

**Product Name :**  
Pipe Network Apparatus

**Product Code :**  
Fluid Mechanics Lab0028



**Description :**

Astra Scientific Pipe Network Apparatus

**Technical Specification :**

**DESCRIPTION**

The designed freestanding accessory to the Hydraulics Bench 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.

The permanent arrangement of PVC pipes and fittings is mounted on a freestanding support frame designed to stand alongside an Hydraulics Bench in use. Connection reinforced flexible tube and threaded union with 'O' ring seal, enabling connection to the without the use of tools.

Isolating valves enable a wide range of different series; parallel and mixed pipe configurations to be created without draining the system. Flow into the network and flow out from the

network at each outlet can be individually varied to change the characteristics of the system.

#### **FEATURES:**

- Measurement of head loss versus discharge for different sizes of pipes
- Characteristics of flow through interconnected pipes of different sizes
- Characteristics of flow through parallel pipe networks
- Characteristics of flow through series pipe networks
- Application of doubling pipes on existing networks to increase flow rate
- Characteristics of flow around a ring main and the effect of changes in supplies and off-takes
- Flows into and out from the appropriate network can be varied individually
- Specifically designed to allow the setting up of a wide range of different pipe arrays

#### **SPECIFICATIONS:**

- Inside diameter of pipes: 14mm (1x) 10mm (1x) 9mm (2x) 6mm (1x)
- Differential pressure measurement: Digital pressure meter
- Power required: 230v, single phase



## **Astra Scientific**

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