

Product Name :
Energy Losses in Bends and Fittings

Product Code :
NEGEMG139



Description :

Energy Losses in Bends and Fittings

The equipment is mounted on a free-standing framework which supports the test pipework and instrumentation. The following typical pipe fittings are incorporated for study: mitre bend, 90° elbow, swept bends (large and small radius), sudden contraction and sudden enlargement. All are instrumented with upstream and downstream pressure tapings. These tapings are connected to a bank of twelve water manometer tubes, mounted on the framework. Pressurization of the manometers is facilitated by a hand

pump. A gate valve is used to control the flow rate. A separate gate valve is instrumented with upstream and downstream pressure tapings which are connected to a differential gauge on the edge of the framework. The unit stands on the working top of the Hydraulics Bench which is also used as the source of water supply.

Experimental Capabilities:

- Measuring the losses in the devices related to flow rate and calculating loss coefficients related to velocity head.
- Comparing the pressure drop across each device.

Specifications:

- Pipe diameter: 19.48mm
- Differential pressure gauge: 0 to 3bar
- Enlargement diameter: 26.2mm
- Contraction diameter: 19.48mm
- Fittings:
 - 450 mitre
 - elbow
 - short bend
 - large bend
 - enlargement
 - contraction
- Manometer range: 0 to 440mm
- Number of manometer tubes: 12
- Differential manometers: 6

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