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Product Name :
Cavitation In A Venturi

Product Code :
LBNY-0005-1030009



Description :

The Cavitation Demonstration Unit offers a clear and easy-to-understand display of cavitation. Students create clearly visible cavitation in a Venturi and take measurements of flow and pressure. The causes and effects of cavitation are one of the most important subjects in any course on fluid mechanics. In severe cases, cavitation will damage machines and hydraulic systems. It also allows students to understand the Venturi by studying upstream and throat pressures. Students use theory and practical experiments to learn how to predict the onset of cavitation. They gain practical experience of using the continuity equation and Bernoulli's equation. They use these to calculate flow and pressure, different methods of creating cavitation and causes of error. The apparatus is a self-contained, mobile unit. Designers and engineers must be aware of cavitation when they create a new design or installation. Cavitation Demonstration Unit is a purpose-designed teaching unit which enables efficient and effective investigations into the causes and effects of cavitation. The frame includes a handy worktop for student paperwork. It consists of a robust frame which holds a water tank (or reservoir), an electric pump, a flow-control valve, a flow meter and a Venturi.

Technical Specification :

Water tank capacity(maximum): 80 L
Maximum apparatus flow rate: Approximately 45 L.min⁻¹
Maximum pump power: 1 kW
Dimensions: Net: Length 1280 mm, width 600 mm, height 1840 mm, packed for export: 2 m³.
Weight (dry): Net: 100 kg, packed for export: 189 kg.



Laboratory Instrument India