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Product Name :

Orifice and Venturi meter demonstrator

Product Code :

SLE/MCE/38



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Description :

Orifice and Venturi meter demonstrator (Product Code: SLE/MCE/38) is a flow measurement teaching unit used to compare a Venturi meter, a variable area meter and an orifice plate in hydraulics laboratories. The three meters sit in series on one circuit, read against an 8-tube manometer of 0 to 500 mm water column, and the unit stands on a hydraulics bench for its water supply. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Flow meters	Venturi meter, variable area meter and orifice plate, installed in series
Variable area meter range	2 to 30 l/min
Manometer	8 tubes, 0 to 500 mm water column, pressurised with a handpump
Venturi upstream pipe diameter	32 mm
Venturi throat diameter	20 mm
Venturi taper angles	21° and 14°
Orifice plate	Upstream pipe diameter 35 mm, orifice diameter 19 mm (an orifice plate diameter of 25 mm is also listed — confirm when ordering)
Flow control	Flow control valve to vary the flow rate through the circuit
Head loss measurement	Pressure tappings across each flow meter
Mounting and water supply	Support framework standing on the working top of a hydraulics bench, which supplies water and is used for volumetric calibration
Product code	SLE/MCE/38
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Orifice and Venturi Meter Demonstrator Used For?

Differential-pressure flow meters are everywhere in water supply and process plants, and this demonstrator lets students see how three common types behave when exactly the same flow passes through each. They set a flow with the control valve, read the manometer levels at the tappings, and then collect a timed volume in the bench tank to find the true flow rate for comparison.

From those readings a class can work out the coefficient of discharge of the Venturi and the orifice [illegible] meter [illegible]. Repe[illegible] curve[illegible]

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