

# Liquid filled industrial pressure gauge



## Service intended

The P258 Series are suitable for corrosive environment. Typical application includes: chemical, petrochemical, refining, power, marine or food industry. The filled liquid absorbs vibration effect and pulsation pressure.

## Nominal diameter

63, 80, 100 and 150mm

## Accuracy

Model : P2582(63mm) & P2583(80mm) :  $\pm 1.6\%$  of full scale  
Model : P2584(100mm) & P2586(150mm) :  $\pm 1.0\%$  of full scale

## Scale range (MPa, kPa, bar)

63 and 80mm : -0.1 ~ 0 to 0 ~ 100MPa  
100 and 150mm : -0.1 ~ 0 to 0 ~ 200MPa

## Working pressure

Steady : 75% of full scale  
Over Range Protection : 130% of full scale

## Filling liquid

Glycerine  
(Option : Silicon Oil)

## Working temperature

Ambient : -20 ~ 65°C  
Fluid : -20 ~ 80°C

## Degree of protection

IP67



## Standard features

### Pressure connection

Stainless Steel(316SS)  
Option: Monel  
Threaded entry, radial or back.

### Element

Stainless Steel(316SS)  
Option: Monel  
Model : P2584(100mm) & P2586(150mm)  
< 10MPa : C Type Bourdon Tube  
 $\geq 10$ MPa : Helical Type Bourdon Tube  
Model : P2582(63mm) & P2583(80mm)  
< 6MPa : C Type Bourdon Tube  
 $\geq 6$ MPa : Helical Type Bourdon Tube

### Blowout protection

Back, Rubber Disc for 80, 100 and 150mm  
Top, Rubber Disc for 63mm

### Case & bezel ring

Stainless Steel (304SS)  
Bayonet Type

### Window

63 and 80mm - Glass  
100 and 150mm - Safety Glass

### Movement

Stainless Steel

### Dial

White Aluminum with Black Graduations

### Pointer

Aluminium alloy, Black painted

### Process connection

63mm : 1/8", 1/4" PT, NPT & PF  
80mm : 1/4", 3/8" PT, NPT & PF  
100 and 150mm : 1/4", 3/8", 1/2" PT, NPT & PF

### Optional

Electropolished Bezel Ring  
Zero adjustable pointer  
(Only available with diameter 100 and 150mm)

## Ordering information

### Base model

#### P258: Liquid filled industrial pressure gauge

##### Nominal diameter

- 2 : 63mm
- 3 : 80mm
- 4 : 100mm
- 6 : 150mm

##### Mounting type (Refer to mounting type & dimension)

- A: Bottom Connection, Direct
- B: Bottom Connection, Surface, Case Mounting Plate
- F: Center back Connection, Direct, Only available with diameter 63mm
- G: Lower back Connection, Direct
- H: Center back Connection, Flush, Case Center Mounting Plate, Only available with diameter 63mm
- I : Center back Connection, Flush, Case Center Mounting Plate, with Bracket  
Only available with diameter 63mm
- J : Center back Connection, Flush, Cover Mounting Plate, Only available with diameter 63mm
- L : Lower back Connection, Flush, Case Center Mounting Plate
- M: Lower back Connection, Flush, Case Center Mounting Bracket
- N: Lower back Connection, Flush, Cover Mounting Plate, Not available with diameter 160mm
- V: Center back Connection, Flush, Cover Mounting Bracket, Only available with diameter 63mm
- W: Lower back Connection, Flush, Cover Mounting Bracket

##### Accuracy

- 3 :  $\pm 1.0\%$  of Full Scale, Not available with diameter 63 & 80mm
- 4 :  $\pm 1.6\%$  of Full Scale, Only available with diameter 63 & 80mm

##### Connection

- B : 1/8", Only available with diameter 63mm
- C : 1/4"
- D : 3/8", Not available with diameter 63mm
- E : 1/2", Not available with diameter 63 & 80mm

##### Connection type

- B : PF
- C : PT
- D : NPT
- F : BSPT
- G : BSP(G)
- Z : Other

##### Unit

Refer to Pressure Unit and Range Table

##### Range

Refer to Pressure Unit and Range Table

##### Pressure connection Mat'l & dials

- 3 : 316SS & 2 Colors
- 4 : 316LSS & 2 Colors
- 7 : 316SS & 3 Colors
- 8 : 316LSS & 3 Colors, Available with Compound and Vacuum Gauges
- Z : MONEL

##### Options

- 0 : None
- 1 : Accessories

P258

4

A

3

E

D

H

047

3

0

Sample  
model number

## Pressure unit &amp; range table

RANGE & CODE	UNIT & CODE			NOMINAL DIAMETER			
	H : bar	I : MPa	J : kPa	63mm	80mm	100mm	160mm
026	-1	-0,1	-100	○	○	○	○
040	0,5	0,05	50	×	×	○	○
041	1	0,1	100	○	○	○	○
133	1,6	0,16	160	○	○	○	○
042	2	0,2	200	○	○	○	○
134	2,5	0,25	250	○	○	○	○
043	3	0,3	300	○	○	○	○
044	4	0,4	400	○	○	○	○
045	6	0,6	600	○	○	○	○
047	10	1	1000	○	○	○	○
050	15	1,5	-	○	○	○	○
143	16	1,6	-	○	○	○	○
051	20	2	-	○	○	○	○
052	25	2,5	-	○	○	○	○
054	35	3,5	-	○	○	○	○
151	40	4	-	○	○	○	○
055	50	5	-	○	○	○	○
056	60	6	-	○	○	○	○
057	70	7	-	○	○	○	○
058	100	10	-	○	○	○	○
059	150	15	-	○	○	○	○
060	160	16	-	○	○	○	○
062	250	25	-	○	○	○	○
064	350	35	-	○	○	○	○
065	400	40	-	○	○	○	○
066	500	50	-	○	○	○	○
067	600	60	-	○	○	○	○
068	700	70	-	○	○	○	○
070	1000	100	-	○	○	○	○
074	1600	160	-	×	×	○	○
075	2000	200	-	×	×	○	○
027	-1~1	-0,1~0,1	-100~100	○	○	○	○
127	-1~1,6	-0,1~0,16	-100~160	○	○	○	○
028	-1~2	-0,1~0,2	-100~200	○	○	○	○
129	-1~2,5	-0,1~0,25	-100~250	○	○	○	○
029	-1~3	-0,1~0,3	-100~300	○	○	○	○
030	-1~4	-0,1~0,4	-100~400	○	○	○	○
010	-1~5	-0,1~0,5	-100~500	○	○	○	○
031	-1~6	-0,1~0,6	-100~600	○	○	○	○
014	-1~9	-0,1~0,9	-100~900	○	○	○	○
032	-1~10	-0,1~1	-100~1000	○	○	○	○
033	-1~15	-0,1~1,5	-100~1,5MPa	○	○	○	○
034	-1~20	-0,1~2	-100~2MPa	○	○	○	○
035	-1~25	-0,1~2,5	-100~2,5MPa	○	○	○	○

○ : AVAILABLE × : NOT AVAILABLE