



tinsley
PRECISION INSTRUMENTS

VACUUM DEAD WEIGHT TESTERS

Calibrate with precision!

Tinsley vacuum operated deadweight testers are the basic primary standards for pressure calibration. The principle of operation is as per the international guidelines and are world-wide acceptable.

Tinsley vacuum operated dead weight testers provide an unmatched performance with the best stability, repeatability, accuracy and are ideal for calibrating pressure instruments for the vacuum range.

Model 58-DTPN021 is a pneumatic type deadweight tester of unique design and is worldwide renowned as a highly reliable, accurate, and user friendly system for calibration. The design also allows calibration for low pressure instrumentation apart from the vacuum.

Technical Specifications :

Designed for	: Vacuum and low pressure
Vacuum Range	: (-)50 millibar to (-)1000 millibar
Pressure Range	: (+)50 millibar to (+)2500 millibar
Nominal piston area	: 1 cm ²
Carrier and Piston	: Nominal mass 0.05 Kg Pressure 0.05 bar

Supplied Weights - standard :

Nominal Mass	0.1, 0.2, 0.5, 0.1, 0.2, 0.05 Kg
Vacuum / Pressure	(-)0.1, (-)0.2, (+)0.5, (+)0.1, (+)0.2, (+)0.05 bar
Qty.	1, 4, 3, 2, 3, 2 pcs.

Accuracy	: 0.02% in standard version 0.015% in HA version and 0.005% in EHA version
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Operating temperature	: 20°±5°C
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Temperature coefficient	: 0.000017/°C
Gravity	: Calibration can be performed at local gravity (specify your local gravity, in order)
Operating medium used	: Clean compressed air or nitrogen.
Pressure port	: M 20 x 1.5
Features	: Compact, light in weight, light in pumping, fine adjustment, lower start pressure and vacuum, higher performance, high quality weight set.

Ordering code

Model 58-DTPN-021 : Vacuum operated dead weight tester

Standard accuracy 0.02% shall be supplied.

Add suffix HA for 0.015% accuracy requirement or

Add suffix EHA for 0.005% accuracy requirement

Pressure values and engineering units of mass sets are made to customer design / requirement (bar, kg per cm sq., psi, MPa etc.)

Scope of delivery

All vacuum operated deadweight testers are delivered fully operational with stainless steel mass sets, carry case for dead weight tester, carry case for mass sets, tools, O-rings, spirit level, spare seals, keys, set of connectors, operating manual, traceable calibration certificate.

Optional : Below options are available separately, if ordered :

- Stainless steel mass sets of other values (user defined) in carry case
- Stainless steel fraction weight sets in carry case
- Program for temperature and gravity corrections
- Calibration Software