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Product Name : Energy Losses in Straight Pip

Product Code : LBNY-0005-2030004



Description :

Utilising the service unit the experiments rapidly mount onto the multifunctional workpanel and is connected to the built-in water supply via quick connectcouplings. Differential pressure reading is taken using a digital manometeragainst varying flow rates.

The Fluid Energy Losses in Straight Pipes Tray provides hands on experimentation designed to demonstrate energy losses due to the geometry of the flow path atdifferent flow rates.

Th etray includes the following Hydraulic Circuits: Contractionand expansion 8mm 4mm 8mm diameters Smooth and Roughened pipe 6mm diameter

Technical Specification :

Explanation of basic principles such as conservation of mass

Comparemeasured pressure drop from 3 different pipe forms, explaining the effect ofgeometry on pressure drop. UsingBernoull is equation, calculate the pressures and compare results withexperimental values.

Conservationof energy

Explainenergy loss and frictional loss

Calculate the frictional head loss and pressure drop using

Darcy's equation

Types of flow steady and unsteady flow, uniform and non-uniform flow etc.

Types of fluid flow regime i.e. laminar, turbulent and transitional flow.

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