

REQUIRES F1-10



C11MKII shown with Armfield F1-10 Hydraulics Bench

NEW

MEASUREMENT CAPABILITIES

- > 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

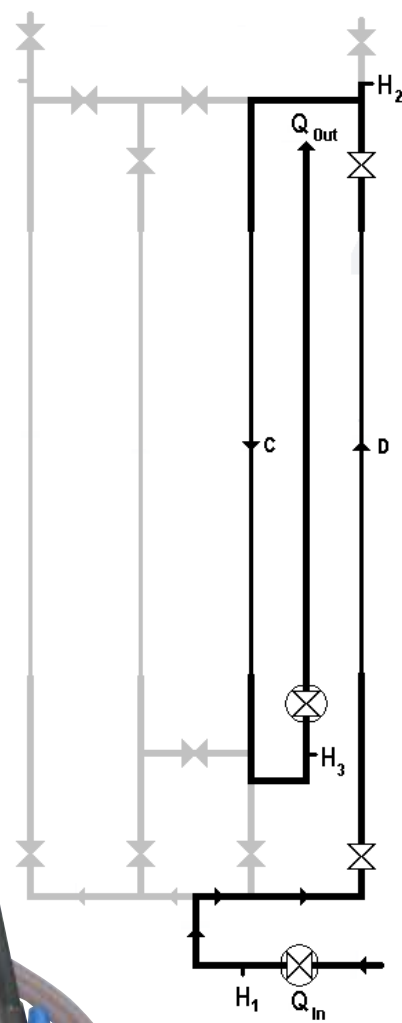
This free-standing accessory to the F1-10 Hydraulics Bench demonstrates the characteristics of flow through different arrangements of pipes and the effect of changes in pipe diameter on the flow through a particular network.



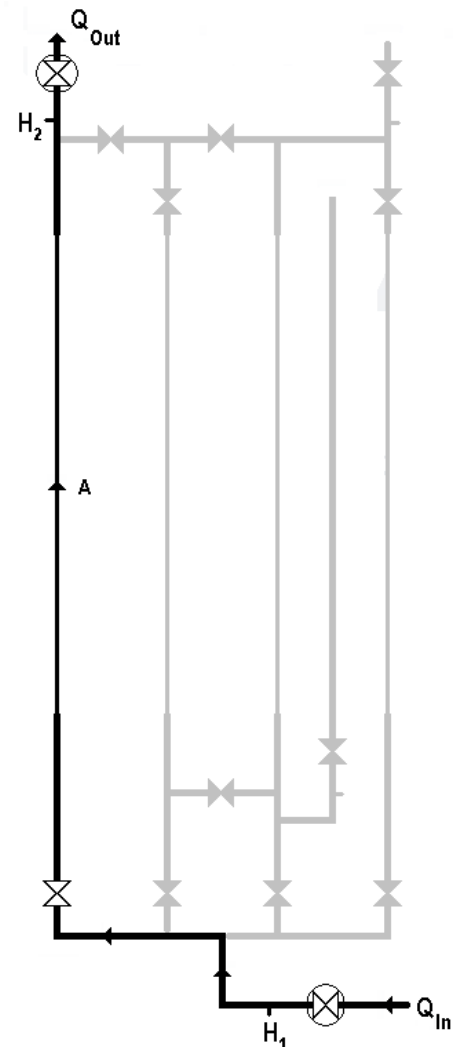
DESCRIPTION

The permanent arrangement of PVC pipes and fittings is mounted on a free-standing support frame designed to stand alongside an F1-10 Hydraulics Bench in use. Connection to the F1-10 is via a reinforced flexible tube and threaded union with 'O' ring seal, enabling connection to the F1-10 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. All clear acrylic test pipes are installed using threaded unions with 'O' ring seals that allow the pipes with different diameters to be repositioned without the use of tools.

Self-sealing quick release fittings at strategic points in the network allow rapid connection of the digital hand-held pressure meter, allowing appropriate differential pressures to be measured. Flow leaving any of the outlets in the network is measured using the volumetric facility incorporated on the F1-10 Hydraulics Bench.



Pipe C and D in series



Pipe A only

REQUIREMENTS

Requires Hydraulics Bench Service unit F1-10

OVERALL DIMENSIONS

Height: 1.380m

Width: 0.785m

Depth: 0.656m

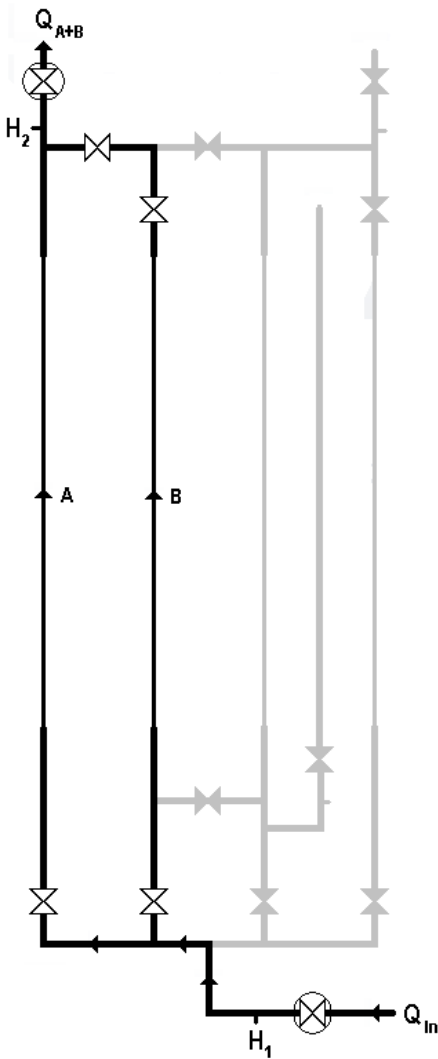
Length of pipes: 0.70m

Inside diameter of pipes: 14mm (1x) 10mm (1x)
9mm (2x) 6mm (1x)

