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Product Name :

Flow Meter Demonstration Unit

Product Code :

SLE/MCE/43



Science Lab
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Description :

Flow Meter Demonstration Unit (Product Code: SLE/MCE/43) is a hydraulics bench accessory used to compare and calibrate a Venturi meter, a variable area meter and an orifice plate in fluid mechanics laboratories. Its eight-tube manometer also traces the pressure curve along the Venturi, which has a 15 mm throat, while the variable area meter reads 2 to 20 l/min. It is madeby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer building lab equipment for technical institutes, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Flow meters	Venturi meter, variable area meter and orifice plate, with a flow-control valve
Manometer board	8 tubes, 0 to 400 mm range, pressurised with a hand pump
Venturi throat diameter	15 mm
Upstream pipe diameter	31.75 mm
Upstream taper	21° inclusive
Downstream taper	14° inclusive
Orifice plate diameter	20 mm
Variable area meter	2 to 20 l/min
Head loss measurement	Pressure tappings across each meter
Water supply and calibration	Placed on a hydraulics bench, which supplies the water and provides the volumetric measuring tank
Dimensions (as listed)	800 x 800 x 1200 mm
Weight (as listed)	120 kg
Product code	SLE/MCE/43
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Flow Meter Demonstration Unit Used For?

The unit answers a practical question students will meet in industry: which meter should be fitted, and how far can its reading be trusted? With the circuit standing on the hydraulics bench, the class sets a flow on the control valve, reads the three meters, then collects water in the bench's volumetric tank against a stopwatch to get the true flow for calibrating each one.

Because the manometer tubes are spread along the Venturi, the same readings show the pressure falling into the 15 mm throat and recovering through the 14° diffuser — a direct check of Bern eal how r the hand

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