

DEAD WEIGHT TESTER MODEL : P912 & P913 SERIES

WISE[®]

SERVICE INTENDED

P912 & P913 Series are designed for the gauge pressure calibration
The operating range of these series are available upto 500kgf/cm²
P912 & P913 series proceed setting, testing and
repairing pressure measurement.

DIMENSIONS

Base 400mm(W) × 178mm(H) × 280mm(D)
excluding hand wheel

COLOR

Black

RESERVOIR

These series have a centrally isolated mounting valve
and a transparent cover which can be
sealed in order that tester is moved
without oil leakage.

SCREW PUMP

The use of a large diameter ram eliminates
the need for a priming pump.

ACCURACY

0.04%

PISTON CYLINDER UNIT

The Tester is fitted with an oil reservoir,
This is linked to the piston cylinder unit.
A stop valve is provided to prevent excessive
pressure driving the piston out of the
cylinder.



ORDERING INFORMATION

| Dead Weight Tester | | | | |
|---|----------------|-------------------------|------------------------|------|
| Model No. | | P912 | P913 | |
| Range | Maximum | 300kgf/cm ² | 500kgf/cm ² | |
| Range | Minimum | 2.0kgf/cm ² | 2.0kgf/cm ² | |
| Minimum unit pressure | | 2.0kgf/cm ² | 2.0kgf/cm ² | |
| Area of ram | | 1/8cm ² | 1/8cm ² | |
| Diameter of ram | | 3.9894mm | 3.9894mm | |
| Dead-weight Corresponds to (kgf/cm ²) | Ram | 2.0kgf/cm ² | 1PCS | 1PCS |
| | | | | |
| | Dead Weight | 1.0kgf/cm ² | 1PCS | 1PCS |
| | | 2.0kgf/cm ² | 2PCS | 2PCS |
| | | 3.0kgf/cm ² | 1PCS | 1PCS |
| | | 5.0kgf/cm ² | 1PCS | 1PCS |
| | | 10.0kgf/cm ² | 1PCS | 1PCS |
| | | 20.0kgf/cm ² | 2PCS | 2PCS |
| | | 50.0kgf/cm ² | 5PCS | 9PCS |
| Total | | 315kgf/cm ² | 515kgf/cm ² | |
| Tester | Weight | 118kg | 118kg | |
| | Box Weight | 9.5kg | 9.5kg | |
| Ram | Weight | 39.375kg | 64.375kg | |
| | Box Weight | 4.5kg | 5.5kg | |

SPARE PARTS & TOOL

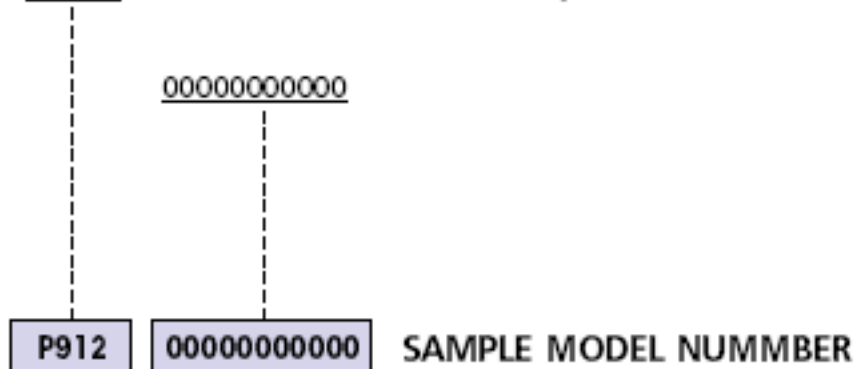
| Standard Accessories | Q'ty(pcs) |
|----------------------|-----------|
| Union 1/2' | 2 |
| Union 3/8' | 1 |
| Union 1/4' | 1 |
| 300mm Wrench | 1 |
| 250mm Wrench | 1 |
| L Type union 1/2' | 1 |
| Packing for Union | 10 |
| Packing for Piston | 2 |
| Hammer | 1 |
| Pointer Remover | 1 |
| Oil Drum | 1 |

