

# General service pressure gauge

## Model : P110 series

Spec. sheet no. PD0-01

### Service intended

P110 series are a general service pressure gauge.  
P110 is a low cost and features high quality parts.  
It is suitable for a non-corrosive fluid. Air, oil, gas or water services are the most common applications.



### Nominal diameter

40, 50, 60, 75, 100, 150 and 200 mm

### Accuracy

40 mm :  $\pm 3.0$  % of full scale  
50, 60, 75, 100, 150 and 200 mm :  $\pm 1.5$  % of full scale

### Scale range (MPa, kPa, bar)

40 mm : 0 ~ 0.2 to 0 ~ 3.5 MPa  
50 mm : 0 ~ 0.2 to 0 ~ 10 MPa  
60 and 75 mm : -0.1 ~ 0 to 0 ~ 25 MPa  
100 mm (New) : -0.1 ~ 0 to 0 ~ 35 MPa  
100 and 150 mm : -0.1 ~ 0 to 0 ~ 100 MPa  
200 mm : -0.1 ~ 0 to 0 ~ 35 MPa

### 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  $\pm 0.4$  % per 10 °C of full scale



## Standard features

### Pressure connection

Brass

### Element

40 and 50 mm : Brass  
60, 75 and 100 mm (New) :  $\leq 10$  MPa : Brass  
 $> 10$  MPa : 316SS  
100, 150 and 200 mm :  $\leq 7$  MPa : Brass  
 $> 7$  MPa : 316SS  
C type bourdon tube or helical bourdon tube

### Case

Black finished steel  
Black finished aluminium (Diameter 200 mm)

### Cover

Black finished steel

### Window

Glass

### Movement

Brass

### Dial

White aluminium with black graduations

### Pointer

Black painted aluminium alloy

### Process connection

40 mm :  $\frac{1}{8}$ " PT, NPT and PF  
50 mm :  $\frac{1}{4}$ ",  $\frac{1}{8}$ " PT, NPT and PF  
60 mm :  $\frac{1}{4}$ " PT, NPT and PF  
75 and 100 mm (New) :  $\frac{3}{8}$ " PT, NPT and PF  
100, 150 and 200 mm :  $\frac{1}{2}$ ",  $\frac{3}{8}$ " PT, NPT and PF

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## Main order

## Ordering information

### 1. Base model

**P110** General service pressure gauge

### 2. Nominal diameter (mm)

<b>0</b>	40
<b>1</b>	50
<b>2</b>	60
<b>3</b>	75
<b>4</b>	100
<b>6</b>	150
<b>7</b>	200

### 3. Type of mounting

- A** Bottom connection, direct, not available with diameter 200 mm
- B** Bottom connection, surface, case mounting plate, not available with diameter 40 mm
- F** Center back connection, direct, not available with diameter 100 mm (Old) , 150 and 200 mm
- G** Lower back connection, direct, only available with diameter 100 mm (Old) and 150 mm
- H** Center back connection, flush, case center mounting plate, only available with diameter 60, 75 and 100 mm (New)
- J** Center back connection, flush, cover mounting plate, not available with diameter 40, 100(Old), 150 and 200 mm
- M** Lower back connection, flush, case center mounting bracket, only available with diameter 100 mm (Old)
- N** Lower back connection, flush, cover mounting plate, only available with diameter 100(Old) and 150 mm

### 4. Accuracy

- 4** ±1.5 % of full scale, not available with diameter 40 mm
- 6** ±3.0 % of full scale

### 5. Process connection

- B** 1/8"
- C** 1/4"
- D** 3/8", not available with diameter 40, 50 and 60 mm
- E** 1/2", only available with diameter 100, 150 and 200 mm

### 6. Connection type

- B** PF
- C** PT
- D** NPT
- Z** Other (See note 1)

Note 1. Special connection type is available such as BSP and BSPT

### Sample ordering code

1	2	3	4	5	6	7	8	9	10
<b>P110</b>	<b>0</b>	<b>A</b>	<b>4</b>	<b>B</b>	<b>B</b>	<b>H</b>	<b>XXX</b>	<b>1</b>	<b>0</b>