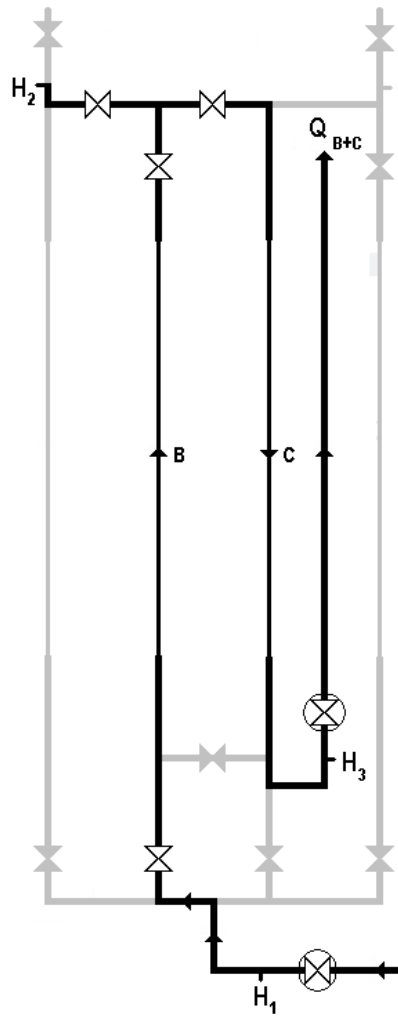
Differential pressure measurement: Digital pressure meter

SHIPPING SPECIFICATION

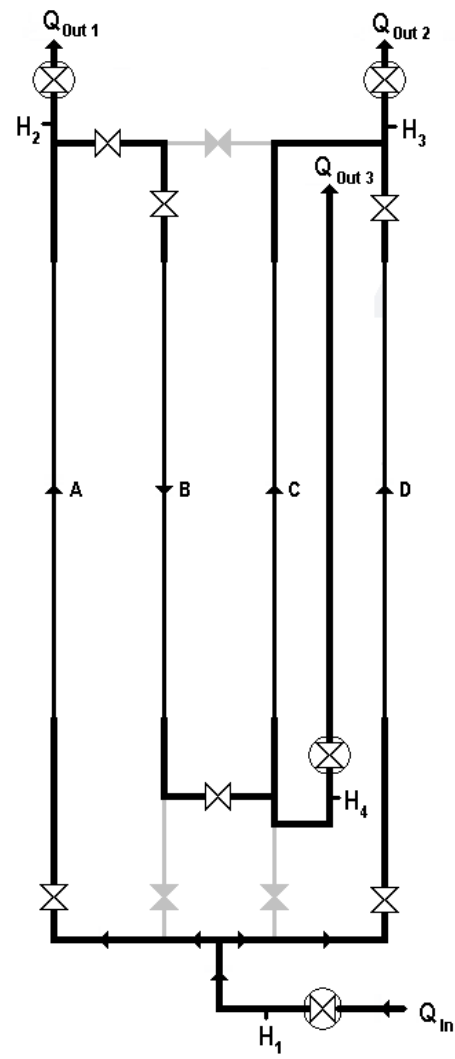
	Gross weight	Volume
C11MKII-10	240kg	1.4m ³
C11MKII	400kg	2.9m ³



Pipes A and B in parallel



Pipes B and C in series



Pipes A, B, C and D in a network

COMPLEMENTARY PRODUCTS

C1MkII:	Compressible Flow Bench
C3MkII:	Multi-pump Test Rig
C4MkII:	Multi-purpose Flume
C6MkII:	Fluid Friction Measurements
C7MkII:	Pipe Surge and Water Hammer
C9:	Flow Meter Demonstration Unit
C10:	Laminar Flow Table
C11MkII:	Flow in Pipe Networks
F1-18:	Energy Losses in Pipes
F1-21:	Flow Meter Demonstration
F1-22:	Energy Losses in Bends
F1-ABASIC:	Programmes for F1-18, F1-21 and F1-22. For more information see www.armfield.co.uk/armsoft

ORDERING SPECIFICATION

- Specifically designed to allow the setting up of a wide range of different pipe arrays (networks)
- Pipe network mounted on freestanding support frame for use alongside an F1-10 Hydraulics Bench
- Clear acrylic test pipes are all 0.70m long with inside diameters of 1x 6mm, 2x 9mm, 1x 10mm, 1x 14mm
- Includes hand-held electronic pressure meter with self-sealing quick-release connections to the pipe network
- Flows into and out from the appropriate network can be varied individually



* Excluding DV Arrange



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