

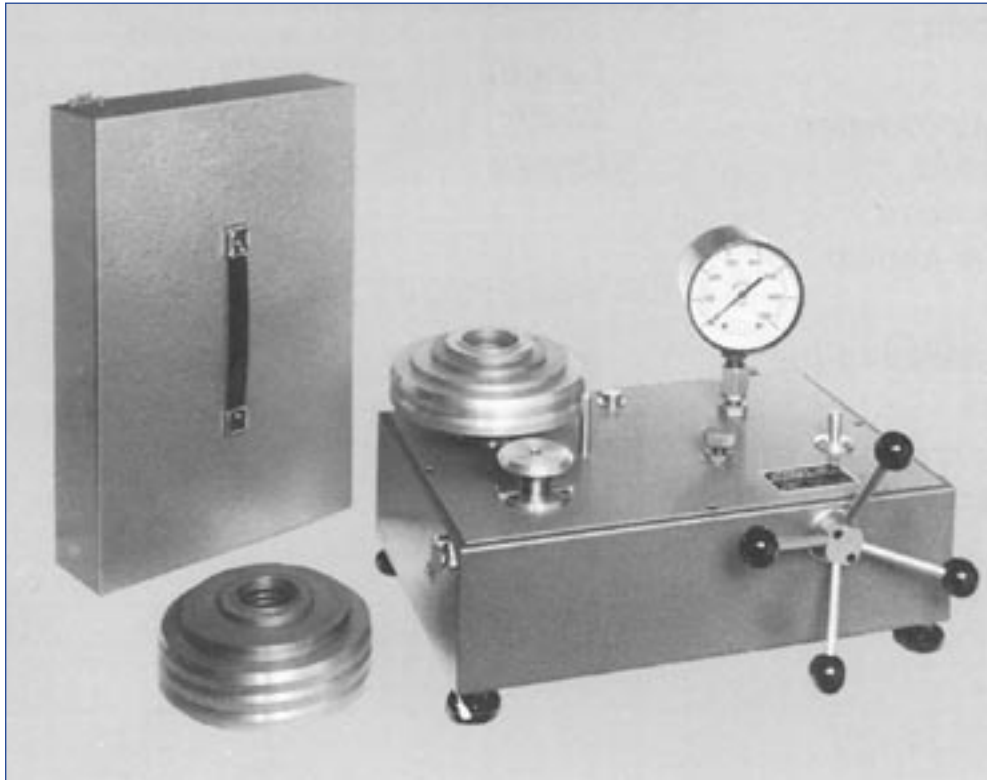


armfield

PRECISION PRESSURE GAUGE CALIBRATOR

F4

issue 12

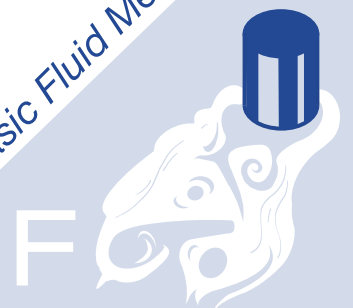


This instrument allows pressure gauges to be accurately calibrated within the range 1 - 300 bar.

TEST CAPABILITIES

- ▶ *Calibration of pressure gauges by dead weight method to an accuracy better than 0.015% of reading*
- ▶ *Dual pistons allow calibration over a wide range of pressures*

Basic Fluid Mechanics



DESCRIPTION

Deadweight testers are the basic primary standard used world-wide for the accurate calibration of pressure gauges, pressure transducers etc.

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

The instrument combines a low and high pressure range provided by two pistons of different effective area.

Calibration is accurate to within $\pm 0.015\%$ 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 a 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 guess work when floating the piston.

The instrument is supplied complete with necessary weights and a fitted carrying case. $\frac{1}{8}$ " , $\frac{1}{4}$ " , $\frac{3}{8}$ " , $\frac{1}{2}$ " BSP and NPT female adaptors are included together with spare seals and a quantity of oil.

(Gauge not supplied)

ORDERING SPECIFICATION

- *Portable, self-contained dead weight precision pressure gauge calibrator.*
- *Calibrates gauges 1-300 bar range to $\pm 0.015\%$ of reading.*
- *Supplied complete with laboratory calibration certificate.*
- *Includes carrying carrying case and weights.*
- *Minimum standard weight increment is 0.05 bar.*

OVERALL DIMENSIONS

Length:	430mm
Width:	280mm
Depth:	220mm

SHIPPING SPECIFICATION

Volume:	0.5m ³
Gross weight:	85kg

Armfield Limited

Bridge House, West Street, Ringwood,
Hampshire BH24 1DY, England

Tel: +44 (0)1425 478781 Fax: +44 (0)1425 470916

E mail: sales@armfield.co.uk

URL: <http://www.armfield.co.uk>

USA Office:

Armfield Inc.

436 West Commodore Blvd (#2)
Jackson NJ 08527

Tel: (732) 928-3332 Fax: (732) 928-3542

E mail: info@armfieldinc.com