SCIENTICO INDIA
Manufacturer & Exporter · Ambala, Haryana, India

PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Bernoulli's Theorem Apparatus | FluidoSurge-X 120

Category: Fluid Mechanics · **Country of Origin:** India

Product Overview

A CE-certified fluid dynamics apparatus for experimental verification of Bernoulli's theorem and pressure-velocity relationships, manufactured by Scientico India to ISO 9001:2015 standards. Supplied with calibration certificate, operation manual, and complete export documentation. Designed for Fluid Mechanics laboratories in engineering colleges and technical institutions.

View this product online: https://scienticoindia.com/product/bernoullis-theorem-apparatus-fluidosurge-x-120/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Parameter	Specification
Model	FluidoSurge-X 120
Type	Bernoulli’s Theorem Apparatus
Application	Fluid Mechanics Laboratory
Venturi Material	Transparent acrylic
Upstream Diameter	26 mm
Throat Diameter	16 mm
Designed Flow Rate	20 LPM
Pressure Tappings	8 static pressure points
Manometer Tubes	8 tubes, 320 mm length each
Total Head Measurement	Movable total pressure probe
Baseboard	Aluminum profile with adjustable feet
Flow Control	Discharge valve at outlet
Connections	Quick disconnect hose couplings

Key Features

Key Features-

- Transparent Venturi for visual observation of flow behavior
- Eight pressure tapping points for simultaneous static pressure measurement
- Pressurized manometer bank with air bleed valve
- Movable total head probe for centerline pressure measurement
- Reversible test section for convergent and divergent flow studies
- Independent control of flow rate and pressure

Applications-

- Experimental verification of Bernoulli’s theorem
- Study of energy conversion in converging and diverging pipes
- Measurement of static pressure and total head distribution
- Determination of discharge coefficient of a Venturi
- Fluid mechanics and hydraulics laboratory experiments

Construction & Design Details-

The main test section is an accurately machined acrylic Venturi with circular cross sections of varying diameter. Static pressure tapings are positioned along the length of the Venturi and connected to a vertical manometer bank through a manifold. The baseboard is constructed from aluminum profiles and includes four height adjustable feet for precise leveling. Flexible hoses with rapid action couplings connect the apparatus to the hydraulic bench or laboratory water supply.

Export & Supply Capability-

SCIENTICO manufactures the Bernoulli's Theorem Apparatus FluidoSurge-X 120 for supply to engineering colleges, universities, and technical training institutes. The equipment is suitable for domestic supply and international export. Standard packing, accessories, and documentation are included with each unit.

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q1. What principle is demonstrated using this apparatus?
It demonstrates Bernoulli’s theorem by relating pressure, velocity, and energy along a flowing stream.

Q2. How many pressure points can be measured simultaneously?
Static pressure can be measured simultaneously at eight locations along the Venturi.

Q3. Can both converging and diverging flow be studied?
Yes, the Venturi test section can be reversed to study both convergent and divergent flow conditions.

Q4. How is total head measured in the apparatus?
Total head is measured using a movable total pressure probe positioned along the duct centerline.

Q5. What water supply is required for operation?
The apparatus operates with a hydraulic bench using a closed water circuit or a laboratory water connection.

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