

EURO GAUGE® LIQUID FILLED PRESSURE GAUGE MODEL : P259 SERIES

WISE®

SERVICE INTENDED

The P259 Series are suitable for corrosive environment. Typical application include : chemical, petrochemical, refining, power, marine or food industry. The filled liquid absorbs vibration effect and pulsation pressure.

NOMINAL DIAMETER

63, 100 and 160mm

ACCURACY

Model : P2592(63mm) : $\pm 1.6\%$ of Full Scale

Model : P2534(100mm) & P2536(160mm) : $\pm 1.0\%$ of Full Scale

SCALE RANGE (kgf/cm², bar, kPa, MPa)

63mm : -76cmHg ~ 0 to 0 ~ 350kgf/cm²

100 and 160mm : -76cmHg ~ 0 to 0 ~ 1000kgf/cm²

WORKING PRESSURE

Steady : 75% of Full Scale

Over Range Protection : 130% of Full Scale

FILLING LIQUID

Glycerine

WORKING TEMPERATURE

Ambient : -20 ~ 65°C

Fluid : -20 ~ 80°C

DEGREE OF PROTECTION

IP67



Standard Features

PRESSURE CONNECTION

Cu Alloy 2.0460

Threaded entry, Radial or back.

ELEMENT

Cu Alloy 2.0460

Model : P2594(100mm) & P2536(160mm)

<100bar : C Type Bourdon Tube

≥100bar : Helical Type Bourdon Tube
with 316SS

Model : P2592(63mm)

<60bar : C Type Bourdon Tube

≥60bar : Helical Type Bourdon Tube

BLOWOUT PROTECTION

Back, Rubber Disc for 100 and 160mm

Top, Rubber Disc for 63mm

CASE & BEZEL RING

Stainless Steel (304SS)

Bayonet Type

WINDOW

63mm - Glass

100 and 160mm - Safety Glass

MOVEMENT

63mm : Cu Alloy 2.0360

100 and 160mm :

Stainless Steel (304SS)

DIAL

White Aluminum with Black Graduations

POINTER

Aluminium alloy, Black painted

PROCESS CONNECTION

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

100 and 160mm : 3/8", 1/2" PT, NPT & PF

OPTIONS

Electropolished Bezel Ring

Zero adjustable pointer

(Only available with diameter 100 and 160mm)

ORDERING INFORMATION

BASE MODEL

P259 : LIQUID FILLED PRESSURE GAUGE

NOMINAL DIAMETER

- 2 : 63mm
- 4 : 100mm
- 6 : 160mm

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, Only available with diameter 100mm
- 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, Only available with diameter 100mm
- M : Lower back Connection, Flush, Case Center Mounting Bracket, Only available with diameter 100mm
- N : Lower back Connection, Flush, Cover Mounting Plate, Only available with diameter 100mm
- V : Center back Connection, Flush, Cover Mounting Bracket, Only available with diameter 63mm
- W : Lower back Connection, Flush, Cover Mounting Bracket, Only available with diameter 100mm

ACCURACY

- 3 : ±1.0% of Full Scale, Not available with diameter 63mm
- 4 : ±1.6% of Full Scale, Only available with diameter 63mm

CONNECTION

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

CONNECTION TYPE

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

UNIT

Refer to Pressure Unit & Range Table

RANGE

Refer to Pressure Unit & Range Table

DIAL COLOR

- 1 : 2 Colors
- 5 : 3 Colors

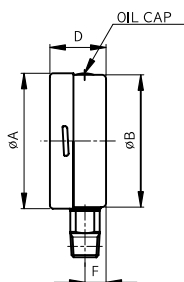
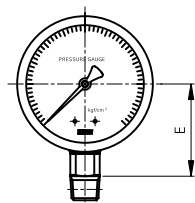
OPTIONS

- 0 : None
- 1 : Accessories

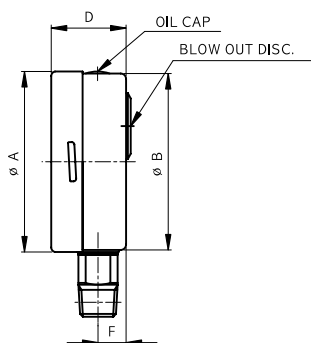
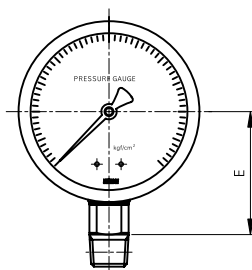
P259	4	A	3	E	D	H	047	1	0	SAMPLE MODEL NUMBER
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P259 : TYPE OF MOUNTING (1/2)

