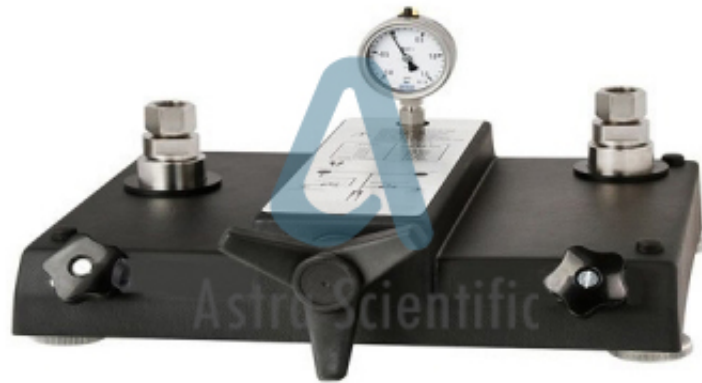


Product Name :
Astra Scientific Precision Pressure Gauge Calibrator

Product Code :
Fluid Mechanics Lab0032



Description :

Astra Scientific Precision Pressure Gauge Calibrator

Technical Specification :

DESCRIPTION:

The designed equipment is self-contained and portable, so it may be used in lecture theatre demonstrations or as a master calibrator for the laboratory.

Deadweight testers are the basic primary standard used worldwide for the accurate calibration of pressure gauges, pressure transducers etc. The instrument combines a low and high-pressure range provided by two pistons of different effective area.

Calibration is accurate to within $\pm 0.025\%$ of reading. A laboratory calibration certificate is supplied for each piston together with a traceable certificate of overall accuracy.

The pressure in the system is produced by means of a capstan-operated hydraulic ram, balanced by dead weight acting upon a piston of known area. Oil is used as the hydraulic fluid.

The pressure developed is applied to the gauge that is to be calibrated.

A spirit level and adjustable feet are provided to enable the operator to level the instrument. A flotation indicator mounted on the top plate removes the guesswork when floating the piston.

The instrument is supplied complete with necessary weights and a fitted carrying case. 1", 1/4", 1/2" BSP and NPT female adaptors are included together with spare seals and a quantity of oil.

FEATURES:

- The direct measurement of pressure ($p=F/A$)
- Masses added are proportional to the target pressure
- Calibration of pressure gauges by deadweight method to an accuracy better than 0.025% of reading
- Dual pistons enable calibration over a wide range of pressures
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SPECIFICATIONS:

- Portable, self-contained deadweight precision pressure gauge calibrator
- Calibration gauges with 1-1,200 bar range to $\pm 0.025\%$ of reading
- Supplied complete with laboratory calibration certificate
- Includes carrying case and weights
- Minimum standard weight increment is 0.05 bar



Astra Scientific

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