



Fluid Friction Apparatus

Category: Pneumatic, Hydraulic & Fluid Mechanics · Model reference: MZM-6010



SPECIFICATIONS

DESCRIPTION:

Range Of Experiment

- Laminar/turbulent flow in pipes
- Energy losses in bends and fittings
- Orifice plate
- Venturi meter
- Pitot tube
- Use of manometer (Hg & H₂O)

Specification

- Smooth-bore pipes of various diameters
- 16.0 ? Bore (PVC Tube VP 16)
- 9.5 ? Bore (Acryl Tube)
- 5.5 ? Bore (Acryl Tube)
- Artificially roughened pipe
- 16.0 mm Bore (PVC Tube VP16)
- 90° Bend (PVC 16 ?)
- Bends & Fittings
- 90° Elbow (PVC 16 ?)
- 90° T (PVC 16 x 16 ?)
- Sudden change of area
- Sudden contraction: 16? - 6?, 16mm - 10mm
- Sudden enlargement: 6? - 16?, 10mm - 16mm
- Valves
- Gate valve : 15A
- Glove valve : 15A
- Ball valve : 15A
- Venturi tube (Acryl)
- Inlet Dia.-24 ?, Throat Dia.-14 ?
- Orifice meter (Acryl)
- Inlet Dia.-24 ?, Orifice Dia.-16.0 ?
- Manometer
- Mercury manometer : 1000 ? (1 pair)
- Water manometer : 1000 ? (3 pair)
- Pump (Magnet) & Motor : 70 ?/min
- Water supply system
- Sump tank (PVC) : 140 L
- TSElectrical supply : 220V(60Hz), 143W

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