Crimped-on-ring case pressure gauge

Model: P255-fully stainless steel construction

Spec. sheet no. PD02-10

Service intended

P255 liquid filled series are suitable for applications with high dynamic pressure loads or vibrations. It is suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system. Suitable for machinary industry and parts for various facilities and equipments.



Nominal diameter

63, 80 and 100 mm

Accuracy

63 and 80 mm: ±1.6% of full scale 100 mm: ±1.0% of full scale

Scale range (MPa, kPa, bar)

63 and 80 mm : -0.1 ~ 0 to 0 ~ 100 MPa 100 mm : -0.1 ~ 0 to 0 ~ 200 MPa

Working pressure

Steady: 75% of full scale

Over range protection: 130% of full scale

Working temperature

Ambient: -40 ~ 65°C

-20 ~ 65°C (With glycerin filling) -40 ~ 65°C (With silicone filling)

Fluid: Max. 200°C

Max. 100°C (With glycerin filling) Max. 100°C (With silicone filling)

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



Pressure connection

Stainless steel (316SS)

Element

63 and 80 mm : ≤0.3 MPa : C type bourdon tube (316SS)

≥0.4 and < 6 MPa : C type bourdon tube (304SS) Dial

≥6 MPa: Helical type boudon tube (316SS)

100 mm : ≤0.1 MPa : C type bourdon tube (316SS)

≥0.2 and <10 MPa : C type bourdon tube (304SS)

≥10 MPa: Herical type boudon tube (316SS)

Case and cover

Stainless steel (304SS) Crimp ring type

Window

Safety glass

Movement

Stainless steel

White aluminium with black graduations

Pointer

Black painted aluminium alloy

Process connection

63 mm: 1/4" PT. NPT and PF 80 mm : 1/4". 3/8" PT. NPT and PF 100 mm : 1/4", 3/8", 1/2" PT, NPT and PF



Main order

Ordering information

1. Base model

P255 Crimp-on-ring case pressure gauge

2. Nominal diameter (mm)

- 2 63
- 3 80
- 4 100

3. Type of mounting

- A Bottom connection, direct
- **B** Bottom connection, surface, case mounting plate
- F Center back connection, direct, only available with diameter 63 mm
- G Lower back connection, direct
- H Center back connection, case center mounting plate, only available with diameter 63 mm
- I Center back connection, cover mounting with bracket, only available with diameter 63 mm
- L Lower back connection, flush, case center mounting plate
- W Lower back connection, flush, cover mounting bracket

4. Accuracy

- 3 ±1.0% of full scale, only available with diameter 100 mm
- 4 ±1.6% of full scale, only available with diameter 63 and 80 mm

5. Process connection

- C 1/4
- D 3/8", not available with diameter 63 mm
- E 1/2", not available with diameter 63 and 80 mm
- P 7/16" (UNF)

