Hydraulic Dead Weight Tester

Model: CW series:



Specification:

Model (optional):CW-6T CW-60T CW-250T CW-600T CW-1000T CW-1600T

Measuring range (bar): (0.4-6), (1-60), (5-250), (10-600), (20-1000), (20-1600)

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Accuracy: 0.005%; 0.01%; 0.02%; 0.05%

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Products description:

Working Principle:

Mechanical dead-weight testers or primary standards are the most accurate reference

instruments for pressure. Their functional principle is based on the physical principle

of pressure = force/area. Mass pieces placed on the top of a piston-cylinder system are

the source of a precisely defined force. By producing a certain (counter) pressure

inside the pressure balance an equilibrium is achieved: the mass pieces, including the

free-running piston of the piston-cylinder system, are floating, which will lead to a

very accurate pressure at the test port.

Applications:

1. Primary standard for defining the pressure scale in a range of up to 1600bar.

2. Pressure reference for factory and calibration lab for the testing, adjustment and

calibration of pressure measuring instruments.

Materials:

Piston system (the rod and cylinder): tungsten carbide

Weight (Mass): Non-magnetic stainless steel (level 0.005, 0.01, 0.02);

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Carbon steel (level 0.05)

Base: stainless steel

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Working medium:

<25MPa: Mixed oil (transformer oil and kerosene oil)

≥25MPa: sebacate oil

Features:

- Accord with JJG59-2007<<Piston-type pressure gauge>>;
- Able to test two gauges synchronously; Applied the fast pressure plug; no oil leakage;
- Abrasive resistance is improved because of the high-tensile and high-hardness wolfram carbide material:
- The piston rod is anti-breakage structure.
- The piston system configures Eddy current displacement sensor, adopts integrated double row LCD digital cursor display. Therefore, piston position can be observed clearly at any time.
- With pre-pressure pump, it can fill oil to large capacity gauge, several gauges or long distance calibration pipeline system.
- The tester junction with stop valve and piston stop valve, so it can be used as independent pressure source, when piston stop valve is closed.

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