

Fluid Mechanics

A selection of units from the Armfield range

Complete Fluid Mechanics Laboratory (F1)

This series covers:

- **FLUID STATICS**
- **FLUID DYNAMICS**
- **OPEN CHANNEL FLOW**
- **ROTODYNAMIC MACHINES**

Hydraulics Bench (F1-10)

The Armfield Hydraulics Bench and accessories have long been the benchmark used in Fluid Mechanics teaching laboratories. The comprehensive range of equipment covers all aspects of the teaching of hydraulics in a safe, visual and easy to understand way, backed up by first class teaching materials.

Shown here with the **Hydraulic Flow Demonstrator (S16)** offering a highly visual demonstration of flow through open channels and close conduits.



C7MkII

Pipe Surge & Water Hammer Apparatus

This free-standing accessory to the F1-10 clearly demonstrates the difference between the phenomena of pipe surge and water hammer and how each is created.



Pascal's Apparatus

The Pascal's apparatus provides a simple demonstration that the pressure in an incompressible fluid varies with depth and does not depend on the shape of the container.



F1-31

C11MkII



Pipe Networks Accessory

This free-standing accessory to the F1-10 demonstrates the characteristics of flow through different arrangements of pipes and the effect of changes in pipe diameter on the flow through a particular network.



Fluid Properties Apparatus

The apparatus provides an introduction to the fundamental properties of liquids that affect their behaviour in practical applications.

Francis Turbine Demonstration

This demonstration turbine provides an introduction to the Francis inward flow reaction turbine.



F1-29



Fluid Statics and Manometry Apparatus

This apparatus provides an introduction to the behaviour of liquids under hydrostatic conditions (fluid at rest) and the application of these principles to pressure measurement using manometers.



armSOFT™

Armfield develops and maintains its own powerful data entry, data logging, acquisition and control software, utilised on many of these units.

for more details:

www.armfield.co.uk/armsoft



For more details on this range:
www.armfield.co.uk/f1

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