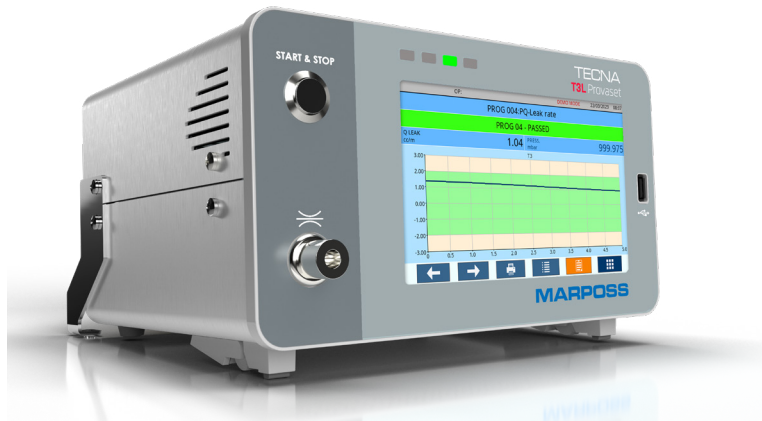


Provaset T3LPQ

INSTRUMENT FOR LEAK TESTS WITH THE DIRECT MEASURE OF THE LEAK FLOW RATE



- Leakage measure with mass flow sensor: $\geq 2 \text{ cm}^3/\text{min}$ up to $100 \text{ cm}^3/\text{min}$
- Resolution up to $0.01 \text{ cm}^3/\text{min}$
- Electronic regulation of the test pressure from 5 mbar to 1 bar, 2 bar depending on test conditions
- 300 test programs and sequences
- Digital I/O interfaces, RS232/RS485 serial lines, USB for PC and Ethernet



DESCRIPTION

Provaset T3LPQ is an electro-pneumatic instrument, designed for testing air tightness by direct measurement of air leakage.

The balanced pressure method allows to obtain measurements that are independent from the tested volume and it offers the best stability and precision.

The touch interface, with a colour display and a real-time view of the tests makes the programming and the use simple and immediate.

PROVASET T3LPQ is suitable for all industrial segments, on testing benches, in production lines or in fully automated systems.

Finally, the control of external

automations, the connection with barcode, Qrcode readers and printers and the possibility to record the tests on USB memories or via Ethernet make it a complete and suitable instrument for the most modern production methods.

MEASURING THE LEAKAGE FLOW

At the end of the phases of filling and settling, the pressure is maintained constant by the internal electronic controller. The flow that originates therefore corresponds to the flow required to maintain the product under test at the programmed test pressure and thus corresponds to the leakage flow. The leak is measured continuously allowing the operator to immediately execute processes of adjustment or repair.

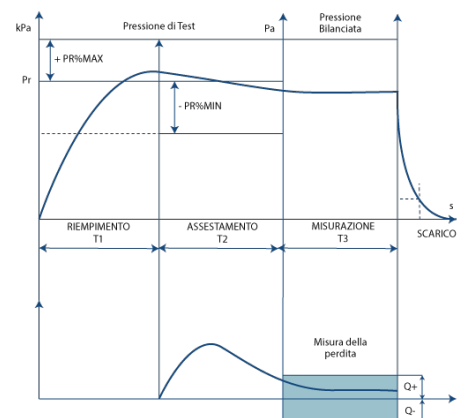
This method is very effective and flexible and allows a significant reduction of the test time.

CALIBRATION SERVICE

Each equipment is accompanied by a calibration report released by Tecna srl.

According to the requirements of ISO9001 standard, calibration must be verified at specified intervals against national or international test masters. Tecna srl, through its specialized personnel and certified instruments, offers a complete scheduled calibration service.

TEST



Provaset T3LPQ

Rev 04/24

SPECIFICATIONS

Power Supply	External 24 Vdc; alternatively 85÷264 Vac, 35W
Compressed Air Line	Dry, non-condensing, 5-micron filtered and oil-free air, compliant with ISO8573-1 (1:2:1)
Calibration	Calibration Reports or Certificates Software-guided procedure with sample instruments.
Pressure Regulator	Electronic, with dedicated pressure transducer to visualize the regulated pressure on the display
Display and Keyboard	7" colour TFT LCD display with resistive touchscreen
Indicators	4 LED lights (testing phases, pass/reject outcome)
Test counter	Passed and Rejected totals, resettable to zero
Audible alarm	Built-in beeper with programmable duration
Programmable parameters	300 testing tables with sequential mode, general parameters, volume calculation to indicate the leak rate in cm ³ /min or cm ³ /h
Digital IO	8 (+8 optional) programmable inputs and 8 (+8 optional) programmable outputs
USB	2 host for firmware update, barcode, QRcode reader (optional), data collection, backup and restore 1 slave for computer interface
LAN and Fieldbus	Ethernet Profinet and ProfiBUS (optional)
Serial Lines	1 port configurable RS232/RS485
Protocols	Profinet, ProfiBUS, Modbus RTU - TCP/IP, CSV ASCII, barcode, QRcode, printer, jServer
Staubli® Connector	Standard, for Leak Masters
Housing	Unpainted anodized aluminium

OPTIONS

- 2 programmable pneumatic outputs for external commands (plug/marker)
- I/O expansion: adds digital PLC inputs/outputs (8+8) and a RS232/RS485 serial line
- Additional Profinet, USB, ProfiBUS interfaces for remote control and data collection
- Software for managing label printer, barcode or Qrcode reader

ACCESSORIES

- Air filters
- Certificated Leak Master to be inserted in the Staubli® connector
- Remote control keypad
- 3-colours indicator light with loud sound alert
- External valves for a quicker filling phase
- Certificated Leak Master to be inserted in the Staubli® connector on T" fitting
- Dust caps included

SOFTWARE MANAGER

- LAN jServer interface to collect and manage datas
- Parameter programming

DIMENSIONS

