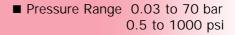




Absolute and Gauge Pressure Deadweight Tester



- Pressure ranges are both Absolute and Gauge
- Accuracy from 0.005% of reading
- Manufactured to local gravity (on request)
 - Integral pressure control system
 - Traceable to International Standards



Utilising primary pressure measurement, with accurately calibrated weight masses loaded onto a gas lubricated piston. The weights balance the upward force created by the pressure within the system.

The Model 6100 instrument base controls the system pressure with inlet and outlet needle valves, and a variable volume adjuster.

A test port (with adaptors) is provided for mounting the instrument under test, and a variable speed motor drive system rotates the piston and weights.

The operator simply has to connect the necessary pressure/vacuum sources and a sensor to measure the chamber reference pressure. There is also a facility to fit an optional temperature probe.

Pressurements model 6100 operates over an extremely wide pressure range.

Three standard ranges (piston and weight set) are available to fit the instrument base:-

Low	(L)	Range	30	to	2000	mbar	0.5	to	30	psi
Mid	(M)	Range	0.25	to	20	bar	3	to	300	psi
High	(H)	Range	20	to	70	bar	300	to	1000	psi

Specifications

Accuracy:

Pressure range absolute & gauge

Gravity:

Standard resolution: (Weight Increment)

Optional extra resolution (Fractional weights aluminium) Smaller resolutions available on request

Sensitivity Repeatability Reproducibility Piston drop rate High range Piston material

Cylinder material Weight material

Specific gravity of weights Reference temperature Temperature range

Pressure medium Test port adaptors Connection ports

Chamber evacuation port Chamber reference port Instrument pressure rated

Power requirement Tester dimensions

Equipment weight (Base and chamber only) Low range piston & weights Mid range piston & weights High range piston & weights 0.015%, 0.01%, 0.005% of reading traceable to NPL U.K. and NIST U.S.A.

30 mbar to 70 bar/0.5 to 1000 psi

As requested on order, if unspecified then 980.665 cm/s2

Low Range 10 mbar, 0.01 kgf/cm², 0.1 psi, 1 kPa Mid Range 0.05 bar, 0.05 kgf/cm², 1 psi, 5 kPa High Range 0.2 bar, 0.2 kgf.cm²,, 1 psi, 20 kPa Low Range 5 mbar, 0.005 kgf/cm², 0.05 psi, 0.5 kPa Mid Range 0.01 bar, 0.01 kgf/cm², 0.1 psi, 1 kPa High Range 0.05 bar, 0.05 kgf.cm², 0.5 psi, 5 kPa

To 1 PPM⁶ To 3 PPM* To 6 PPM/Year* *at full scale 4mm per minute, maximum 6mm per minute, maximum

Ceramic (Mid & High) Tungsten carbide

Hardened Martensitic Steel, Tungsten carbide (High)

Series 3 non-magnetic austenitic stainless steel

20°C

(Operating) 12 to 28°C (Storage) -40 to 70°C

Clean dry gas, nitrogen or similar $^{1}/_{8}$ ", $^{1}/_{4}$ ", $^{3}/_{8}$ ", $^{1}/_{2}$ " BSP or NPT Female $^{1}/_{4}$ " BSP or NPT Female

NW25 NW10

700 bar/10000 psi

AC 220/240V or AC 110/120V, 50/60 HZ Lid closed 47 x 32 x 20 cm L x D x H Chamber fitted 47 x 32 x 38 cm L x D x H

12 kg 6 kg 18 kg 15 kg

A complete range of industrial and differential Deadweight Testers are available

pressurements

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