

Technical Description

Condom Leakage Testing Device LP-10-C-A



Condom leakage testing device LP-10-C-A (picture shows device with optional accessories)

Construction

The device is designed to carry out electric leakage tests on 10 condoms at once according to the latest ISO 4074 standard.

It is built on a rigid stainless steel basic frame. Two tanks of plastic material are mounted on the frame which contains the saline solution used for the testing. A crosshead carries 10 condom holders with individual electrodes. The crosshead is moved up and down by a spindle drive for smooth motion. The electronic system is installed in a separate switch cabinet. It is equipped with 10 individual high precision measuring amplifiers and a PLC controller unit for data transfer to a personal computer.

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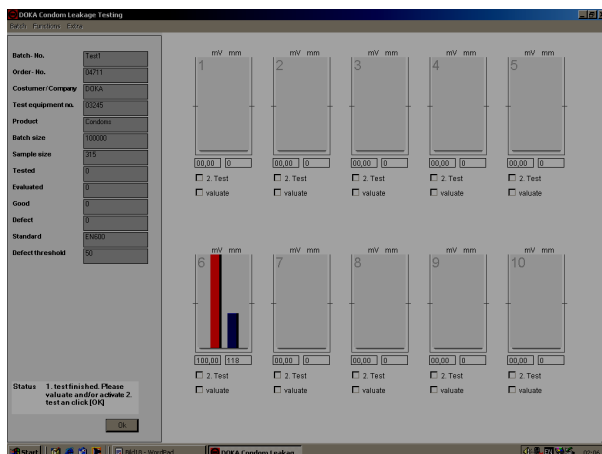
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Method of testing

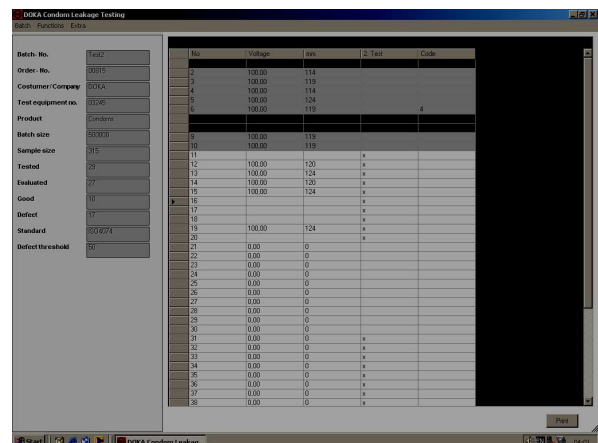
Ten condoms are fastened to the receiving spouts and filled automatically with a saline solution. The condoms are thereupon dipped automatically into a tank which is also filled with a saline solution. Electrically conducting metal probes are located inside the saline solution filled condoms and also inside the dipping tank, into which the condoms are dipped. After the condoms have fully dipped into the tank, the penetration resistance of each individual condom is tested by low voltage. An indicating lamp lights up whenever a condom is defective.

The test results are evaluated by using a separate software package for a personal computer, which gives also the opportunity for a protocol printout. The menu of software is available in several languages. It is based on Microsoft Windows and allows data transfer into other programs such as MS Excel.

The travel of the crosshead is monitored during the immersion of the condoms. The position of the first pinhole detected is stored for each condom. The device is supplied with an integrated calibration resistor for periodical checks of the accuracy of each of the 10 measuring circuits.



Operating screen



Protocol screen

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Technical data

Testing time for 10 condoms:	approx. 60 seconds
Required labour:	One person
Electric connection:	230 V / 50 cycles
Controller:	PLC
Equipment dimensions:	width x depth x height (without computer) approx. 2.200 x 800 x 1760 mm
Execution:	According to latest CEN / ISO standards <ul style="list-style-type: none">• Standard filling capacity: 300 ml• Testing voltage 10 V DC• Testing resistor 10 kOhm• Voltage drop ≥ 50 mV is indicated as defect (voltage drop can be adjusted individually) <p>Distance measuring system for determination of position of defect spot in the condom</p>
Material:	Stainless steel, plastics and anodised aluminium
Calibration:	Device is calibrated before the supply. A calibration certificate is supplied with the device.
Software package:	For listing and statistical evaluation of the measuring data. Available in several languages. Allows data transfer to other programs like Microsoft Excel.
Operating Instructions:	In English language