

PIPE FRICTION FOR LAMINAR- TURBULENT FLOW



Experimental capabilities

- Study of the flow regimes in a piping
- Pressure profile in a piping
- Calculation of the Reynolds number
- Influence of temperature

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BCD400

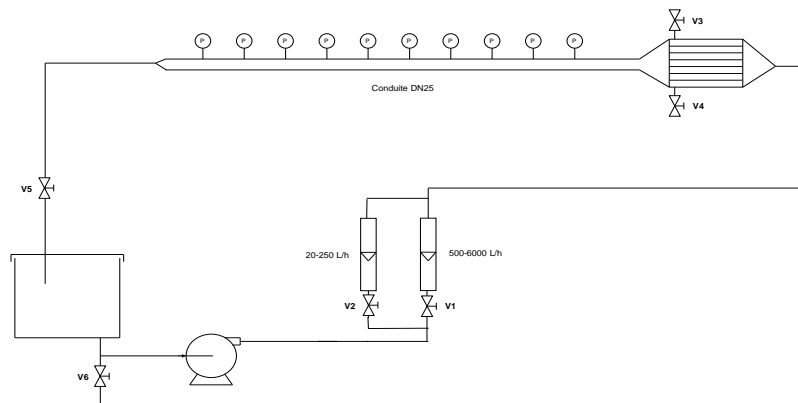


Operating principle

The BCD 400 bench allows the study of flow regimes in a piping. A pump sucks the fluid contained in a tank and sends in a closed hydraulic circuit comprising all the components. It is equipped a lot of pressure measuring connected to a multi manometer water column with scale. Students will need to vary the flow of water using an accurate flowmeter and measure the pressures along the pipe. The unit is delivered complete, instrumented. The didactic interest is directed for different levels and fields of study. The robust design of this equipment makes it perfectly suited for use in schools. Its anodized aluminum structure on multidirectional wheels with brakes makes it extremely robust and a great flexibility of integration into your premises. The manufacturing of this equipment meets the European Directive machine.

Illustrations

Technical details



Aluminum anodized chassis with wheels

Polypropylene tank 75 L

The presence of the low level detector

Fluid in a closed hydraulic

Circulation pump

Flow rate 9m³/h, 0,75kW

Body and wheel in stainless steel

Float flowmeter

Scale 500 – 6000 L/h

Scale 20 – 250 L/h

Pipe

Length 1.5m diameter D32-DN25

10 pressure taps connected to piezometric tubes

Stabilizing stream

Transparent PVC material

Stabilizer plate

Temperature measurement in the tank

Scale 0-60°C

Person protection

Differential circuit breaker 30mA

Services required

Documentation

- Electrical supply : 230 VAC – 50 Hz – 20 A
- Water supply: 15 L/min – 3 bar (tank)
- Dimensions : (LxWxH mm): 2500 x 800 x 1900
- weight (Kg): 190

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

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Illustrations non contractuelles / Illustrations not contractual

version : FT-BCD400-STD-D