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Product Name :

Fluid Friction Measurements

Product Code :

SLE/MCE/42



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Description :

Fluid Friction Measurements (Product Code: SLE/MCE/42) is a pipe-flow trainer used to measure friction losses in straight pipes, fittings and flow meters in engineering and polytechnic hydraulics laboratories. It combines four smooth-bore pipes from 4.5 mm to 17.2 mm inside diameter, an artificially roughened pipe, a range of bends and elbows and 38 tapping points on one closed water circuit. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Smooth-bore pipes	4 pipes of different diameters, 4.5 mm to 17.2 mm inside diameter
Rough pipe	Artificially roughened pipe
Fittings	90° bends (large and small radii), 90° elbow, 90° mitre, 45° elbow, 45° Y, 90° T
Other test sections	Inline strainer, Perspex Venturi, Perspex orifice meter, Perspex pipe section with Pitot tube and static tapping
Tapping points	38, designed as annular chambers
Pressure	Bourdon tube pressure gauge, -1 to 1.5 bar
Differential pressure	1 differential pressure sensor, 0 to ±350 mbar; 8 tube manometers,0 to 1000 mm water column
Flow rate	Rotameter, 400 to 4000 L/h; volumetric measuring tank for timed measurements
Water circuit	Closed circuit with tank and submersible pump
Manometer panel	Movable, for space saving and easy access
Power supply	230 V, 50 Hz, 1 phase
Dimensions	800 x 800 x 1200 mm
Weight	120 kg
Product code	SLE/MCE/42
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Fluid Friction Apparatus Used For?

Every pipeline designer has to estimate how much head is lost to wall friction and fittings, and this trainer lets students measure those losses rather than just read them from charts. Water from the submersible pump is routed through one test section at a time; the pressure drop is read across the a[illegible] from a tim[illegible]

Comp[illegible]e rough[illegible]