

Description

Fluid Friction Apparatus

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A mobile, vertical panel featuring various pipe configurations to demonstrate flow and losses in different pipes fittings and valves. The equipment has three water circuits with instruments, pipes and pipe system components. These allow students to examine and compare the different component characteristics. The Digital Hydraulic Bench supplies the circuit with a controlled flow of water. A space-saving vertical panel holds all the parts for easy use. Fluid Friction Apparatus allows students to study flow, flow measurement techniques and losses in a wide variety of pipes and fittings. They measure pressure losses across instruments or components. The hydraulic bench gives an external flow rate for reference and comparison. To perform experiments students record the temperature of water in the hydraulic bench and set the hydraulic bench to pump water through a circuit. The flow measurement instruments show students the common methods of measuring water flow. Students use a Venturi meter and an orifice plate meter and compare the losses of each. They also find the losses in a rapid enlargement.

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