

**(EXPERIMENT NO. 4)**

***CALIBRATION OF A PRESSURE GAGE USING DEAD-WEIGHT TESTER***

**I. Theory**

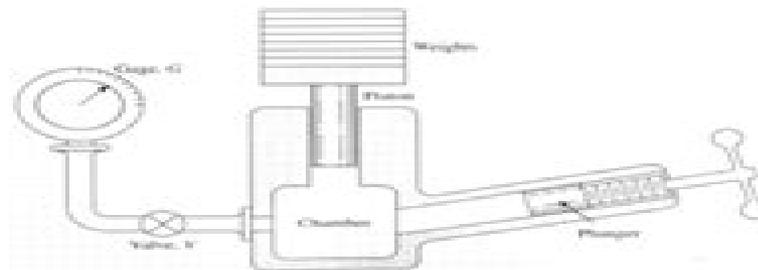


Figure 1. Deadweight Tester for Bourdon-tube pressure gage

A dead-weight tester is a device used for balancing a fluid pressure with a known weight. Typically, it is used for static calibration of pressure gages.

As seen in Figure 1, the apparatus is set up for calibration of the pressure gage G. The chamber and cylinder of the tester are filled with clean oil by first moving the plunger to its most forward position and then slowly withdrawing it while the oil is poured in through the opening for the piston. The gage to be tested is installed and piston pressure is now transmitted to the gage when the valve is opened. This pressure may be varied by adding weights to the piston or by using different piston-cylinder combinations of varying areas. The viscous friction between the piston and the cylinder in the axial direction may be substantially reduced by rotating the piston-weight assembly while the measurement is taken. As the pressure is increased, it may be necessary to advance the plunger to account for the compression of the oil and any entrapped gasses in the apertures.

The accuracies of dead-weight tester are limited due to: (1) the friction between the cylinder and the piston, (2) the uncertainty in the area of piston, (3) the buoyancy error and (4) gravity error.

**The gravity error** due to elevation,  $z$  [m], and latitude,  $\phi$  [ $^{\circ}$ ] can be corrected by the dimensionless correction factor as:

$$e_{gravity} = -(2.637 * 10^{-3} \cos(2\phi) + 2.9 * 10^{-5} z + 5 * 10^{-2}) \quad (1)$$

# Metrology Lab Manual For Pressure Gauge

**Daniel F McAuley**



## **Metrology Lab Manual For Pressure Gauge:**

## Embracing the Tune of Phrase: An Emotional Symphony within **Metrology Lab Manual For Pressure Gauge**

In a world eaten by screens and the ceaseless chatter of quick communication, the melodic splendor and mental symphony developed by the published term often fade into the background, eclipsed by the relentless noise and distractions that permeate our lives. But, nestled within the pages of **Metrology Lab Manual For Pressure Gauge** a charming literary prize full of raw feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this charming masterpiece conducts readers on a psychological trip, well unraveling the concealed songs and profound influence resonating within each cautiously crafted phrase. Within the depths of the moving examination, we will explore the book is central harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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web in this lab trimyristin is extracted from ground nutmeg occurring in many vegetable oils as well as myristic acid trimyristin consists of long saturated hydrocarbon chains and it is relatively nonpolar thus using a relatively nonpolar solvent trimyristin can be easily extracted by the concept of like dissolves like

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