

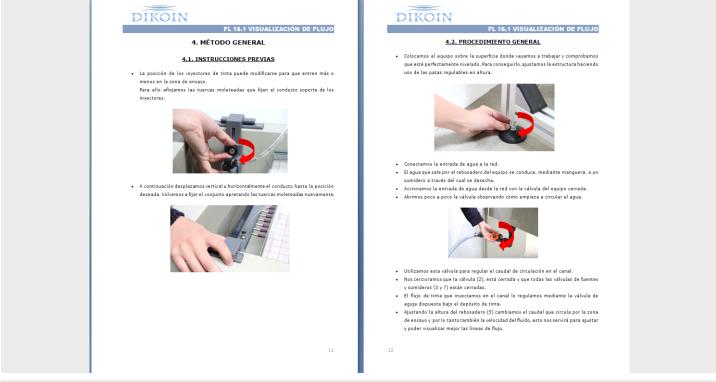
The flow visualization table allows to study the flow behaviour through different objects by flow lines, besides being able to simulate sources and sinks.

Upstream, the ink is supplied through needles generating current lines. The ink flow is controlled by a **regulating valve**.

Handeling the needle valves, we can introduce in the current **sinks** (points where water leaves the stream), **sources** (points where water enters the stream) or a combination of both.

Different models are supplied with the equipment: car profile, aerodynamic profile, circle, rectangle, square, teardrop, etc., with which we can clearly see the flow of current lines passing aroung these.





The manual shows clearly and with a lot of images, the hole process to operate the equipment.



The equipment has 21 lines of ink through needles.



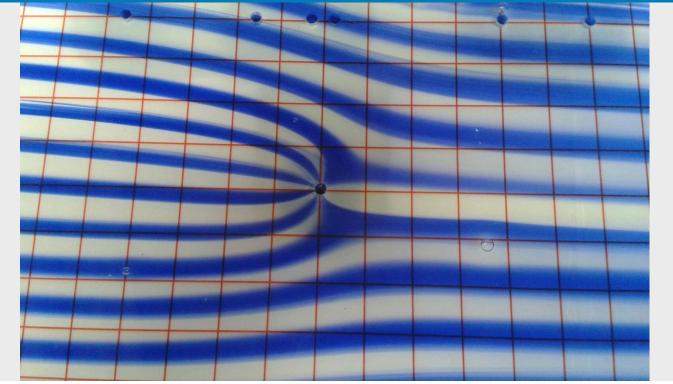


The equipment includes diferent models: car profile, aerodynamic profile, circle, rectangle, square, etc.



Car profile model.





Visualization of flow lines during an experiment with the equipment.



**TECHNICAL DATA:** 

### LEARNING OBJECTIVES:

- Study of the flow around different submerged bodies:
  - car profile
  - symmetrical aerodynamic profile
  - square
  - tear
  - triangle
  - semicircles

• Ideal flow associated with sinks and sources

- formation of Rankine half-body
- formation of a circular Rankine oval
- flow lines of a doublet
- overlapping of sinks and sources.
- Study of bi-dimensional flow through flow lines.

#### Working area:

- Length: 900 mm
- Width: 600 mm
- Distance between plates: 3 mm

#### Ink supply:

- Type: acrylic ink
- Number of liness: 21 ink lines through needles

#### Sinks and sources:

 $\bullet$  8 sinks or sources, regulated through 2 needle valves each one.

#### Dimensions of the equipment:

• Length x Width x Height (mm): 1.372 x 712 x 1.345

### **REQUIREMENTS:**

Water inlet: 20 liters/min