

BL504 LIQUID COLUMN PRESSURE STANDARD



SPECIFICATION

- Pressure range: -0.1MPa to 0.7MPa
- Accuracy: $\pm 0.005\%$ rd + 1Pa
- Piston material: Tungsten Carbide
- Cylinder material: Tungsten Carbide
- Mass material: 304 stainless steel
- Base material: Aluminum alloy / stainless steel
- Transform medium: Mineral oil
- Column liquid: Mercury, silicon oil
- Mass carrier weight: 1kg
- Mass quantities: 0.1kg x 1pc, 0.2kg x 2pc, 0.5kg x 1pc, 1kg x 6pcs,
- Gravity: Custom to local or standard 9.80665 m/s²
- Pressure connector: Metric
- Power supply: 100-240VAC
- Base dimension (W*D*H): 480 x 400 x 680 mm
- Column Height: 800 mm
- Weight: 26 kg for base, 6 kg for column

SCOPE OF DELIVERY

- BL504 Liquid column pressure standard base
- Piston cylinder unit
- Mass carrier / bell
- 304 stainless steel mass set
- Adapter kits (1/4" NPT, 1/2" NPT, G1/4, G1/2)
- User manual
- Transit case

OPTIONAL ACCESSORIES AND SERVICES

- ISO17025 calibration certificate (P/N:9000-504)

ORDERING MODEL NUMBER

- BL504-YY0.7-05

The BL504 liquid column pressure standard is a piston pressure vacuum gauge with a balanced liquid column. The working principle is based on that the pressure generated by the liquid column in the reservoir and pipeline is balanced with the initial pressure of the piston. Therefore, when measuring pressure, it can measure the pressure from zero. The BL504 is ideal for vacuum and low pressure calibration in primary metrology labs.

FEATURES

- Ranges from -0.1MPa to 0.7MPa
- $\pm 0.005\%$ rd + 1Pa accuracy
- Motor drives the weight rotating.
- Front window shows piston position
- Built-in 0.01°C reading thermometer

APPLICATION

- Primary pressure standard in national or regional metrology lab
- High precision low pressure measurement in calibration lab