Hydrostatic panel with thrust, fluids

EQ033A

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Hydrostatics. The pressure at a point in a liquid at equilibrium, Stevins principle. Measuring pressure on an open-tube manometer. Stevins principle, the fundamental principle of hydrostatics. Pascals principle. Baise Pascal and the principle that bears his name. Calculation of gauge pressure. The pressure measurement in mmH2O indicated by the open tube manometer. Converting pressure units from mmH2O to Pa and N/m2. An important application of Pascals principle, the hydraulic press. The thrust, experimental proof. The vertical force that acts on bodies submerged in fluids, called buoyancy force. Archimedes principle. What is meant by fluid. The weight of the volume of water displaced. The determination of the density of a liquid from buoyancy in a mixture of water and salt, etc.

Knowledge areas

Physics

Key Experiments

The pressure at a point of a liquid in equilibrium - Stevin´s principle
Pascal´s law, using water
The buoyancy, experimental verification
Archimedes´ principle

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