

Calibration of a Pressure Gage

Purpose

The objective of this experiment is to verify the accuracy of a pressure gage with a dead weight gage tester.

Apparatus

Dead Weight pressure gage
Weights (masses)
Scale

The figure below is a schematic of a dead weight tester. There are three primary components of this device: a fluid that transmits the pressure, a weight and piston used to apply the pressure, and an attachment point for the gage to be calibrated. The weight applies a force over a precisely known area, thereby applying a known pressure to the fluid. The fluid is water that is essentially incompressible. Since a dead weight tester is relatively compact the effect of elevation changes on the pressure are negligible. The pressure at the piston face, therefore, is equal to the pressure throughout the water in the tester.



Figure: Pictures of the two types of pressure gages in the Fluids Lab

Note: It is important to ensure that no bubbles are in the tubing prior to taking the gage reading. The adjusting piston is used to make sure that the vertical piston is freely floating on the water.

Theory: Pressure Measurement (See chapter 3 of Fluids text)

One of the fundamental quantities of interest in hydraulics is pressure. Because of its importance, many methods have been developed to measure pressure. Pressure may be expressed with reference to any arbitrary datum. The usual data (plural of datum) are *absolute zero* and *local atmospheric pressure*. When a pressure is expressed as a difference between its value and the local atmospheric pressure, it is called *gage pressure*. Gage pressure can be negative but absolute pressures are always positive.

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