ORDERING INFORMATION

BASE MODEL

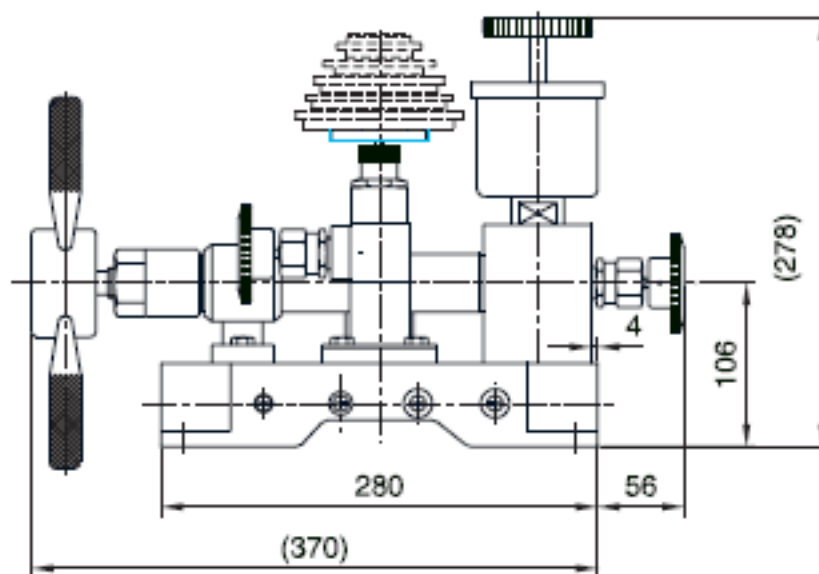
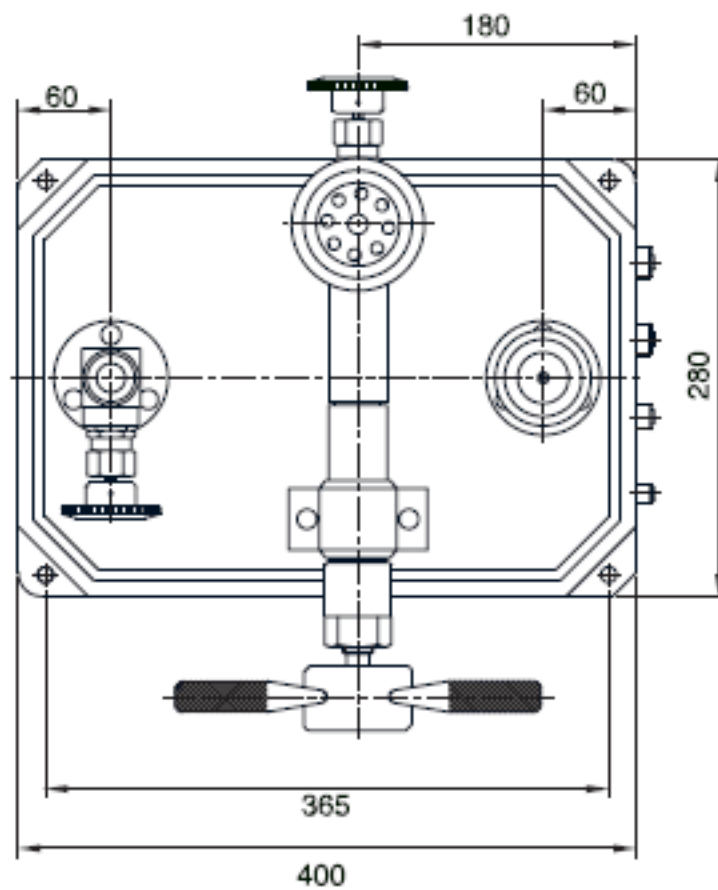
P912 : DEAD WEIGHT TESTER(CALIBRATION RANGE : 300kgf/cm²)

P913 : DEAD WEIGHT TESTER(CALIBRATION RANGE : 500kgf/cm²)



P912, 913 : TYPE OF MOUNTING

CODE P912,P913



Dimensions (mm)

| AVAILABLE CODE | RANGE (kgf/cm ²) | INCREMENT (kgf/cm ²) | PISTON AREA (cm ²) |
|----------------|---------------------------------|-------------------------------------|-----------------------------------|
| P912 | 2 - 300 | 2 | 1/8 |
| P913 | 2 - 500 | 2 | 1/8 |

CONVERSION TABLE

| PRESSURE CONVERSION CHART | | | | | | | | |
|---------------------------|-----------|--------------------|---------------------|---------|---------|---------|----------|--------------------|
| PSI | ATM | kg/cm ² | 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/ft ³ | gm/cm ³ | kg/m ³ | lb/in ³ |
| 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 |