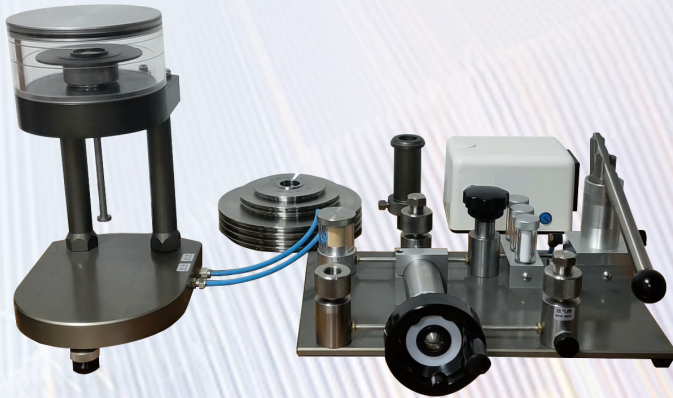


MODEL BL506 VACUUM PRESSURE DEADWEIGHT TESTER



With high precision accuracy, the BL506 vacuum pressure deadweight tester have dual vacuum and pressure modes. Pressure and vacuum application can be operated by hand pump or external gas supply. To guarantee an excellent metrology-logic characteristics, all pistons and cylinders are made of extreme hardness tungsten carbide, the pressure distortion (expansion) coefficient is negligible. The low friction coefficient provides minutes of turning with just a little swing of the masses.

FEATURES

- 0.005%, 0.01%, 0.02%, 0.05% accuracy
- Accuracy of low limit range keeps same as upper limit range. (Traditional deadweight tester is only 10% of maximum range).
- Pressure mode and vacuum mode can be switchable by PV selector
- 99.99% vacuum with electric pump
- The piston and cylinder is tungsten carbide, which provides stability, durability, and low thermal coefficients and distortion.
- External supply port for connection to the gas supply source or electric vacuum pump
- Assembled two-stages air purifier on a molecule filter level
- High quality needle valves provide optimum control and sealing
- Build-in liquid gas separator

APPLICATION

- Primary vacuum standard in lab
- Reference vacuum measure on workshop

SPECIFICATION

- Accuracy: 0.05%, 0.02%, 0.01%, 0.005%
- Piston and cylinder material: Tungsten carbide
- Mass material: 304 stainless steel
- Tester base and pump material: Aluminium alloy
- Seal material: Buna-N, FTM PTFE, Cu Alloy
- Medium: Dry and clean air, or nitrogen
- Pressure units available: MPa, bar, psi (optional)
- Pressure connector: Metric, (NPT and BSP is optional)
- Gravity: Standard 9.80665 m/s², or customize local gravity.
- Tester base dimension: 50 cm (H) x 65 cm (L) x 50 cm (D)
- Pump dimension: 23 cm (H) x 45 cm (L) x 38 cm (D)
- Tester weight: Appro.10kg / Pump weight: Appro.15kg

PRESSURE SELECTABLE SHEET

Part Num.	Pressure	Accuracy	Area	Mass Set
KYQZ100	(-0.1~0.1) MPa	0.05, 0.02, 0.01, 0.005	10 cm ²	10kg+10kg
KYQZ160	(-0.1~0.25)MPa	0.05, 0.02, 0.01, 0.005	5 cm ²	5kg+8kg
KYQZ250	(-0.1~0.25)MPa	0.05, 0.02, 0.01, 0.005	5 cm ²	5kg+12.5kg
KYQZ600	(-0.1~0.6) MPa	0.05, 0.02, 0.01, 0.005	2 cm ²	5kg+30kg
KYQZ1M	(-0.1~1.0) MPa	0.05, 0.02, 0.01, 0.005	2 cm ²	5kg+50kg

SCOPE OF DELIVERY

- BL506 Vacuum pressure deadweight tester base
- Piston cylinder unit
- 304 stainless steel mass set
- Manual operated pressure/vacuum pump
- Bell jar
- Adapter kits (includes flexible connection hose)
- Transit case

OPTIONAL ACCESSORIES AND SERVICES

- ISO17025 calibration certificate (P/N:9000-506)
- Electric vacuum pump, to -0.099MPa (P/N: 1542)
- Gas bottle (buy locally)
- Molecule filter for input air (P/N: 1554)
- Liquid-gas filter for return line (P/N: 1555)
- Liquid-gas separator filter 10MPa (P/N: 1556)
- Trim mass set (P/N: F2-50GSET-316)

HOW TO ORDER

- BL506 / part number / accuracy / gravity value