ENERGY LOSSES IN BENDS AND FITTINGS

Mod. HB13/EV

DESCRIPTION

This equipment enables to calculate the energy losses on some elements of a hydraulic circuit such as bends, sudden contractions and enlargements, control valves, etc…
The available elements for the study of energy losses are:
– 90° elbow
– short bend
– large bend
– sudden contraction
– sudden enlargement
– joint
Each element has two pressure tapping points which are connected with a differential pressure gauge manometer of 12 tubes thus enabling to measure the head loss.
Another element of this equipment is a valve equipped with a pressure tapping connected with a manometer.

TRAINING PROGRAM:

- Measuring the energy losses in the different elements varying the flow rate and calculating the respective coefficients
- Comparing the energy losses across each element

TECHNICAL CHARACTERISTICS:

- AISI 304 stainless steel structure
- Pipe diameter: ½"
- Enlargement diameter: ¾"
- Fittings:
  - elbow
  - short bend
  - large bend
  - sudden enlargement
  - sudden contraction
  - joint
- Differential pressure gauge of 12 tubes range: 0-500 mm
- Pressure gauge: 0-3 bar

Dimensions: 650 × 400 × 900 (h) mm
Weight: 15 kg

REQUIRED

HYDRAULIC BENCH MOD. HB/EV OR HB-E/EV
- NOT INCLUDED -
or water supply (@2 bar) and drain

SUPPLIED WITH

THEORETICAL-EXPERIMENTAL HANDBOOK

OPTIONAL

SPREADSHEET SOFTWARE
For fluid mechanics equipment
Mod. SW-HB13/EV

Elettronica Veneta S.p.A. - 31045 Motta di Livenza (TV) Italy - Via Postumia, 16 - Tel. +39 0422 765 802 - Fax +39 0422 861 901 - E-mail: export@elettronicaveneta.com