass (75 and 100 mm)

### Movement

Brass

### Dial

White aluminium with black graduations

### Pointer

Black painted aluminium alloy

### Process connection

63 mm : 1/4" PT, NPT and PF

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

100 mm : 1/4", 3/8", 1/2" PT, NPT and PF

One piece type connection (63 mm)

Two piece type connection (75 and 100 mm)

**1. Base model**

**P254** General service liquid filled pressure gauge

**2. Nominal diameter (mm)**

- 2 63
- 3 75
- 4 100

**3. Type of mounting**

- A** Bottom connection, direct
- B** Bottom connection, surface, case mounting plate
- F** Center back mount, direct
- H** Center back connection, flush, case center mounting plate
- I** Center back connection, case center mounting bracket (Only available with diameter 63 mm)

**4. Accuracy**

- 4 ±1.5% of full scale

**5. Process connection**

- C** 1/4"
- D** 3/8"
- E** 1/2"
- P** 7/16" UNF

**6. Connection type**

- B** PF
- C** PT
- D** NPT
- F** BSPT
- G** BSP
- E** UNF
- Z** Other

**7. Unit**

- X** Refer to pressure unit and range table

**8. Range**

**XXX** Refer to pressure unit and range table

**9. Dial color**

- 1 2 colors
- 5 3 colors

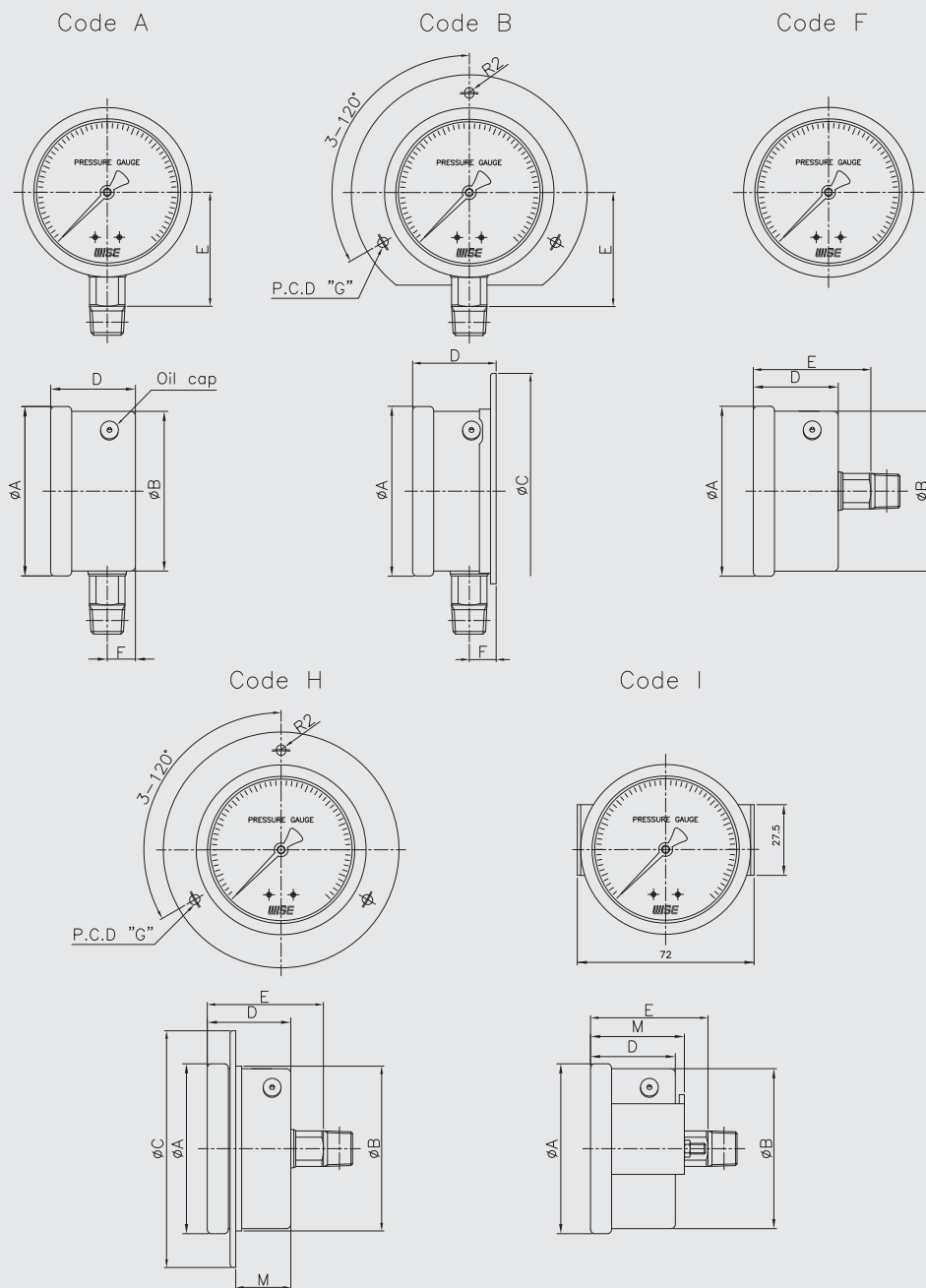
**10. Option**

- 0 None
- 1 Accessories

1	2	3	4	5	6	7	8	9	10
P254	4	A	4	E	D	X	XXX	1	0

Sample  
ordering code

## P254 : Type of mounting



Dimensions (mm)

Dial size	Available code	A	B	C	D±2	E±2	F±1	M	G
63	A	68	62		33	44.3	12.7		
	B	68		86	34	44.3	13.7		74~78
	F	68	62		33	42.5			
	H	68	64	86	33	42.5		26	74~78
	I	68	62		33	42.5		42	
75	A	85.5	76.5		34	56	10		
	B	85.5		105	36	56	12		93.5
	F	85.5	76.5		34	52			
	H	85.5	79	105	34	52		28	93.5
100	A	109.8	101.3		38.5	65	12.5		
	B	109.8		128	41.5	65	14		115
	F	109.8	101.3		38.5	52			
	H	109.8	103	128	38.5	52		27	114~117

## Pressure unit and range table

Range and code	Unit and code			Nominal diameter		
	H : bar	I : MPa	J : kPa	63 mm	75 mm	100 mm
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	O	O	O
041	0 ~ 1	0 ~ 0.1	0 ~ 100	O	O	O
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O
055	0 ~ 50	0 ~ 5	X	O	O	O
057	0 ~ 70	0 ~ 7	X	O	O	O
058	0 ~ 100	0 ~ 10	X	O	O	O
059	0 ~ 150	0 ~ 15	X	O	O	O
062	0 ~ 250	0 ~ 25	X	O	O	O
064	0 ~ 350	0 ~ 35	X	O	O	O
065	0 ~ 400	0 ~ 40	X	O	O	O
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	O	O	O
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	O	O	O
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	O	O	O
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	O	O	O
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	O	O	O
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	O	O	O
033	-1 ~ 15	-0.1 ~ 1.5	X	O	O	O
034	-1 ~ 20	-0.1 ~ 2	X	O	O	O

O : Available X : Not available