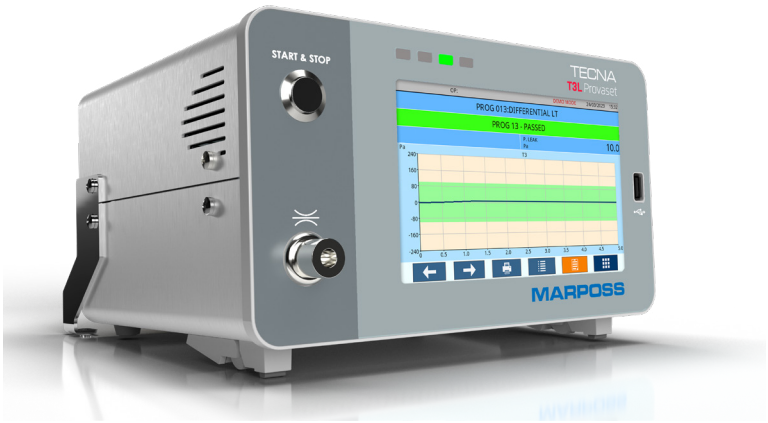
Provaset T3LD

EQUIPMENT FOR LEAK TESTS BY DIFFERENTIAL METHOD



- Leak tests with full scale up to 30 bar and in vacuum
- Resolution of 0.1 Pa (0.001 mbar)
- 7” colour LCD display with touchscreen
- 300 test programs
- 300 test sequences
- Electronic pressure regulator
- Digital I/O interfaces for PLCs, RS232/ RS485 serial lines, USB for PC and Ethernet

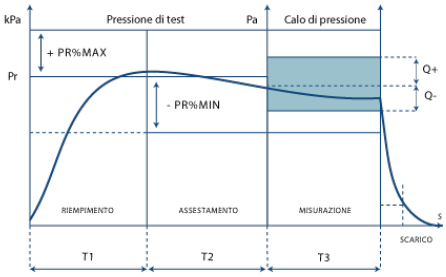
DESCRIPTION

T3LD is an innovative device for leak tests by pressure differential method. By measuring the pressure difference between the product being tested and a reference sample, the test times are reduced and the sensitivity is heightened.
The touch interface, with a colour display and the real-time visualization of the tests, makes the programming and the use simple and immediate.
Its high measurement resolution and the test accuracy, in combination with the electronic regulation of the filling pressure, allow to perform not only leak tests but also destructive burst tests, safety valves opening checks, volumetric control, obstruction tests and “in bell” tests on sealed products or by interception method.
The control of external automations, the interface 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 applications.

TEST

DIFFERENTIAL PRESSURE DECAY

The testing cycle is based on a comparison between the product being tested and a reference volume. In this way, the effects of the pressure settlement inside the tested product are reduced and the accuracy in detecting a leak rate is increased, achieving excellent results in a quicker interval.



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.

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Rev 04/23

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
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; alternatively manual regulator
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 reader (optional), data collection, backup and restore 1 slave for computer interface
LAN and Fieldbus	1 RJ45 Ethernet Profinet, ProfiBUS (optional)
Serial	1 port configurable RS232/RS485
Interfaces and Protocols	Profinet, ProfiBUS, Modbus RTU - TCP/IP, CSV ASCII, barcode, Qrcode, printer, jServer
Staubli® Connector	Standard, for Leak Masters
Housing	Unpainted anodized aluminium

OPTIONS

- Setup for test in negative pressure
- 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 to manage a label printer and a barcode or Qrcode reader

ACCESSORIES

- Air filters
- Certificated Leak Master to be inserted in the Staubli® connector
- Barcode, Qrcode readers and printer
- Remote control keypad
- 3-colours indicator light with loud sound alert
- External valve for volume check and tests in sealed “bell”

SOFTWARE MANAGER

- LAN jServer interface to collect and manage datas
- Parameter programming
- LabVIEW™ drivers for Modbus RTU

DIMENSIONS