## 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

50. 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 ~ 60 °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



#### Standard features

#### **Pressure connection**

Brass (50 and 63 mm)

Nickel plated brass (75 and 100 mm)

#### **Element**

<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 (50 and 63 mm) Safety glass (75 and 100 mm)

#### Movement

Brass

#### Dial

White aluminium with black graduations

#### **Pointer**

Black painted aluminium alloy

#### **Process connection**

50 and 63 mm : 1/8", 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 (50 and 63 mm) Two piece type connection (75 and 100 mm)



## Main order

## **Ordering information**

#### 1. Base model

P254 General service liquid filled pressure gauge

#### 2. Nominal diameter (mm)

- 1 50
- **2** 63
- **3** 75
- 4 100

#### 3. Type of mounting

- A Bottom connection, direct
- B Bottom connection, surface, case mounting plate, not available with diameter 50 mm
- F Center back mount, direct
- H Center back connection, flush, case center mounting plate, not available with diameter 50 mm
- 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

- B 1/8"
- C 1/4"
- D 3/8", not available with diameter 50 and 63 mm
- E 1/2", not available with diameter 50, 63 and 75 mm
- P 7/16" (UNF)

#### 6. Connection type

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

#### 7. Unit

- **H** bar
- I MPa
- J kPa
- Z Other

#### 8. Range

XXX Refer to pressure unit and range table

#### 9. Dial color

- 1 2 colors
- 5 3 colors

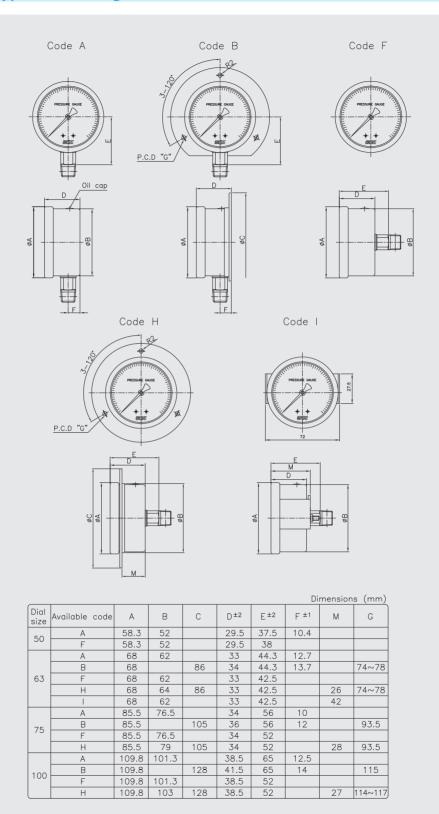
#### 10. Option

- 0 None
- 1 Accessories
- 8 Silicone filling
- 9 Glycerin filling

2 3 4 5 6 7 8 9 10 Sample 4 P254 Α 4 Ε D Н XXX ordering code



# P254: Type of mounting





# Pressure unit and range table

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

O : Available X : Not available

