

Cylinders testing unit

FIT350-4S model

The best testing performance



Description

The unit is basically composed from a painted steel support structure and from a rotating structure.

On the rotating structure, n° 4 manual vices are installed in order to hold the cylinders during the test.

On the rotating frame, the manifolds with the test flexible hoses are installed.

The inverting operation is allowed by an electrical motor-reducer with irreversible function that guarantee safety if power shut-off occur.

All the electrical controls, at low tension, are installed on a control panel on the left of the unit. Inside the metallic box protecting the mechanical transmission, all the pneumatic valves and devices allowing the test cycle are installed.

The power electrical panel is fixed on the top of this metallic box. A pumping group is also connected to the unit allowing to fill the cylinders, to test them and recover the water in a plastic box, in a closet circuit.

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MAIN FEATURES

- Test of cylinders and fire extinguishers both of steel and aluminium
- N° of cylinders for each test: 4
- Cylinders minimum diameter Ø: 60-mm
- Cylinders max diameter Ø: 225-mm
- Cylinders min height: 200-mm average
- Cylinders max height: 1100-mm average
- Cylinders max volume: 18 litre average
- Cylinders standard thread: W 28,8 x 1,814 DIN477
- Test pressure range: 10 - 450 bar
(depending on the version)
- Cylinders tested (average): 24 cylinders/hour
(depending from water capacity)

OPERATING CYCLE

Shortly the test cycle consists of the following operations:

- positioning the empty cylinders on the test bench
- filling the cylinders with water
- pressure testing
- inverting and emptying the cylinders
- taking out the testing cylinders from the machine.

In detail, the test cycle consists of the following procedure:

- positioning on the bench the first cylinder (empty), closing the cylinder by vice, inserting on the cylinder thread of the test head (manually) and controlling the correct insertion;
- repeating the above operation for the 2nd, 3rd and 4th cylinder;
- manually starting the operation "water filling" and automatically cutting-off at operation elapsed;
- as soon as the water filling is over, the operator manually starts the pressure test of the cylinders till the required pressure. The test pressure can be chosen on the control panel. In this way, the machine stops it automatically when the test pressure is reached. The test pressure can be done with the cylinders in vertical position or reversed of 30°, in order to better control their bottom. This last option must be programmed firstly from the control panel;
- as soon as the test pressure is reached, the machine stops it automatically and keeps the cylinders in pressure for the required time. Test time must be selected first from the control panel;
- after the test control, the operator manually starts the "End of Cycle" allowing in sequence the following:
 - o depressurization
 - o inverting the cylinders on the water recovery position
 - o cylinders emptying and water recovery (by compressed air)
 - o inverting the cylinders on the start position and acoustic signal "End of Test"

> PER MAGGIORI INFORMAZIONI:
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