

Product Name :
Orifice Discharge Apparatus

Product Code :
NEGEMG134

NAUGRA[®]



Description :

Orifice Discharge Apparatus

The Orifice Discharge accessory consists of a cylindrical Clear acrylic tank which has an orifice fitted in the base. A traverse assembly is provided which enables a pitot tube to be positioned anywhere in the jet. Attached to this pitot tube is a fine wire which can be traversed across the jet to accurately measure the jet diameter and the vena contracta diameter and so determine the contraction coefficient.

The pitot head and the total head across the orifice are shown on manometer tubes adjacent to the tank.

In addition to the sharp edged orifice, four additional orifices with different profiled are supplied. All orifices have a common bore of 13mm for direct comparison of performance.

The Orifice Discharge accessory enables full analysis of the flow through five different orifices over a range of flow rates.

Experimental Capabilities:

- Establishing the coefficient of velocity for a small orifice.
- Determining the contraction and velocity coefficients.
- Calculating the discharge coefficient.

Specifications:

- Cylindrical glass tank with orifice fitted in base
- Four interchangeable orifices
- Pitot tube and knife edge to measure jet velocity and diameter
- Standard orifice: sharp-edged 13mm diameter
- Max. head: 365mm
- Traverse mechanism: Lead screw with adjusting nut calibrated 0.1mm per division

Naugra Export

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