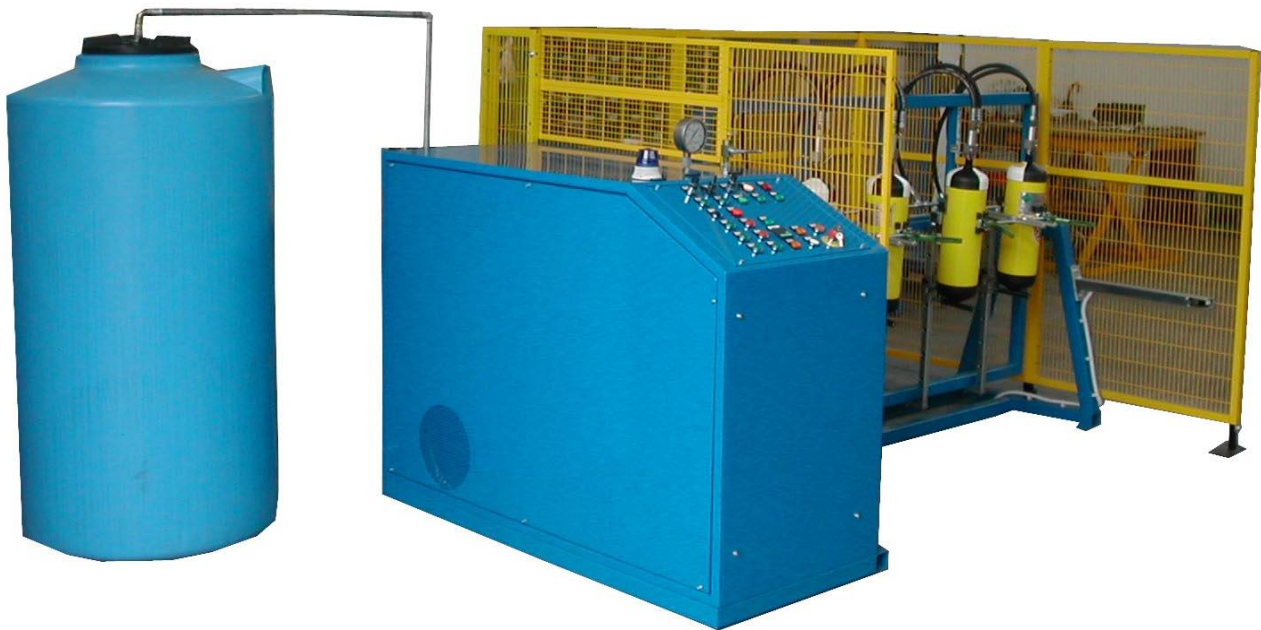


Cylinder testing unit

FIT350-4S model

The best testing performance



Description

The unit is basically composed by a painted steel support structure and 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 achieved thanks to 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 electric power panel is fixed on the top of this metallic box. A pumping group is also connected to the unit, allowing to fill the cylinders, test them and recover the water in a plastic box, in a closet circuit.

Cylinder testing unit



MAIN FEATURES

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

OPERATING CYCLE

Shortly, the test cycle consists of the following operations:

- place the empty cylinders on the test bench
- fill the cylinders with water
- pressure testing
- invert and discharge the cylinders
- take out the testing cylinders from the machine.

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

- place the first cylinder (empty) on the bench - close the cylinder by the vice, insert the cylinder thread of the test head (manually) and control the correct insertion;
- repeat the above operation for the 2nd, 3rd and 4th cylinder;
- manually start the operation "water filling" and automatically cut-off at operation elapsed;
as soon as the water filling is over, manually start the pressure test of the cylinders till the required pressure has been reached. 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 automatically and keeps the cylinders in pressure for the required time. Test time must be selected firstly from the control panel;
- after the test control, manually start 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"

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