

Product Name :
Orifice and Free Jet Flow

Product Code :
NEGEMG133



Description :

Orifice and Free Jet Flow

In the Orifice & Free Jet Flow accessory a constant head tank is fed with water from the Hydraulics Bench.

The orifice is installed at the base of this tank by means of a special wall fitting which provides a flush inside surface. The head is maintained at a constant value by an adjustable overflow and is indicated by a level scale. A series of adjustable probes allow the path followed by the jet to be ascertained. Adjustable feet permit levelling.

Experimental Capabilities:

- Establishing the coefficient of velocity for a small orifice.

- Finding experimentally the coefficient of discharge for a small orifice with flow under constant head and flow under varying head.
- Comparing the measured trajectory of a jet with that predicted by simple theory of mechanic

Specifications:

- Orifice diameters: 3.0mm and 6.0mm
- Jet trajectory probes: 8
- Max. constant head: 410mm
- Quick release fitting for easy connection to hydraulics bench

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