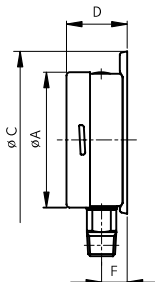
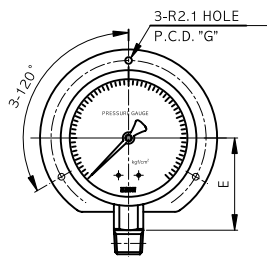
CODE A



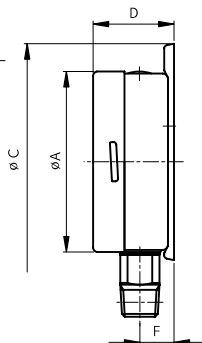
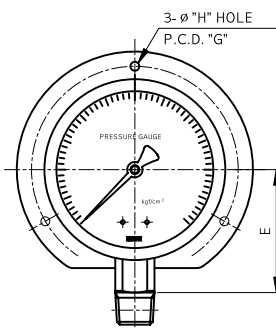
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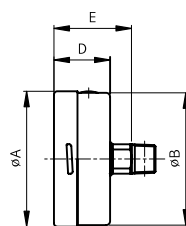
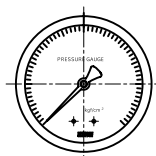
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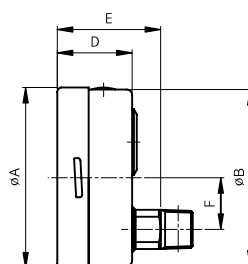
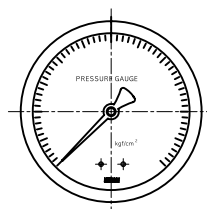
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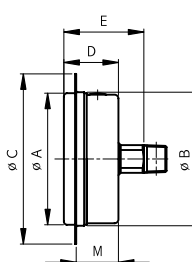
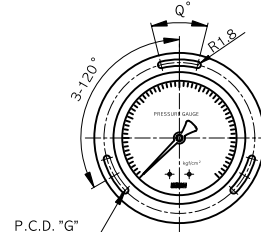
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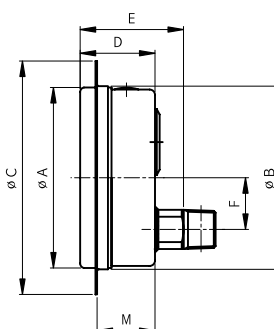
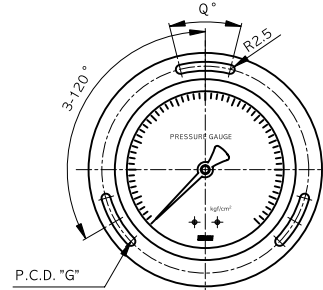
CODE G*



CODE J



CODE N*

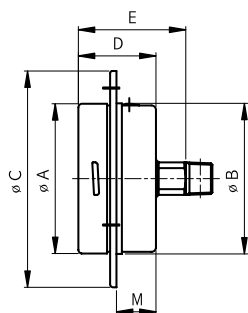
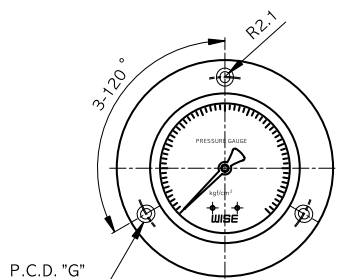


Dimensions (mm)

