**SCIENTICO INDIA**
Manufacturer & Exporter · Ambala, Haryana, India

**PRODUCT DATA SHEET**
Catalogue reference for product evaluation

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# Osborne Reynold's Apparatus with Manometer | FluidoSurge-X 133

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

## Product Overview

The Osborne Reynold's Apparatus with Manometer is designed to study fundamental flow regimes in fluid mechanics. It enables visualization of laminar, transitional, and turbulent flow while measuring pressure differences along a test pipe. Made by Scientico India, ISO 9001:2015 certified, and supplied with a calibration certificate and operation manual.

View this product online: https://scienticoindia.com/product/osborne-reynolds-apparatus-with-manometer-fluidosurge-x-133/




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

## Technical Specifications

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| **Product name** | Osborne Reynolds Apparatus with Manometer |
| **Model reference** | FluidoSurge-X 133 |
| **Primary teaching purpose** | Flow-regime visualisation, Reynolds-number determination and pressure-difference measurement. |
| **Flow arrangement** | Water supplied from a transparent header tank at constant head through a bell-mouth entry. |
| **Visualisation method** | Dye injection into a transparent flow tube. |
| **Pressure measurement described** | U-tube and inverted U-tube manometers between inlet and outlet of the test pipe. |
| **Final supplied scope** | Confirm measuring fluids, ranges, tube details, utilities, dimensions, documentation and accessories in the model-specific written quotation. |

## Key Features

### Learning outcomes and experiments

- Observe laminar, transitional and turbulent flow by controlled dye injection.
- Determine Reynolds number using volumetric flow measurement.
- Measure the pressure difference between the inlet and outlet of the test pipe.
- Compare visible flow-regime changes with the measured pressure behaviour.

### Functional configuration described for this model

- Transparent constant-head header tank with bell-mouth entry.
- Transparent flow-visualisation tube and dye-injection arrangement.

- Discharge control valve for regulating flow.
- U-tube and inverted U-tube manometers for pressure-difference measurement.

## 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

- How does FluidoSurge-X 133 differ from the standard Osborne Reynolds apparatus?
- Which flow regimes can be observed?
- Are the manometer ranges and fluids fixed?
- What should a distributor put in the BOQ line?

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