

Dead weight pressure gauge pdf

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The dead-weight tester operates on the basic pressure equation, where a series of masses are stacked on a piston of known area. The core component of the model CPB dead weight tester is therefore a Measurement Principle. Units feature a built-in priming pump for large volume. Fluke offers pneumatic, oil, & water deadweight testers known for their best-in-class uncertainties, fast stabilization times, and easy fine-adjustment. A conventional deadweight tester generates, controls, and measures pressure. The principle is $P = F/A$. This technical guide describes how to calculate pressures generated by a deadweight tester, or pressure balance, for use in calibrating pressure-measuring instruments. Units can be supplied in psi, bar, kgf/cm², and MPa. This robust instrument is highly accurate, quick and easy to use. Pressure is defined as the quotient of force and area. The P models are available in single or dual piston formats for increased operating ranges. The fluid used can be oil or water. Explained by the formula, Pressure = Force / Area ($P = F/A$) (see wiki). In this advancement of technology, we can Stand-alone operation. Its pressure source is created by a hydraulic pump. Since pressure is derived from force divided by area (F/A), the pressure generated by a dead weight tester is calculated by multiplying the mass by the acceleration due to gravity to determine the applied force, and then dividing this by the surface area of the piston cylinder. The pressure is applied by using a screwpress. Product overview: Fluke Calibration P Hydraulic Deadweight Tester. Due to its integrated pressure generation and the pure mechanical measuring principle, the model CPB dead weight tester is ideal for on-site use for maintenance and service. Basic principle. It is Deadweight Tester utilizes a set of weights in a mechanical and piston driven assembly in order to achieve a pressure reading.

 Difficulté Très facile

 Durée 655 heure(s)

 Catégories Électronique, Bien-être & Santé, Machines & Outils

 Coût 731 USD (\$)

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