

Thermodynamics-1 Lab

Undergraduate Course-Fall 2015

Calibration of Bourdon Pressure Gauge using Dead Weight Tester

Objectives:

1. To observe the measurement of pressure using externally applied load
2. To calibrate bourdon pressure gauge

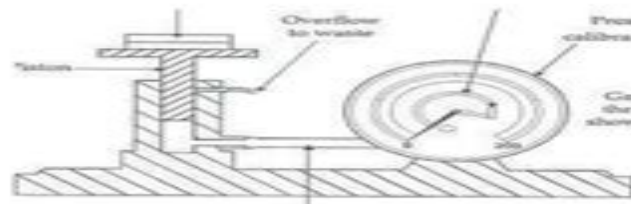
Apparatus:

Dead weight apparatus, weights

Figure:

Dead Weight Tester.

Diagram No. 1



Apparatus Description:

The dead weight tester apparatus consists of a chamber which is filled with oil free from impurities and a piston-cylinder combination is fitted above the chamber as shown in diagram.

The top portion of the piston is attached with a platform to carry weights. A plunger with a handle has been provided to vary the pressure of oil in the chamber. The pressure gauge to be tested is fitted on an appropriate plate.

Lab Manual Of Thermodynamics

Ralph Clement Bryant



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