

Product Name :
Energy Losses in Pipes

Product Code :
NEGEMG135



Description :

Energy Losses in Pipes

The Energy Losses in Pipes accessory consists of a test pipe, orientated horizontally, which may be fed directly from the Hydraulics Bench supply or, alternatively, from the integral constant head tank. This equipment allows the pressure drop of water passing through a hydraulically smooth circular pipe to be measured in detail and the pipe friction equation to be verified.

These sources provide high or low flow rates which may be controlled by a valve at the discharge end of the test pipe. Head loss between two tapping points in the test pipe is measured using two manometers, a water over mercury manometer for large pressure differentials and a pressurized water manometer for small pressure differentials.

Excess water discharging from the constant head tank is returned to the sump tank of the Hydraulics Bench. Adjustable feet permit levelling.

Experimental Capabilities:

- Investigating the variation of friction head along a circular pipe with the mean flow velocity in the pipe.
- Investigating the effects of laminar and turbulent flow regimes.

Specifications:

- Diameter of test pipe: 3.0mm
- Length of test pipe: 560mm
- Distance between pressure tapping points: 510mm
- Range of mercury manometer: 500mm
- Range of water manometer: 500mm
- Measuring cylinder capacity: 1000ml

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