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**Product Name :**  
Energy Losses in Bends

**Product Code :**  
LBNY-0005-2030005



#### **Description :**

The Fluid Science Energy Losses in Bends Systems Tray provides hands on experimentation designed to demonstrate energy losses due to the geometry of the flow path at different flow rates. Differential pressure reading is taken using a digital manometer against varying flow rates. Utilising the service unit the experiments rapidly mount onto the multifunctional work panel and is connected to the built-in water supply via quick connect couplings. The tray includes the following Hydraulic Circuits:  
Energy losses in Bends  
Mitre Bend, 6mm diameter.  
Shallow bend Radii 75mm, 6mm diameter  
Tight Bend Radii 25mm, 6mm diameter.

#### **Technical Specification :**

Explanation of basic principles such as conservation of mass  
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  
Conservation of energy  
Explain energy loss and frictional loss  
Using Bernoulli's equation, calculate the pressures and compare results with experimental values  
Compare measured pressure drop from 3 different pipe forms, explaining the effect of geometry on pressure drop.



**Laboratory Instrument India**