

HYDRAULICS BENCH ACCESSORIES

This apparatus is to be used with Hydraulics Bench such as HB100 or HB100N (both are separately supplied) for a water supply and flow measurement. Instruction manual is also included.

HB 018 BENDS AND FITTINGS FRICTION



GENERAL DESCRIPTION:

The equipment measures pressure drops at various flow rates when water flow through different pipe bends, and fittings. It is to be used with Hydraulics Bench i.e. HB100 or HB100N (separately supplied).

All bends and fittings are connected in series with pressure tapings on both sides of each device. A water manometer with a vent valve and a hand air pump is connected to these tapings. A valve at the outlet is used to control outlet pressure.

EXPERIMENT CAPABILITIES:

- Determination of Pressure Drop across various pipes and fittings at differing flow rates.
- Estimation of Loss Coefficient (K) or various pipes, pipe fittings and valve settings

TECHNICAL DATA:

- Pipe diameter (nominal) : 20 mm
- Enlarged pipe diameter (nominal) : 35 mm
- Bends : 90° Miter bend
: 90° small radius bend
: 90° large radius bend
- Fittings : 90° Elbow
: 45° elbows
: Sudden expansion
: Sudden contraction
- Water manometer : 8 tubes x 450 mm x 1 mm graduation
- Software for data display and analysis by computer (separately supplied).

OPTIONAL EQUIPMENT:

- HF 010 Variable area flow meter
- A gate valve with pressure gauges
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unassembled) Shipping Dimensions WxLxH : 36 x 55 x 80 cm
Net Weight : Approx. 13 kg