0.5 CLASS TEST PRESSURE GAUGE
Model : P229 series

Spec. sheet no. PD02-04

Service intended
P229 series are designed to be used in instrument shops, laboratories and for other critical applications where a high degree of accuracy is required.

Nominal diameter
160 mm

Accuracy
±0.5 % of full scale

Scale range (MPa, kPa, bar)
-0.1 ~ 0 to 0 ~ 0.1 to 0 ~ 200 MPa

Working pressure
Full scale value

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 (160 mm)

Temperature effect
Accuracy at temperature above and below the reference temperature (20 ℃) will be effected by approximately ±0.4 % per 10 ℃ of full scale



Standard features

Pressure connection
Stainless steel (316SS)

Element
Stainless steel (316SS)
<10 MPa : C type bourdon tube
≥10 MPa : Helical type bourdon tube

Case
Stainless steel (304SS)

Cover
Stainless steel (304SS)

Window
Laminated safety glass

Movement
Stainless steel

Dial
White aluminium with black graduations

Pointer
Black painted aluminium alloy

Zero adjustment
Internal : Micro zero adjustable pointer

Process connection
¼", ⅜", ½" PT, NPT and PF

Certificates
ATEX II 2G Ex h IIC T6...T1 Gb
ATEX II 2D Ex h IIIC T85°C....T450°C Db

Option
Pressure connection and element : Monel

Main order — Ordering information

1. Base model

P229 Test pressure gauge

2. Nominal diameter (mm)

6 160

3. Type of mounting

A Bottom connection, direct
B Bottom connection, surface, case mounting plate
G Lower back connection, direct
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

4. Accuracy

2 ±0.5 % of full scale

5. Process connection

C ¼"
D ⅜"
E ½"

6. Connection type

B PF
C PT
D NPT

7. Unit

H bar
I MPa
J kPa

8. Range

XXX Refer to pressure unit and range table

9. Pressure connection material and dial color

3 316SS and 2 colors
4 316L SS and 2 colors
5 Monel and 2 colors
7 316SS and 3 colors

10. Option

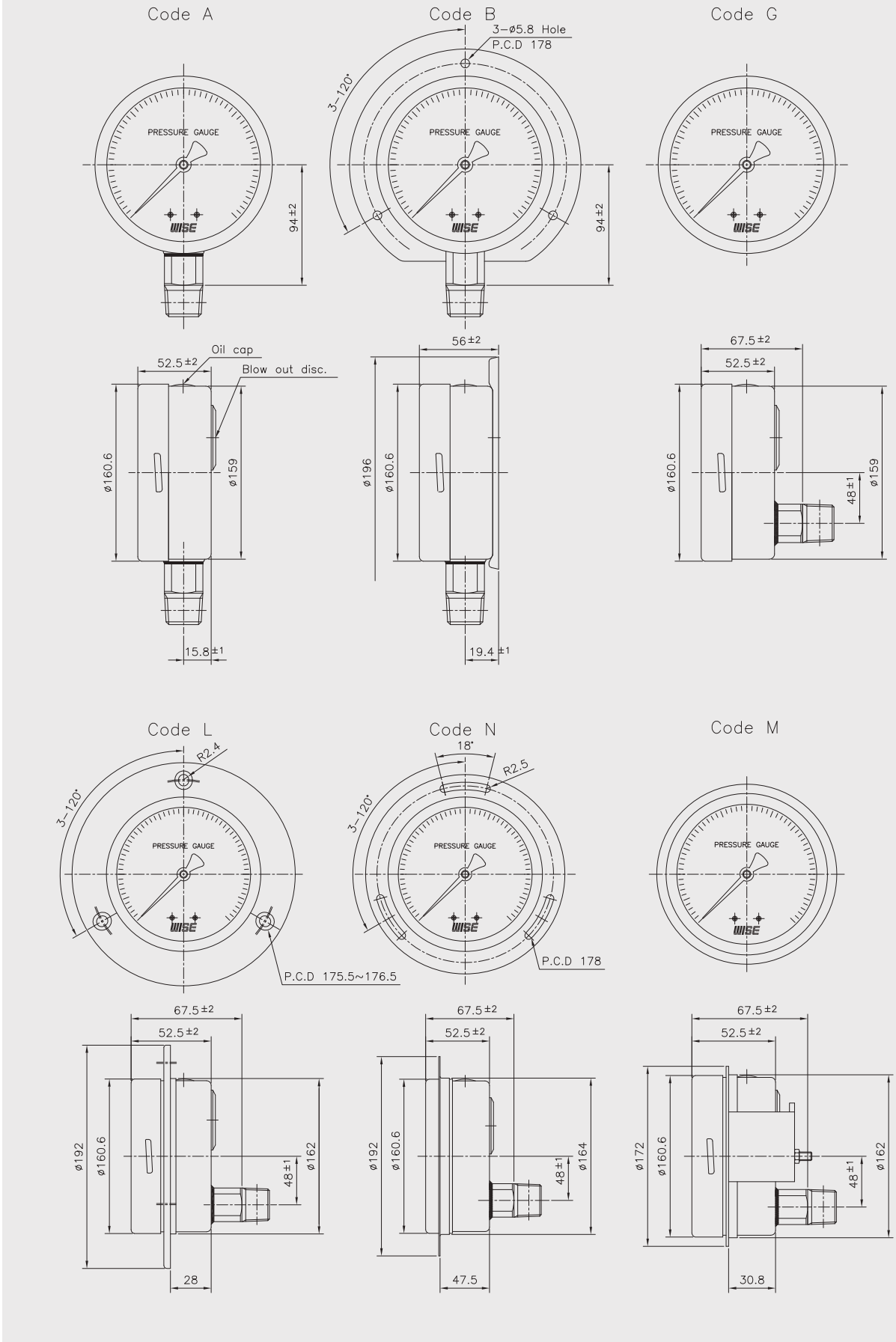
0 None
1 Accessories
2 Glycerin filling
4 Silicone filling

