

PRECISION DEADWEIGHT TESTERS

0.1% ACCURACY; 15 to 10,000 psi

DWT1305 Series



Optional*

- ✓ Easy-to-Use 2-Stage Hydraulic Pump
- ✓ 2 Interchangeable Piston/Cylinder Assemblies
- ✓ Vernier Screw Adjustment for Pressure Settings
- ✓ Portable—Rugged Carrying Case Provided

Each Unit Includes

- ✓ Hydraulic Pump
- ✓ Weight Set
- ✓ 2 Piston/Cylinder Assemblies
- ✓ 3 Wrenches
- ✓ Spare O-Rings
- ✓ Piping and Fittings
- ✓ Rugged Carrying Case
- ✓ Operator's Manual
- ✓ Optional NIST-Traceable Calibration



DWT1305D-30, shown smaller than actual size, comes complete as shown.

DWT1305 deadweight testers are dual-range, precision-built hydraulic instruments for testing, setting, calibrating, or repairing pressure-measuring devices. Each instrument is self-contained and comes with tools and metal carrying case.

With the optional “-CAL-3” calibration, the DWT1305 can be a primary standard with 0.1% accuracy of the pressure produced. Each unit is adjusted for standard gravity conditions, all weights are labeled, and an NIST-traceable certification is supplied.

For optimal accuracy, deviation from standard gravity conditions must be applied to the readings.

Each unit comes with 2 interchangeable piston and cylinder assemblies. One is for

low pressure (below 2000 psi/ 14,000 kPa); the other is for high pressure (through 10,000 psi/ 70,000 kPa). The same weights are used with both pistons.

SPECIFICATIONS

Accuracy: 0.1% of produced pressure
Operating Pressure: 15 to 10,000 psi (100 to 70,000 kPa)

Body Material: Aluminum alloy
Piston and Cylinder Material: Stainless steel

Weights: Non-magnetic die-cast zinc alloy, NBS traceable

Operating Fluid: SAE 20 automotive or machine oil

“O” Rings: Standard Buna-N

Reservoir Volume: Approximately 0.7 liter (1.5 pints)

To Order Visit omega.com/dwt1305 for Pricing and Details

| MODEL NO. | PISTON ASSEMBLY PRESSURE RANGE | | PISTON VALUE | | NUMBER OF WEIGHTS BY VALUE | | | | | | |
|---------------------|--------------------------------|-----------|--------------|-----|----------------------------|-----|------|------|------|-------|----|
| | | | | | NET WT. | | | | | | |
| | psi TYPE | LOW | HIGH | LOW | HIGH | L-5 | L-10 | L-20 | L-40 | L-100 | lb |
| DWT1305D-10 | 15/200 | 75/1000 | 5 | 25 | 1 | 3 | 2 | 3 | — | 60 | 27 |
| DWT1305D-20 | 15/400 | 75/2000 | 5 | 25 | 1 | 3 | 2 | 3 | 2 | 70 | 32 |
| DWT1305D-30 | 15/600 | 75/3000 | 5 | 25 | 1 | 3 | 2 | 3 | 4 | 85 | 39 |
| DWT1305D-50 | 15/1000 | 75/5000 | 5 | 25 | 1 | 3 | 2 | 3 | 8 | 105 | 48 |
| DWT1305D-100 | 15/2000 | 75/10,000 | 5 | 25 | 1 | 3 | 2 | 3 | 18 | 175 | 80 |
| DWT1305D-10-CAL-3* | 15/200 | 75/1000 | 5 | 25 | 1 | 3 | 2 | 3 | — | 60 | 27 |
| DWT1305D-20-CAL-3* | 15/400 | 75/2000 | 5 | 25 | 1 | 3 | 2 | 3 | 2 | 70 | 32 |
| DWT1305D-30-CAL-3* | 15/600 | 75/3000 | 5 | 25 | 1 | 3 | 2 | 3 | 4 | 85 | 39 |
| DWT1305D-50-CAL-3* | 15/1000 | 75/5000 | 5 | 25 | 1 | 3 | 2 | 3 | 8 | 105 | 48 |
| DWT1305D-100-CAL-3* | 15/2000 | 75/10,000 | 5 | 25 | 1 | 3 | 2 | 3 | 18 | 175 | 80 |

Comes complete with pump, weights, piston assemblies (2), o-rings, piping/fittings, wrenches, case and operator's manual.

* Units with “-CAL-3” suffix feature NIST traceable calibration as a primary standard.

Ordering Examples: DWT1305D-100-CAL-3, tester with 15 to 10,000 psi range with NIST-traceable calibration.

DWT1305D-50, tester with 15 to 5000 psi range.