

Bourdon tube pressure gauge

Model : P112 series

Spec. sheet no. PD0-03

Service intended

P112 series are designed to withstand the shock, the vibration and the pulsation which could be generated from freon gas service.



Nominal diameter

60 and 75 mm

Accuracy

±1.5% of full scale

Scale range (MPa, kPa, bar)

60mm : -0.1 ~ 0.2, 0.4, 1.0, 1.5, 2.0 MPa

0 ~ 2.5, 0 ~ 3.5 MPa

75mm : -0.1 ~ 0.2, 0.4, 1.5 MPa

0 ~ 3.5 MPa

Working pressure

Steady : 75% of full scale

Over range protection : 130% of full scale

Working temperature

Ambient : -20 ~ 60°C

Fluid : Max. 60°C

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

Movement

Brass

Element

Brass

C type bourdon tube

Dial

White aluminium with black graduations

Case

Black finished steel

Pointer

Black painted aluminium alloy

Window

Polycarbonate (60 mm)

Glass (Only 75 mm)

Process connection

1/16" UNF

1/4" PT, NPT and PF

3/8" PT, NPT and PF (Only 75 mm)

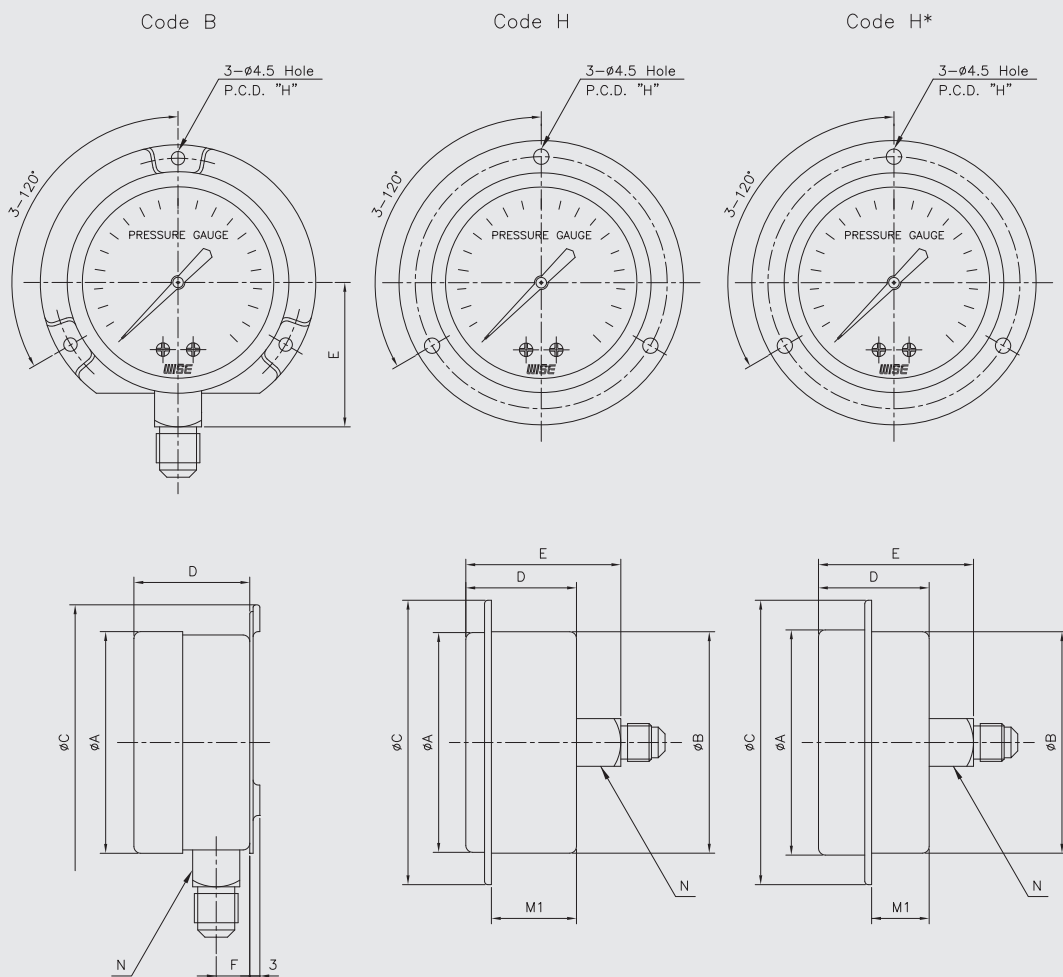
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1. Base model**P112** Bourdon tube pressure gauge**2. Nominal diameter (mm)****2** 60**3** 75**3. Type of mounting****B** Bottom connection, surface, case mounting plate**H** Center back connection, flush, case center mounting plate**4. Accuracy****4** ±1.5% of full scale**5. Process connection****C** ¼"**D** ⅜" (Only 75 mm)**P** 7/16" UNF**6. Connection type****B** PF**C** PT**D** NPT**7. Unit****H** bar**I** MPa**J** kPa**8. Range****028** -0.1 ~ 0.2 MPa**030** -0.1 ~ 0.4 MPa**032** -0.1 ~ 1 MPa**033** -0.1 ~ 1.2 MPa**034** -0.1 ~ 2 MPa**052** 0 ~ 2.5 MPa**054** 0 ~ 3.5 MPa**9. Dial color****1** 2 colors**5** 3 colors**10. Option****0** None**1** Accessories

1	2	3	4	5	6	7	8	9	10
P112	2	H	4	P	E	I	033	5	0

Sample
ordering code

P112 : Type of mounting



Dimensions (mm)

Dial size	Available code	A	B	C	D±2	E±2	F±1	H	M1	N
60	B	66		82	35.5	42	11	74		14
	H	66	65	83.5	34.5	44.5		74	27	14
75	B	78		100	34.7	52	12.7	90		17
	H*	78	77	100	34.7	46.7		90	19	17

Conversion table

Pressure conversion chart

psi	atm	kgf/cm²	inH₂O	mmHg	inHg	kPa	bar	mmH₂O
1	0.068046	0.070307	27.7276	51.715	2.03602	6.835	0.06895	704.28104
14.696	1	1.0332	407.484	760	29.921	101.325	1.01325	10,350.0936
14.2233	0.96784	1	394.38	735.559	28.959	98.096	0.98067	10,000
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	10,214.7624
0.00142	0.000097	0.0001	0.03937	0.0734	0.0029	0.0098	0.000098	1

Memo