

Duplex pressure gauge

Model : P336 series – Round type

Model : P338 series – Square type

Spec. sheet no. PD03-02

Service intended

P336 and P338 series offer dual air brake system, differential pressure indication and it can be used for any other application where two independent pressures are indicated on a single dial.



Nominal diameter

100 mm (P336)

110 mm (W) x 110 mm (H) (P338)

Accuracy

±1.5% of full scale

Scale range (MPa, kPa, bar)

0 ~ 0.4 to 0 ~ 3.5 MPa (P336)

0 ~ 1 and 0 ~ 1.2 MPa (P338)

Working pressure

Steady : 75% of full scale

Over range protection : 130% of full scale

Working temperature

Ambient : -40 ~ 65°C

Fluid : Max. 200°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



Model : P336



Model : P338

Standard features

Pressure connection

Stainless steel (316SS)

Movement

Brass

Element

Stainless steel (316SS)

Dial

White aluminium with black graduations

Case

Black painted aluminium

Pointer

Black painted aluminium alloy

Cover

Black painted aluminium (P336)

ABS resin (P338)

Window

Safety glass (P336)

Polycarbonate (P338)

Process connection

3/8" PF

WISE®

1. Base model

- P336** Duplex pressure gauge, round type
P338 Duplex pressure gauge, square type

2. Nominal diameter (mm)

- 4** 100, round type
9 110 (W) x 110 (H), square type

3. Type of mounting

- A** Bottom connection, direct, only available with round type
B Bottom connection, surface, case mounting plate, only available with round type
E Bottom connection, surface, case mounting plate, only available with round type
G Lower back connection, direct
M Lower back connection, flush, case center mounting bracket, only available with round type

4. Accuracy

- 4** ±1.5% of full scale

5. Process connection

- D** $\frac{3}{8}$ "

6. Connection type

- B** PF

7. Unit

- H** bar
I MPa
J kPa

8. Range

- 044** 0 ~ 0.4 MPa, not available with square type
045 0 ~ 0.6 MPa, not available with square type
047 0 ~ 1 MPa
049 0 ~ 1.2 MPa, only available with square type
050 0 ~ 1.5 MPa, not available with square type
051 0 ~ 2 MPa, not available with square type
052 0 ~ 2.5 MPa, not available with square type
054 0 ~ 3.5 MPa, not available with square type

9. Dial color

- 2** 2 colors
7 3 colors

10. Option

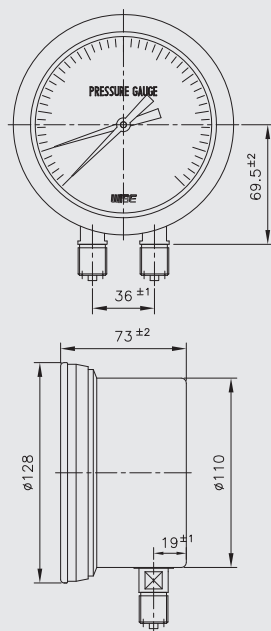
- 0** None
1 Accessories
2 Short connection (Only P338)
4 Orifice
5 Accessories and orifice
6 Short connection and orifice

| | | | | | | | | | |
|------|---|---|---|---|---|---|-----|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| P336 | 4 | A | 4 | D | B | H | 044 | 2 | 0 |