6. Connection type

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

7. Unit

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

8. Range

XXX Refer to pressure unit and range table

9. Pressure connection material and dial color

- 3 316SS and 2 colors
- 7 316SS and 3 colors

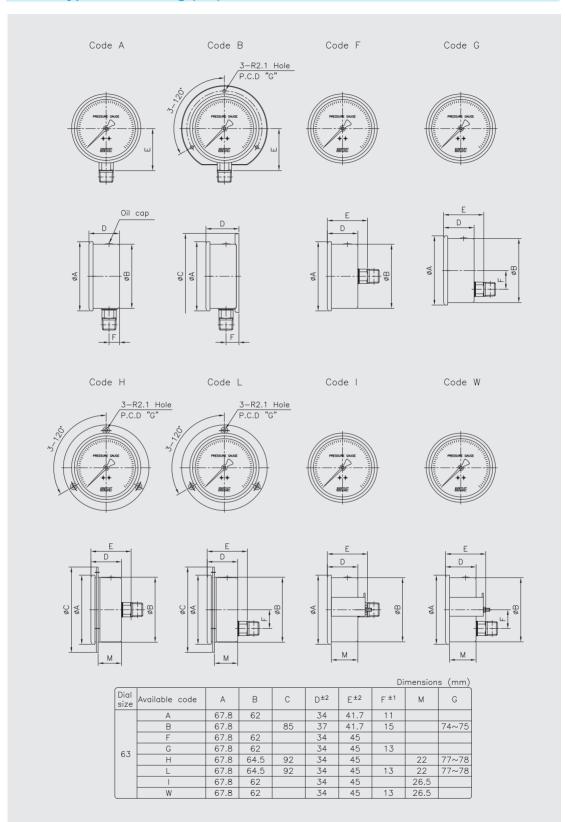
10. Option

- 0 None
- 8 Silicone filling
- 9 Glycerin filling

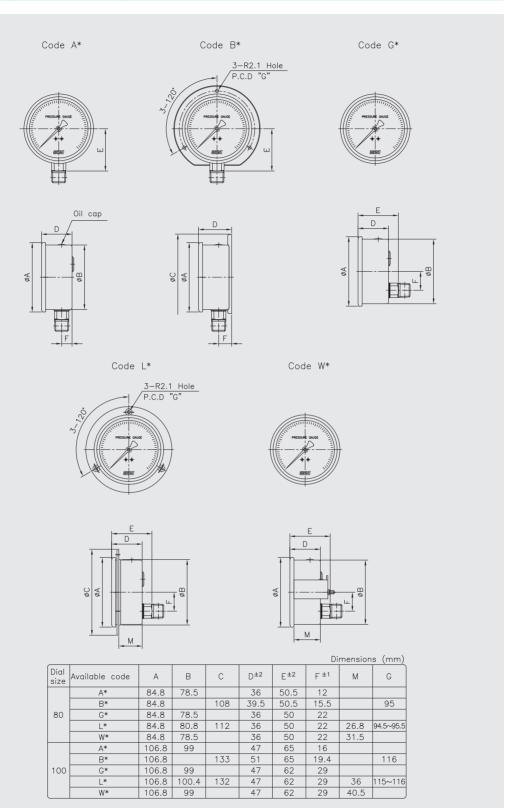
1	2	3	4	5	6	7	8	9	10
P255	2	Α	4	С	D	Н	XXX	3	9



P255: Type of mounting (1/2)



P255: Type of mounting (2/2)



Pressure unit and range table

Range and code		Unit and code)	63 mm	80 mm	100 mm	
Range and code	H : bar	I : MPa	J : kPa	03 111111	00 111111	100 111111	
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	0	0	0	
040	0 ~ 0.5	0 ~ 0.05	0 ~ 50	X	X	0	
041	0 ~ 1	0 ~ 0.1	0 ~ 100	0	0	0	
042	0 ~ 2	0 ~ 0.2	0 ~ 200	0	0	0	
043	0 ~ 3	0 ~ 0.3	0 ~ 300	0	0	0	
044	0 ~ 4	0 ~ 0.4	0 ~ 400	0	0	0	
045	0 ~ 6	0 ~ 0.6	0 ~ 600	0	0	0	
047	0 ~ 10	0 ~ 1	0 ~ 1,000	0	0	0	
050	0 ~ 15	0 ~ 1.5	X	0	0	0	
051	0 ~ 20	0 ~ 2	X	0	0	0	
052	0 ~ 25	0 ~ 2.5	X	0	0	0	
054	0 ~ 35	0 ~ 3.5	X	0	0	0	
055	0 ~ 50	0 ~ 5	X	0	0	0	
057	0 ~ 70	0 ~ 7	X	0	0	0	
058	0 ~ 100	0 ~ 10	X	0	0	0	
059	0 ~ 150	0 ~ 15	X	0	0	0	
062	0 ~ 250	0 ~ 25	X	0	0	0	
064	0 ~ 350	0 ~ 35	X	0	0	0	
066	0 ~ 500	0 ~ 50	X	0	0	0	
067	0 ~ 600	0 ~ 60	X	0	0	0	
068	0 ~ 700	0 ~ 70	X	0	0	0	
070	0 ~ 1,000	0 ~ 100	X	0	0	0	
074	0 ~ 1,600	0 ~ 160	X	Х	Х	0	
075	0 ~ 2,000	0 ~ 200	X	Х	Х	0	
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	0	0	0	
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	0	0	0	
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	0	0	0	
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	0	0	0	
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	0	0	0	
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	0	0	0	
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5 MPa	0	0	0	
034	-1 ~ 20	-0.1 ~2	-100 ~2 MPa	0	0	0	

O : Available X : Not available

