

Pressure Calibration Bench

CAPABILITY SHEET · REFERENCE · METHOD · RECORD · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	A gauge is only as honest as the last thing it was compared with. A dead-weight tester builds the pressure from mass, area and gravity.
WHY IT MATTERS	If the bench is wrong, every reading downstream is wrong by the same amount, and nobody can tell.

THE BENCH

REFERENCE	A pressure balance with a calibrated mass set, or a calibrated reference sensor for shop-floor work.
PRESSURE	A hand pump, screw press or intensifier, with a manifold, valves and a vent, and test ports that mount each instrument upright.
RECORD	Data acquisition that logs rising and falling readings, as-found and as-left, one record for each instrument.
PROCEDURE	A written sequence, the same for every instrument, with the working temperature steady and noted.

THE METHOD

ORDER	Set up, preload, rise, fall, compare and record. The falling leg and the as-found reading are the two steps a quick check skips.
LIMITS	Ranges, accuracy class and medium are set against the customer's own instruments at design review.

CONFIGURATIONS

PORTABLE CALIBRATOR	A hand-pumped comparator with a reference sensor, carried to the instrument.
DEAD-WEIGHT BENCH	A pressure balance with calibrated masses, a screw press and a manifold, for the laboratory reference.
TROLLEY SYSTEM	A wheeled system carrying several ranges and references, so one cart serves a whole site.

STANDARDS & SCOPE

STANDARDS	EURAMET Calibration Guide No. 3 for pressure balances; DKD-R 6-1 and EN 837 for pressure gauges; ISO/IEC 17025 for calibration laboratories.
SCOPE BOUNDARY	This bench compares an instrument against a pressure reference. It is not a component proof or burst bench, not a pressure source, and not a torque calibrator.
STATUS	Neometrix has quoted against successive pressure calibrator and dead-weight tester requirements, and no delivered pressure calibration bench is claimed.

DEFENCE PROGRAMMES DESK

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Descriptions define the equipment class Neometrix engineers to order and are not a quotation. Instruments, ranges, accuracy class and medium are established against the customer's own requirements at design review. No laboratory accreditation is claimed. ISO 9001 / ISO 14001. © Neometrix Defence Limited.