

This equipment permits calibration of two orifices of differing diameter and enables the trajectory of the jet to be plotted.

## **Experimental content**

- Establishing the coefficient of velocity for a small orifice
- ► Finding 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 mechanics
- ► Effect of tank level on jet outlet velocity

## Description

The Orifice & Free Jet Flow accessory incorporates a constant head tank 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 pipe and is indicated by a level scale. A series of adjustable probes enable the path followed by the jet to be ascertained.

Adjustable feet permit levelling.

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Technical specifications			
Orifice diameters	3.0mm and 6.0mm		
Jet trajectory probes	8		
Max constant head	410mm		
Requires hydraulics bench service unit F1-10/F1-10-2			

Overall dimensions	
Length	0.67m
Width	0.33m
Height	0.60m

Ordering codes		
► F1-17		

Issue: 2	Applications			
URL: http://www.armfield.co.uk/f1	ChE	ME	CE	IP

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