



The Set-up consists of a  $\frac{1}{2}$  bend and elbow, a sudden expansion & sudden contraction fitting from 15 mm to 25 mm, ball valve and gate valve. Pressure tapings are provided at inlet and outlet of these fittings under test. A differential manometer fitted in the line gives pressure loss of individual fitting. Present Set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow control valve and by-pass valve are fitted in water line to conduct the experiment on different flow rates. Flow rate of water is measured with the help of measuring tank and stop watch.

#### EXPERIMENTS:

- To determine loss of head in the fitting at various water flow rates.
- To measure the loss co-efficient for the pipe fittings.

#### UTILITIES REQUIRED:

- Water Supply and Drain
- Electricity Supply: Single Phase, 220 V AC, 0.5 kW.

#### TECHNICAL SPECIFICATION:

- Sudden Enlargement : From 15 mm to 25 mm
- Sudden Contraction : From 25 mm to 15 mm
- Bend :  $\frac{1}{2}$
- Elbow :  $\frac{1}{2}$
- Ball Valve :  $\frac{1}{2}$
- Gate Valve :  $\frac{1}{2}$
- Water Circulation : FHP Pump, Crompton / Sharp make
- Flow Measurement : Using Measuring Tank with Piezometer, Capacity 25 Ltrs.
- Sump Tank : Capacity 50 Ltrs.
- Stop Watch : Electronic
- Control Panel : On / Off Switch, Mains Indicator etc.

The whole Set-up is well designed and arranged in a good quality painted Structure

Note: Specifications are subject to change.

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