KFM-07 Impact of Jet Apparatus

Specifications:

- 30 cm x 30 cm dia. transparent cylinder mounted on a stand.
- Differential lever mechanism with adjustable load screw mechanism & dead weight to measure the force.
  Sump Tank 1000 x 300 x 400 mm.
- Measuring tank - 300 mm x 300mm x 500 mm with drain valve.
- Two nozzles with inside section : Straight taper ,Curved taper
- Any Two vanes of - (with requirement give 5 all with extra cost)
- Semicircular vane with angle of deflection 180°
- Curved vane with angle of deflection 135°
- Horizontal flat vane angle of deflection 90°
- 60° inclined flat vane
- 30° inclined flat vane.

Range of Experiments:

- To study the impact of jet on various types of vanes & to measure impact forces.
- To find coefficient of impact.

KFM-08 Losses in Pipe Fitting

Specifications:

- This is the basic module required by all the experimental setups.
- **Storage Tank-**
  Sump Tank Size: 1000mm x 700mm x 300 mm height.
- **Collecting Tank -**
  The collecting Tank is 600 mm x 40 mm x 250 mm height. Capacity approx. 60 liters, fitted with drain valve "1" size. Manometer tube with calibrated list marking scale.
- **Monoblock Pump :**
  Monoblock, 1ph, ½ HP pump shall be provided with the set-up which shall be mounted on the base plate. Necessary piping with by-pass valve and suction piping are provided. The connection for the test equipment is made by flexible House pipe.
- Differential manometer of 300mm length with mercury.

Range of Experiments:

The apparatus is designed to demonstrate the loss of head due to the following fittings-

- Pipe Elbow
- Sudden Contraction
- Sudden Expansion
- Pipe Bend.

KFM-09 Venturimeter & Orificemeter Apparatus

Specifications:

- Sump tank with flow - 1000 mm x 300mm x 400 mm
- Measuring tank - 300 mm x 300mm x 600 mm
- Mercury Manometers(Differential)
- Each line provided with flow control value for setting of different flow rates.
- Pressure tubes of different pipe lines are connected to common manometer through cocks.
- Easy to operate and replacement of Venturimeter & Orifice meter.
- Flow control value at the end of each line assures full running of pipe.
- Differential manometer of 300 mm length with mercury.

Range of Experiments:

- Calibration of Venturimeter
- Calibration of Orifice meter