

Product Name :
Losses in a Pipe System**Product Code :**
FUDE0077**Description :**

Losses in a Pipe System

Technical Specification :

- pressure losses in the piping system
- pressure measurement without interaction via annular chambers
- transparent measuring objects for determining flow rate

Pressure losses occur during the flow of real fluids due to friction and turbulence (vortices). Pressure losses in pipes, piping elements, fittings and measuring instruments (e.g. flow meter, velocity meter) cause pressure losses and must therefore be taken into account when designing piping systems.

allows to study the pressure losses in pipes, piping elements and shut-off devices. In addition, the differential pressure method is presented for measuring the flow rate.

The experimental unit contains six different pipe sections capable of being shut off individually. The pipe sections are equipped with piping elements such as bends, elbows and branches. In one pipe section, different shut-off devices and measuring objects are installed to determine the flow rate. The measuring

objects are made of transparent material and provide excellent insight into the inner structure. The pressure measuring points in the piping system are designed as annular chambers. This creates a largely interference-free pressure measurement.

The experiments measure the pressure losses in pipes and piping elements, such as branches and bends. The opening characteristic of the shut-off devices are also recorded. The pressures are measured with tube manometers.

The experimental unit is positioned easily and securely on the work surface of the base module. The water is supplied and the flow rate measured by MR-HM 150. Alternatively, the experimental unit can be operated by the laboratory supply.



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