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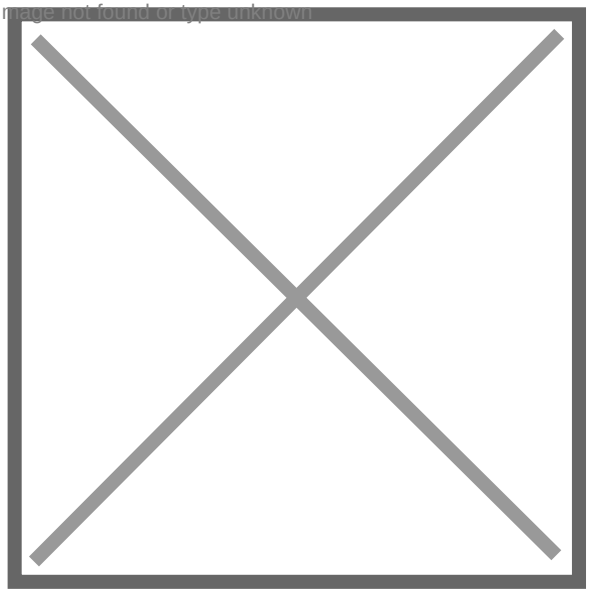
Product Name :

Bernoulli's Theorem Demonstration module

Product Code :

SLE/MCE/33

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Description :

Bernoulli's Theorem Demonstration module sits on a hydraulics bench and tests Bernoulli's equation along a convergent-divergent duct. An 8-tube manometerreading 0 to 300 mm of water shows the static head at each tapping, and a Pitot tubemoved along the conduit gives the head in each section. Removable conduit ends letthe duct face the flow either way.

Bernoulli module duct and manometer details

Parameter	Detail
Narrowing angles	21° downstream, 10° upstream
Manometer	8 tubes, 0 to 300 mm of water, all pressure taps connected, with water collector
Throat diameter	25 mm
Conduit	Removable ends; fits in convergent or divergent form relative to the flow
Probe	Pitot tube moving along the conduit, measuring the head in every section
Flow control and connections	Control valve at the module end; inlet female coupling to the bench supply; outlet hose to the volumetric measuring tank
Mounting	Hydraulics bench top, adjustable legs for levelling
Construction	Anodized aluminium / MS powder-coated structure; painted steel panel
Size and weight (approx.)	800 x 450 x 700 mm; 15 kg (33 lb)
Product code	SLE/MCE/33
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Running the Bernoulli experiment

Setting up and purging. Level the module on the bench top with its adjustable legs and couple the inlet to the bench supply. Run water with the control valve partly open until every manometer tube has filled and no bubbles remain in the tapping lines. Then set the valve so all levels sit on the scale.

Convergent duct readings. With the duct convergent to the flow, set a steady flow and read all 8 tubes once the levels stop moving. Time the filling of the bench mea
secti

Pitot

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