

Product Name :
Losses in Pipes Apparatus

Product Code :
NEGEMG126



Description :

Losses in Pipes Apparatus

Recirculating design with supply tank & measuring tank.

- Non corrosive tanks & piping.
- Transparent Venturi meter & Orifice meter made in acrylic

DESCRIPRION:

The Losses in Pipe friction apparatus is designed to experimentally measure the coefficient of friction & head loss due to friction. Set up consists of sets of pipe of different materials & pipe diameters. Each pipe has a test length of 1m & pressure tappings are provided to measure pressure head at two points. A differential mercury manometer is used to measure the pressure difference between two points. Effect of change in pipe diameter & pipe material can be studied. Water is supplied from the sump tank by centrifugal pump & measuring tank is

provided to measure the water flow rate. The entire setup is mounted on a strong steel frame.

EXPERIMENTAL CAPABILITIES:

- Determination of Major losses due to friction through pipes
- Study effect of pipe diameter on head loss due to friction
- Compare frictional factor for different pipe materials

Specifications:

- Pump: Self priming, Monobloc Centrifugal Pump, Max. Flow 30 LPM, Max. Head 20 m, 230 V AC
- Test pipes: Set of GI Pipes, Diameter $\frac{3}{4}$ " & $\frac{1}{2}$ ", Length 1 m, Set of PVC Pipe, Diameter $\frac{1}{2}$ " & $\frac{3}{4}$ ", Length 1 m
- Sump Tank: 100 Liters, made in PVC
- Measuring Tank: 32 Liters, Made in PVC, with level indicator
- Manometer: U tube Mercury manometer
- Piping: PVC Piping with valves
- Digital Stop Watch
- Frame: Made of M.S. Square Tubes & Sheets, Welded & Powder coated

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