

CATHETER HYDRAULIC PRESSURE LEAK TESTER



Catheter Hydraulic Pressure Leak Tester – ToronMed-CHPLT01 is engineered to evaluate the hydraulic pressure leak performance of non-intravascular catheters, infusion sets, and related medical tubing. By replicating real-world hydraulic pressure conditions, this instrument helps manufacturers ensure safety, compliance, and long-term reliability in critical healthcare applications.

Standards Compliance

Designed to comply with major international medical device testing standards, including:

- EN 1618 (Catheters – Leakage testing)
- Relevant ISO/EN standards for catheter and infusion set performance testing

Standard Configuration

- Main instrument unit
- Hydraulic liquid reservoir
- Integrated micro printer

Why Choose Catheter Hydraulic Pressure Leak Tester – ToronMed-CHPLT01

The Catheter Hydraulic Pressure Leak Tester – ToronMed-CHPLT01 provides unmatched accuracy, automation, and reliability for medical device testing. Designed for manufacturers, R&D facilities, and quality control laboratories, this instrument delivers repeatable results while meeting international compliance requirements.

With robust data storage, user-friendly operation, and long-term performance, the Catheter Hydraulic Pressure Leak Tester is an essential solution for ensuring catheter safety and quality.

APPLICATIONS

- Basic Applications
 - Suction catheters
 - Drainage catheters
 - Infusion sets
- Extended Applications
 - Trachea cannulas
 - Peritoneal catheters
 - Urinary catheters



FEATURES

- **Advanced Microcomputer Control**
Embedded high-speed processor with intuitive interface ensures efficient and precise operation.
- **7-Inch HD Touchscreen**
Real-time data and curve display provide clear visibility for accurate monitoring and analysis.
- **Built-In Safety Systems**
Overvoltage protection and power-off memory safeguard operations and maintain data integrity.
- **Connectivity & Data Storage**
RS232 interface for PC connectivity and large-capacity storage for up to 100,000 test records.
- **High-Precision Flow Control**
Equipped with an electronic flow controller for stable and repeatable gas flow regulation.
- **Flexible Testing Modes**
Presetable pressure and hold times can be quickly entered, with automated judgment and reporting.
- **Automated Reporting**
Results are calculated and displayed automatically, with options for direct printing.

THEORY & METHOD

Test Principle

The Catheter Hydraulic Pressure Leak Tester applies the positive pressure test method. The catheter or infusion set is connected to a hydraulic tank, where the desired pressure and duration are entered. The system then pressurizes the tank, monitors for leaks across the test sample, and automatically determines pass/fail status while storing detailed results.

TECHNICAL SPECIFICATIONS

Specification	Value
Test Range	0-600 kPa (0-87 psi, standard) Optional: 0-1.6 MPa (0-232 psi)
Gas Supply Pressure	0.4-0.7 MPa (customer-supplied)
Gas Supply Port	Φ8 mm PU Tubing
Instrument Dimensions	310 × 370 × 150 mm
Reservoir Dimensions	215 × 215 × 240 mm
Voltage	AC 220V 50Hz / AC 110V 60Hz
Net Weight	25 kg



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