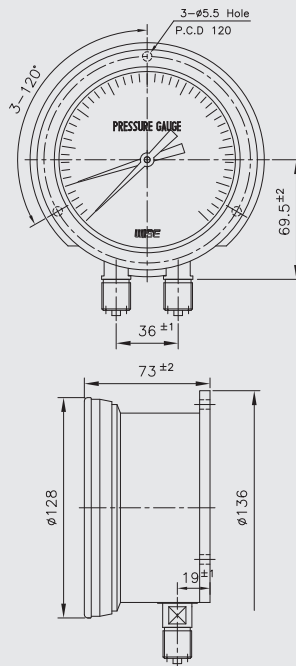
Sample
ordering code

P33X : Type of mounting

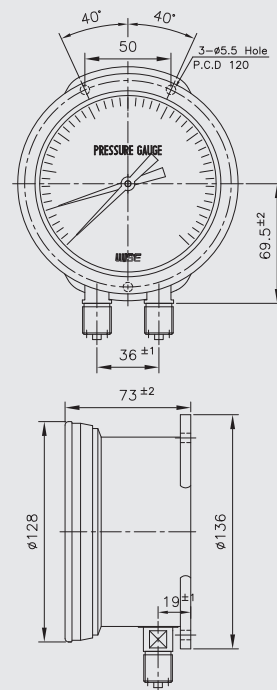
Code A



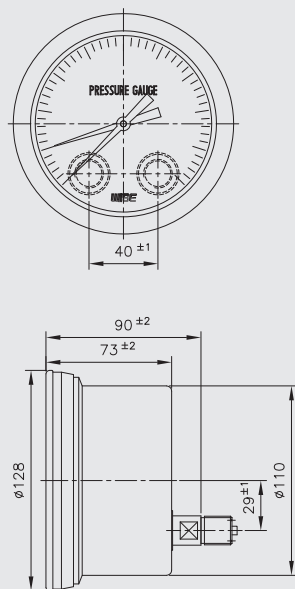
Code B



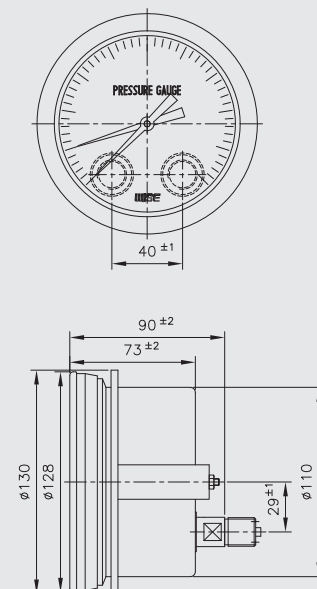
Code E



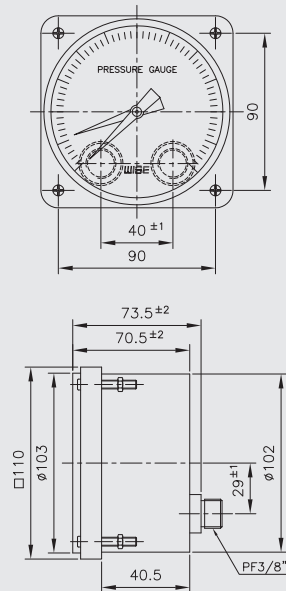
Code G



Code M



Code G*
(P338)



Conversion table

Pressure conversion chart

| psi | atm | kgf/cm ² | inH ₂ O | mmHg | inHg | kPa | bar | mmH ₂ O |
|----------|-----------|---------------------|--------------------|---------|---------|---------|----------|--------------------|
| 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 | 10350.0936 |
| 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 | 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 | 3,785 | 0.003785 | 3.785 | 0.8327 |
| 7.481 | 1 | 1,728 | 0.1781 | 28,320 | 0.02832 | 28.32 | 6.229 |
| 0.004329 | 0.000578 | 1 | 0.000103 | 16.39 | 0.000016 | 0.01639 | 0.003605 |
| 42 | 5.615 | 9,702 | 1 | 159,000 | 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 | 61,023 | 6.2906 | 1,000,000 | 1 | 1,000 | 220.1 |
| 0.264 | 0.0353 | 61.03 | 0.0629 | 1,000 | 0.001 | 1 | 0.22 |
| 1.201 | 0.1606 | 277.4 | 0.0286 | 4,546 | 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 | 1,000 | 0.2642 | 0.009839 | 0.001 | 0.001102 |
| 0.002205 | 0.03527 | 0.001 | 1 | 0.00264 | 0.000000 | 0.000001 | 0.000001 |
| 8.345 | 133.5 | 3.785 | 3,785 | 1 | 0.003726 | 0.003786 | 0.004171 |
| 2,240 | 35,840 | 1016.4 | 1,016,363 | 268.352 | 1 | 1.016 | 1.12 |
| 2,204.6 | 35,273 | 1,000 | 1,000,000 | 264.11 | 0.9842 | 1 | 1.1023 |
| 2,000 | 32,000 | 907.03 | 909,090.9 | 239.7 | 0.892857 | 0.907194 | 1 |

Density conversion chart

| lb / ft ³ | gm / cm ² | ka / m ³ | lb / in ³ |
|----------------------|----------------------|---------------------|----------------------|
| 1 | 0.016018 | 16.0184 | 0.000578 |
| 62.43 | 1 | 1,000 | 0.03613 |
| 0.06243 | 0.001 | 1 | 0.000036 |
| 1728 | 27.68 | 27,679.8 | 1 |