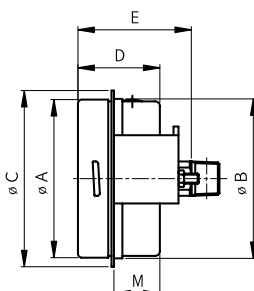
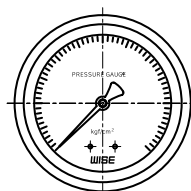
DIAL SIZE	AVAILABLE CODE	A	B	C	D	E	F	M	G	H	Q
63	A	63.7	62		34	41.7	11				
	B	63.7		85	37	41.7	15		74~75		
	F	63.7	62		34	45					
	J	63.7	66	86	34	45		28	75		15
100	A*	101.3	99		50	65	16				
	B*	101.3		133	54.4	65	19.4		115~116	R2.5	
	G*	101.3	99		50	65	29				
	N*	101.3	103.1	130.5	50	65	29	45	116		28
160	A*	160.6	159		52.5	94	15.8				
	B*	160.6		196	56	94	19.3		178	5.8	

P259 : TYPE OF MOUNTING (2/2)

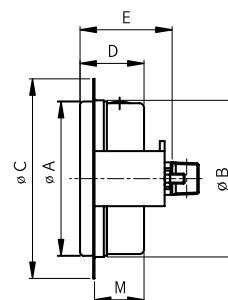
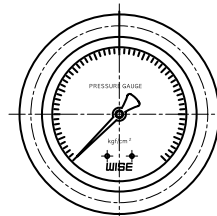
CODE H



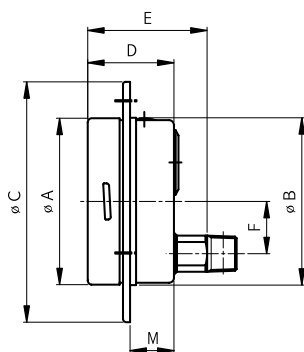
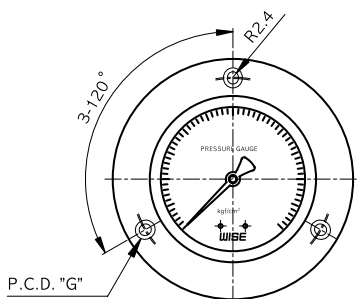
CODE I



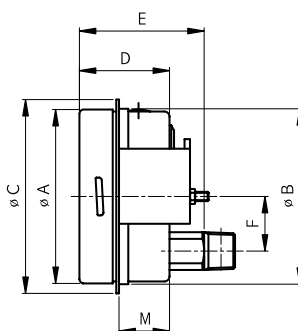
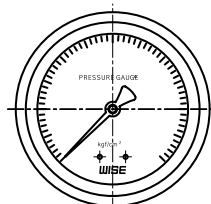
CODE V



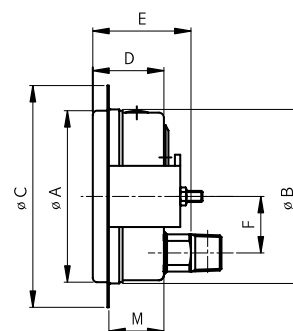
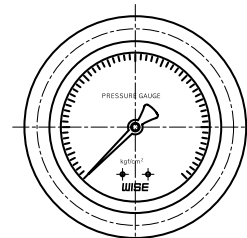
CODE L*



CODE M*



CODE W*



Dimensions (mm)

DIAL SIZE	AVAILABLE CODE	A	B	C	D	E	F	M	G
63	H	63.7	64.5	92	34	45			77~78
	I	63.7	63.7	71	34	45		18.5	
	V	63.7	66	86	34	45		28	
100	L*	101.3	100.4	132	50	65	29	27.7	115~116
	M*	101.3	101	107.5	50	65	29	29.5	
	W*	101.3	103.1	130.5	50	65	29	45	