### 7. Unit

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

### 8. Range

**XXX** Refer to pressure unit and range table

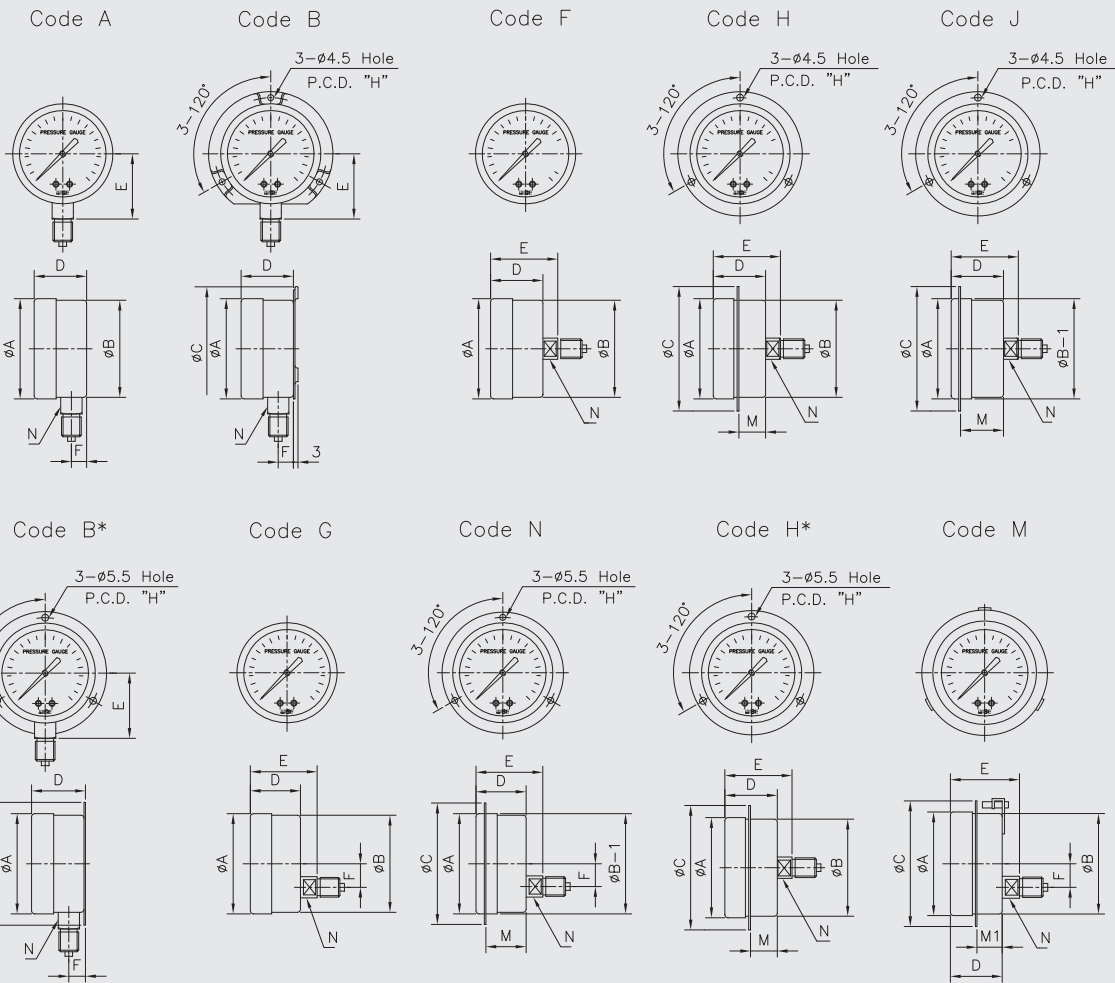
### 9. Dial color

- 1** 2 colors
- 5** 3 colors, available with compound and vacuum gauges

### 10. Option

- 0** None
- 1** Accessories

## P110 : Type of mounting



\*  $\phi B-1$  : Panel cutting size.

Dimensions (mm)

Dial size	Available code	A	B	C	D $\pm 2$	E $\pm 2$	F $\pm 1$	H	M	N
40	A,F	44.3	43.5		24	29	9			12
50	A,B,F	54.5	53.5		27	37	9			14
	J	54.5	54.5	70	27	37	9	62	23.5	14
60	A,B	66	65	82	31.5	42	11	74		14
	F,J	66	70	82	34.5	44.5		74	28	14
	H	66	65	82	34.5	44.5		74	18.8	14
75	A,B	78	77	100	35	52	12.7	90		17
	F,J	78	82	100	35	47		90	29.5	17
	H	78	77	100	35	47		90	19	17
100 (New)	A	106(103.5)	105(102.4)		35(43.5)	64.5(75.5)	12.5(18)			17(22)
	B	106		128	36.5	64	14.5	115		17
	F,J	106	110	128	35.5	47		115	29.2	17
	H*	106	105	128	35.5	47		115	18.7	17
100 (Old)	A	106(103.5)			35(43.5)	64.5(75.5)	12.5(18)			17(22)
	B*	103.5		128	45.5	76	19.7	115		22
	G,N	103.5	107.5	128	41.5	61.5	36	115	36	17
150	M	103.5	102	128	41.5	61.5	36		14	17
	A	153	152		42.5(44)	88(105)	11.5(17)			19(22)
	B	153		178	44	93	13	165		19
200	G,N	153	156	178	42	61.5	36	165	35.5	17
	B*	203		235	49	128	15.5(17.5)	220		19(22)

## Scale ranges

Range and code	Unit and code			40 mm	50 mm	60 mm	75 mm	100 mm (new)	100 mm	150 mm	200 mm
	H : bar	I : MPa	J : kPa								
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	X	X	O	O	O	O	O	X
041	0 ~ 1	0 ~ 0.1	0 ~ 100	X	X	O	O	O	O	O	X
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O	O	O	O	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	X	O	O	O	O	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O	O	O	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O	O	O	O	O	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O	O	O	O	O	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O	O	O	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O	O	O	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O	O	O	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O	O	O	O	O	O
055	0 ~ 50	0 ~ 5	X	O	O	O	O	O	O	O	O
057	0 ~ 70	0 ~ 7	X	X	O	O	O	O	O	O	O
058	0 ~ 100	0 ~ 10	X	X	O	O	O	O	O	O	O
059	0 ~ 150	0 ~ 15	X	X	X	O	O	O	O	O	O
062	0 ~ 250	0 ~ 25	X	X	X	O	O	O	O	O	O
064	0 ~ 350	0 ~ 35	X	X	X	X	X	O	O	O	O
066	0 ~ 500	0 ~ 50	X	X	X	X	X	X	O	O	X
068	0 ~ 700	0 ~ 70	X	X	X	X	X	X	O	O	X
070	0 ~ 1,000	0 ~ 100	X	X	X	X	X	X	O	O	X
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	X	X	O	O	O	O	O	X
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	X	X	O	O	O	O	O	X
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	X	X	O	O	O	O	O	X
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	X	X	O	O	O	O	O	X
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	X	X	O	O	O	O	O	X
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	X	X	O	O	O	O	O	X
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5MPa	X	X	O	O	O	O	O	X
034	-1 ~ 20	-0.1 ~ 2	-100 ~ 2MPa	X	X	O	O	O	O	O	X

O : Available X : Not available