

(EXPERIMENT NO. 4)

CALIBRATION OF A PRESSURE GAGE USING DEAD-WEIGHT TESTER

1. Theory

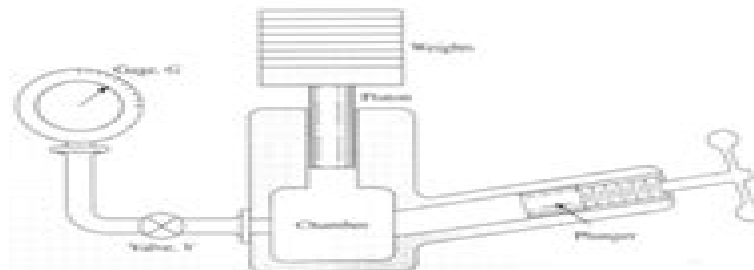


Figure 1. Deadweight Tester for Bourdon-tube pressure gage

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, ϕ [°] can be corrected by the dimensionless correction factor as:

$$e_{gravity} = -(2.637 \cdot 10^{-7} \cos(2\phi) + 2.9 \cdot 10^{-8} z + 5 \cdot 10^{-7}) \quad (1)$$

Metrology Lab Manual For Pressure Gauge

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Laboratory Manual for Exercise Physiology, Exercise Testing, and Physical Fitness Terry J. Housh, Joel T. Cramer, Joseph P. Weir, Travis W. Beck, Glen O. Johnson, 2017-06-30 Laboratory Manual for Exercise Physiology Exercise Testing and Physical Fitness is a comprehensive text that will provide students with meaningful lab experiences whether they have access to sophisticated laboratories and expensive equipment or they are looking for procedures that can be done without costly materials It will be a useful resource as they prepare for a career as an exercise science professional athletic trainer coach or physical educator The more than 40 labs cover seven major components of physical fitness They are practical and easy to follow consisting of a clear logical format that includes background information step by step procedures explanatory photographs sample calculations norms and classification tables and worksheets Lab ending activities and questions provide additional opportunities to practice the procedures and explore issues of validity reliability and accuracy Readers will find this manual a valuable tool in learning to apply physiological concepts and to perform exercise tests as well as an essential resource for any career involving physical fitness and performance testing

Experiments in Hydraulics and Hydraulic Machines : Theory and Procedures M. N. Shesha Prakash, 2011 [Bibliography and Index on Dynamic Pressure Measurement](#) William George Brombacher, Theodore William Lashof, 1955 *U.S. Government Research & Development Reports*, 1966-11 [Handbook of Physiological Research Methods in Health Psychology](#) Linda J.

Luecken, Linda C. Gallo, 2008 Designed to serve as a primary reference source for researchers and students interested in expanding their research to consider a biopsychosocial approach this book provides a thorough state of the art and user friendly coverage of basic techniques for measurement of physiological variables in health psychology research

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Circular United States. National Bureau of Standards,1955 **National Bureau of Standards Circular** ,1955

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