

**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

## Naugra Export

**Website:** www.naugraexport.com, **Email:** sales@naugraexport.com

**Address:** 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, 2601773