Sample ordering code

1	2	3	4	5	6	7	8	9	10
P229	**6**	**A**	**2**	**E**	**C**	**I**	**XXX**	**3**	**0**

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P229 : Type of mounting



Pressure unit and range table

Range and code	Unit and code			Nominal diameter
	H : bar	I : MPa	J : kPa	P229
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	O
041	0 ~ 1	0 ~ 0.1	0 ~ 100	O
133	0 ~ 1.6	0 ~ 0.16	1 ~ 160	O
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O
134	0 ~ 2.5	0 ~ 0.25	0 ~ 250	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O
050	0 ~ 15	0 ~ 1.5	X	O
143	0 ~ 16	0 ~ 1.6	X	O
051	0 ~ 20	0 ~ 2	X	O
052	0 ~ 25	0 ~ 2.5	X	O
054	0 ~ 35	0 ~ 3.5	X	O
151	0 ~ 40	0 ~ 4	X	O
055	0 ~ 50	0 ~ 5	X	O
056	0 ~ 60	0 ~ 6	X	O
057	0 ~ 70	0 ~ 7	X	O
058	0 ~ 100	0 ~ 10	X	O
059	0 ~ 150	0 ~ 15	X	O
060	0 ~ 160	0 ~ 16	X	O
062	0 ~ 250	0 ~ 25	X	O
064	0 ~ 350	0 ~ 35	X	O
065	0 ~ 400	0 ~ 40	X	O
066	0 ~ 500	0 ~ 50	X	O
067	0 ~ 600	0 ~ 60	X	O
068	0 ~ 700	0 ~ 70	X	O
070	0 ~ 1,000	0 ~ 100	X	O
074	0 ~ 1,600	0 ~ 160	X	O
075	0 ~ 2,000	0 ~ 200	X	O
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	O
007	-1 ~ 1.5	-1 ~ 0.15	-100 ~ 150	O
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	O
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	O
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	O
010	-1 ~ 5	-0.1 ~ 0.5	-100 ~ 500	O
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	O
014	-1 ~ 9	-0.1 ~ 0.9	-100 ~ 900	O
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	O
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5 MPa	O
034	-1 ~ 20	-0.1 ~ 2	-100 ~ 2 MPa	O
017	-1 ~ 24	-0.1 ~ 2.4	-100 ~ 2.4 MPa	O
035	-1 ~ 25	-0.1 ~ 2.5	-100 ~ 2.5 MPa	O

O : Available X : Not available