

The YWT series of basic piston pressure gauges Dead weight tester can measure pressures up to 100MPa, and are mainly used in metrological verification laboratories to verify pressure gauges such as digital pressure gauges, pressure sensors, pressure transmitters, precision pressure gauges and ordinary pressure gauges. It is suitable for measurement departments of high-level measurement institutions, pressure instruments, instrument manufacturers and modern factories.

Measuring range: 0.04~0.6MPa, 0.5~25MPa, 0.1~6MPa, 1~60MPa, 2~100MPa

Accuracy levels: 0.05, 0.02, 0.01, 0.005

With pre-compression function, easy to pressurize under high pressure;

Both the piston barrel and the piston cylinder are made of tungsten carbide material with high strength, high hardness, and low temperature linear expansion coefficient after careful grinding, wide working environment temperature, stable performance $20 \pm 5^{\circ}\text{C}$;

Oil medium lubrication, high piston sensitivity;

Super hard material, the piston has a long service life, and the pressure deformation is negligible;

Manufactured according to the user's local acceleration of gravity;

Each weight is equipped with an adjustment cavity, which is convenient for periodic inspection and adjustment;

12mm cast aluminum machine, strong and stable;

All stainless steel pipe joints are well sealed and there is no aging problem of plastic pipes;

Use quick couplings, easy to operate, and easy to tighten without a wrench;

The working position of the piston is monitored by a displacement sensor, the piston up and down stroke is 0~3mm, and the instrument display has the advantages of sensitivity, eye-catching, and accuracy;

Grade 0.05 is a carbon steel weight, and grade 0.02 or above is a non-magnetic stainless steel weight;

Verification standard: "JJG59-2007 Verification Regulations for Piston Pressure Gauges"

"JJG99-2006 National Metrological Verification Regulations for Weights"

Model	YWT-006	YWT-060	YWT-0250	YWT-600	YWT-100
Range	0.04~0.6	0.1~6	0.5~25	1-60	2-100MPa
Measurement lower limit (MPa)	0.04	0.1	0.5	1	2
Nominal area of piston (cm ²)	1	0.5	0.2	0.1	0.1
Piston rod and cylinder material	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide	Tungsten carbide
Pressure generated by weight (MPa)	0.01MPa × 6pcs 0.05MPa × 10pcs	0.1MPa × 4pcs 0.5MPa × 11pcs	0.5MPa × 4pcs 2.5MPa × 9pcs	1MPa × 4pcs 5MPa × 11pcs	10MPa × 9pcs 5MPa × 1pcs 2MPa × 1pcs 1MPa × 2pcs
Working	Mixed oil of transformer oil and		Sebacate		

fluid	kerosene	
-------	----------	--