

T8720

CONTINUOUS AND VOLUME DISCHARGE FLOW TESTER



Flow measurement with solid-state sensor.

Leak display in volumetric mode (cc/h or cc/min) with a classic leak testing tool is restricted by setting the volume of the piece being tested which, using mathematical algorithms, allows conversion of the pressure decay in volumetric decay.

To release this system from restrictions, the flow leak tester T8720 was designed which, using one solid-state and one pressure sensor, displays the leaks detected directly in volumetric mode, with no need to set the volume being tested.

This characteristic makes it extremely versatile in the event of large volume variables being tested, and particularly intuitive in the analysis of test cycle progression.



Solid-state sensor



Multiple operating modes



Intelligent pressure adjustment

Limitless connectivity.

The new T8720 equipment includes ports for the USB slave, RS232, RS485, Can bus and TTY. Assembly may also include an optional Ethernet port and a 26-pole connector with 4 inputs and 8 outputs, which are completely programmable, for interfacing with the external valves, safety barriers, switches, etc...

The front panel has a master USB port assembled on it for connection to a USB key to save the tests conducted, backup/restore parameters and upgrade tool firmware. The connection to thermal printers, barcode/data-matrix readers and markers takes place automatically using an internal menu.



USB key



High power outputs



RS232, RS485, Can, TTY



Ethernet and auxiliary connector

Hybrid functioning.

The particular operation of the T8720 consists of continuous injection of test air, unlike a classic leak testing system, and directly measures the leak flow, which varies from a few cc/min to various hundredths, based on the application. This system makes the tool suitable for measuring leaks which

go beyond the classic leak testing scales, but which are not close to the normal flow test values, which normally arise to measure thousands of cc/min of leaking; this is why the nature of the T8720 is a hybrid between two technologies. Measurement resolution starts with 0.1 cc/h based at the bottom of the scale, varying from 50 to 1,000 cc/min, with maximum pressure of 10 bar.



Automatic pressure regulator



Measurement up to 20,000 cc/min



Resolution starting from 0.1 cc/min

Made to measure pneumatic section.

To avoid overheating due to long activation times of the filling circuit, we have designed particular, high capacity pneumatic valves, which not only work in hot temperatures, but also quickly fill the piece being tested, making the T8720 also suitable for testing on parts with significant volumes.

All of the above, while maintaining ForTest's historic reliability.



Heat-proof pneumatic valves



High filling speed



No periodic maintenance

Innovative design.

What appears to be a simple design exercise, in fact hides an in-depth study to make use and understanding of the tool as simple as possible.

The front panel is made of a single sheet of tempered glass and aluminium, which makes it extremely easy to clean, making the T8720 suitable for use in the laboratory and on the production line.

The extensive internal menus are easy to understand and the graphic interface was designed to only display important information.

Everything is exactly where it should be.



User-friendly interface



Easy to clean



Use in sectors at 360°

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Application Sectors

Aerospace	Valves	Packaging
Automotive	Alternative Energy	Gas
Household Appliances	Mechanical	Hydraulics
Electronics	Medical	Pneumatics

Measurement Characteristics

Type		
Δp(FLOW)	Accuracy	1% RDG+0,1% FS
	Resolution	From 0.01 cc/min
Direct Pressure	Accuracy	0.5% FS

Optional

- Electronic regulator
- AUX I/O 24VDC with 8 output programmable, 4 input programmable, 4BCD
- Communication interfaces
- Pneumatic fast filling
- Pre-filling
- Volume measurement

Features

- Resolution from 0.01 cc/min
- HMI touchscreen controller
- Colour display
- USB pen drive for store results and test parameters
- Bluetooth Low Energy and WiFi interfaces on-board
- Real Time Graph of pressure and decay
- 300 Test Programs
- USB Type-B female connector for PC
- 6 Languages (English, Italian, French, German, Spanish, Portuguese)
- Mechanical Start/Stop button
- Firmware upgrade via USB pen
- Password protection
- 24V I/O (Start,Stop,Filling,Test,Good,Reject,4BCD)

- Unit measure available: mbar, bar, psi, mmHg, mmH2O, Pa, hPa, cc/min, cc/h pressure/s
- Frontal connector for Staubli calibrated leak

Technical Specifications

- Dimensions 270 × 160 × 300 mm
- Weight 8 Kg
- Electrical Supply 24VDC, 110 VAC, 230 VAC
- Air tube size: 4×2.7, 6×4, 8×6, 10×8

Test Modes

- Leak Flow test
- Ramp +
- Ramp -

Communication Interfaces

Interface Name	Standard	Protocol
RS232/RS485	Yes	ForTest, Modbus RTU, Trace EOT
USB-Serial	Yes	ForTest, Modbus RTU, Trace EOT
Ethernet TCP/IP	Optional	ForTest, Modbus RTU, Trace EOT
Profinet	Optional	Profinet
EtherCAT	Optional	EtherCAT

Accessories

- Barcode reader
- Label printer
- Leak Test Manager PC software
- Air filter
- Electrovalve group "cylinder's" type with filter
- External Start/Stop push button