PRESSURE UNIT & RANGE TABLE

RANGE & CODE	UNIT & CODE					63mm	100mm	160mm
	C : cmHg	B : kgf/cm ²	H : bar	J : kPa	I : MPa			
026	-76~0	X	-1~0	-100~0	X	○	○	○
040	X	0~0.5	0~0.5	X	X	X	○	○
041	X	0~1	0~1	0~100	X	○	○	○
042	X	0~2	0~2	0~200	X	○	○	○
043	X	0~3	0~3	0~300	X	○	○	○
044	X	0~4	0~4	0~400	X	○	○	○
045	X	0~6	0~6	0~600	X	○	○	○
047	X	0~10	0~10	0~1000	X	○	○	○
050	X	0~15	0~15	X	0~1.5	○	○	○
051	X	0~20	0~20	X	0~2	○	○	○
052	X	0~25	0~25	X	0~2.5	○	○	○
054	X	0~35	0~35	X	0~3.5	○	○	○
055	X	0~50	0~50	X	0~5	○	○	○
057	X	0~70	0~70	X	0~7	○	○	○
058	X	0~100	0~100	X	0~10	○	○	○
059	X	0~150	0~150	X	0~15	○	○	○
062	X	0~250	0~250	X	0~25	○	○	○
064	X	0~350	0~350	X	0~35	○	○	○
066	X	0~500	0~500	X	0~50	X	○	○
068	X	0~700	0~700	X	0~70	X	○	○
070	X	0~1000	0~1000	X	0~100	X	○	○
027	X	-76~1	-1~1	-100~100	X	○	○	○
028	X	-76~2	-1~2	-100~200	X	○	○	○
029	X	-76~3	-1~3	-100~300	X	○	○	○
030	X	-76~4	-1~4	-100~400	X	○	○	○
031	X	-76~6	-1~6	-100~600	X	○	○	○
032	X	-76~10	-1~10	-100~1000	X	○	○	○
033	X	-76~15	-1~15	X	-100~1.5	○	○	○
034	X	-76~20	-1~20	X	-100~2	○	○	○

○ : AVAILABLE × : NOT AVAILABLE

CONVERSION TABLE

PRESSURE CONVERSION CHART								
PSI	ATM	kg/cm²	in.H ₂ O	mmHg	in.Hg	kPa	Bar	mmH ₂ O
1	0.068046	0.070307	27.7276	51.715	2.03602	6.895	0.06895	704.28104
14.696	1	1.0332	407.484	760	29.921	101.325	1.01325	10350.0936
14.2233	0.96784	1	394.38	735.559	28.959	98.096	0.98067	10000
0.036092	0.002454	0.00253	1	1.8651	0.07343	0.249	0.00249	25.4
0.019336	0.001315	0.001359	0.53616	1	0.03937	0.1333	0.001333	13.618464
0.491154	0.0033421	0.03453	13.6185	25.4	1	3.3864	0.033864	345.9099
0.145	0.00987	0.010197	4.0186	7.5006	0.2953	1	0.01	102.07244
14.5038	0.98692	1.01972	402.156	750.062	29.53	100	1	10214.7624
0.00142	0.000097	0.0001	0.03937	0.0734	0.0029	0.0098	0.000098	1

VOLUME CONVERSION CHART							
GALLON (U.S)	CUBIC FEET	CUBIC INCHES	BARRELS (OIL)	CUBIC CM	CUBIC METER	LITER	IMP. GALLON
1	0.1337	231	0.02381	3785	0.003785	3.785	0.8327
7.481	1	1728	0.1781	28320	0.02832	28.32	6.229
0.004329	0.000578	1	0.000103	16.39	0.000016	0.01639	0.003605
42	5.615	9702	1	159000	0.159	158.94	34.97
0.000264	0.000035	0.06102	0.000006	1	0.000001	0.001	0.00022
264.17	35.3144	61023	6.2906	1000000	1	1000	220.1
0.264	0.0353	61.03	0.0629	1000	0.001	1	0.22
1.201	0.1606	277.4	0.0286	4546	0.004546	4.546	1

MASS CONVERSION CHART							
lb.	oz.	kg	gm	gal H ₂ O (32F)	long ton	metric tonne	ton
1	16	0.4536	453.6	0.1198	0.000446	0.000453	0.0005
0.0625	1	0.02835	28.35	0.00749	0.000027	0.000028	0.000031
2.205	35.27	1	1000	0.2642	0.009839	0.001	0.001102
0.002205	0.03527	0.001	1	0.000264	0.000000	0.000001	0.000001
8.345	133.5	3.785	3785	1	0.003726	0.003786	0.004171
2240	35840	1016.4	1016363	268.352	1	1.016	1.12
2204.6	35273	1000	1000000	264.11	0.9842	1	1.1023
2000	32000	907.03	909090.9	239.7	0.892857	0.907194	1

DENSITY CONVERSION CHART			
lb/ft³	gm/cm²	kg/m³	lb/in³
1	0.016018	16.0184	0.000578
62.43	1	1000	0.03613
0.06243	0.001	1	0.000036
1728	27.68	27679.8	1