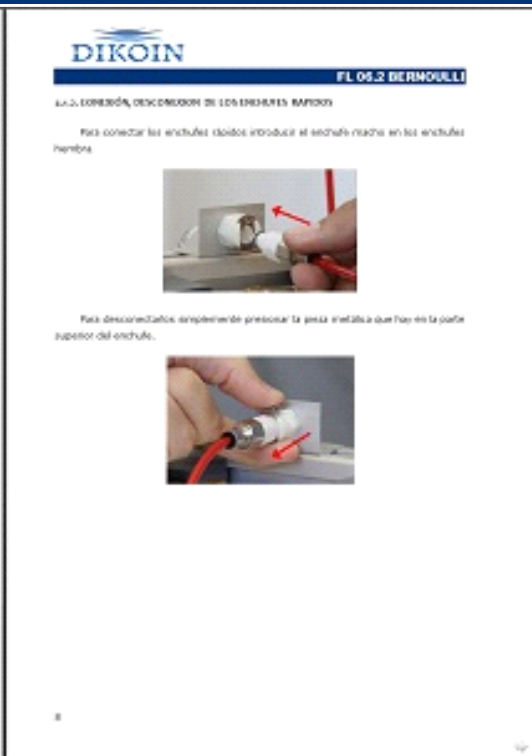


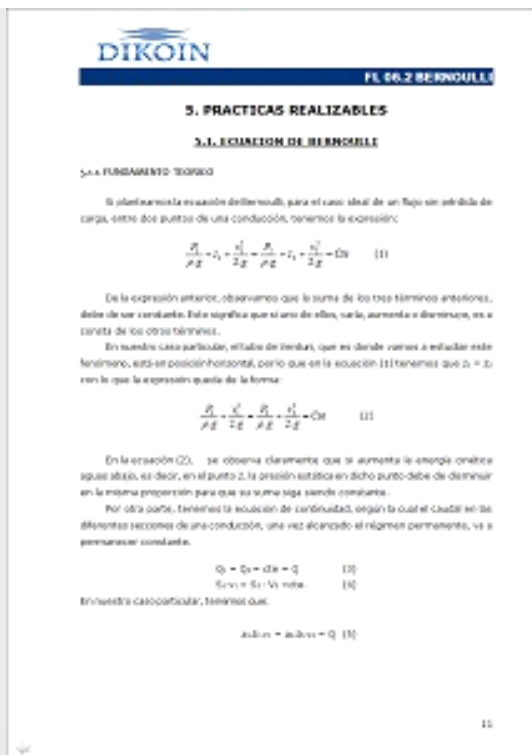
The equipment FL 06.2 is a simple equipment that further explores the Bernoulli equation and its proof.

The machine has a multi-tube manometer in which we can read simultaneously the different pressures along the canal.

The connection to hydraulics bench (not included) is performed with a threaded link standing without tools, and the connections are self-sealants, fast connections that keep the water out when you disconnect.



The user manual clearly shows and with a large number of images, the entire process to be followed to operate the equipment.



The practical manual shows and explains all the theoretical foundations, as well as the mathematical formulas used for the realization of all the experimentation.

DATOS PRELIMINARES

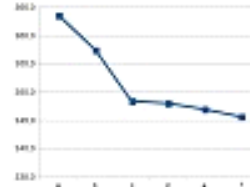
CARDA: 3 Posición	Diámetro "Ø" mm.	Área sección mm ²	Velocidad media [m/s]	Altura cristalica h ₀ [mm c.a.]	Altura piezométrica h _p [mm c.a.]	Altura total h ₀ + h _p [mm c.a.]
a	28,2	625	8,43	8,61	338	346,6
b	21,5	363	6,7	25,49	330	357,5
c	35,5	214	1,2	72,89	325	348,5
d	20	314	8,53	34,84	314	348,0
e	23,8	445	8,37	56,87	338	347,0
f	28,2	625	8,43	8,61	337	345,0

CARDA: 3 Posición	Diámetro "Ø" mm.	Área sección mm ²	Velocidad media [m/s]	Altura cristalica h ₀ [mm c.a.]	Altura piezométrica h _p [mm c.a.]	Altura total h ₀ + h _p [mm c.a.]
a	28,2	625	8,50	47,42	402	409,0
b	21,5	363	3,37	327,64	309	436,60
c	16,5	214	2,68	366,15	48	414,15
d	18	214	3,82	309,66	140	414,67
e	23,8	445	3,18	84,80	325	409,61
f	28,2	625	8,53	47,42	387	399,63

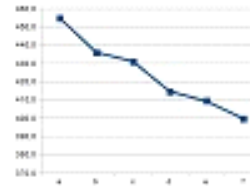
15

DIVISION DE RESULTADOS

• Carda 1



• Carda 2



16

Together with the user manual, a completely resolved manual is given with the data to be obtained during the practice with the equipment. In this way, the teacher can easily check if the students are doing the job correctly.



For the study of the static, dynamic and total pressures, the equipment has a pitot tube, whose position within the venturi can be varied.



The DIKOIN gauge construction system, made of transparent glass and methacrylate machined and polished, makes it possible to clearly visualize if there are any bubbles in the system that can divert the measurement.

LEARNING OBJECTIVES

- Demonstration of Bernoulli's equation along a venturi.
- Calculating the pressure drop of a venturi.
- Study of static, dynamic and full pressure.

TECHNICAL DATA

Bores:

- Main pipe:
 - \varnothing internal = 28,2 mm.
 - \varnothing external = 32 mm.

Gauges:

- Multimanometer 7 columns of water, measuring range 600 water drop.

REQUIREMENTS

- Hydraulic Bench FL 01.4.