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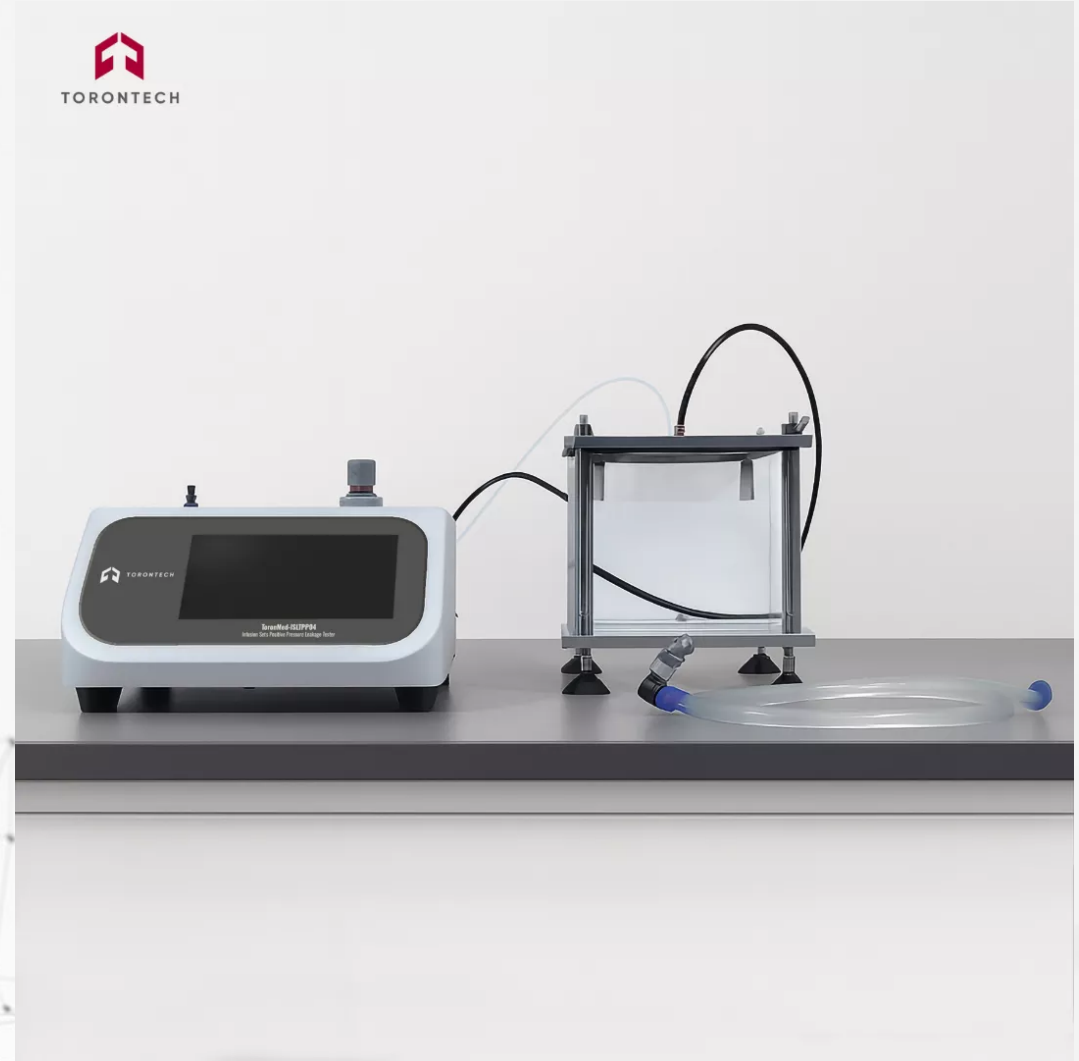

INFUSION SETS POSITIVE PRESSURE LEAKAGE TESTER

Infusion Sets Positive Pressure Leakage Tester | ISO 8536-4, EN 1618

Infusion Sets Positive Pressure Leakage Tester – ToronMed™ ISLTPP04 is designed to evaluate the positive pressure leakage performance of infusion sets. It is also suitable for testing various catheters, blood transfusion sets, and anesthesia filters, ensuring product safety, compliance, and reliability under clinical pressure conditions.

Why Choose Infusion Sets Positive Pressure Leakage Tester – ToronMed™ ISLTPP04?

The Infusion Sets Positive Pressure Leakage Tester – ToronMed™ ISLTPP04 combines precision, automation, and robust safety features to deliver dependable results for infusion and catheter leakage testing. With gradient testing capability, advanced data management, and GMP-compliant security, it is trusted by medical device manufacturers, R&D facilities, and quality control laboratories worldwide.

This tester ensures that infusion sets and related medical devices meet global performance and safety requirements, making it a critical tool for protecting patient safety and ensuring regulatory compliance.

APPLICATIONS

- Basic Applications
  - Infusion sets
  - Catheters
- Extended Applications
  - Blood transfusion sets

- Anesthesia filters

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ToronMed-ISLTPP04
Infusion Sets Positive Pressure Leakage Tester

Standards Compliance

The ToronMed™ ISLTPP04 Infusion Sets Positive Pressure Leakage Tester is designed in accordance with major international standards, including:

- ISO 8536-4 (Infusion equipment for medical use)
- EN 1618 (Catheters – Leakage testing)

FEATURES

- Advanced Microcomputer Control
  Embedded processor with simplified interface delivers precise, efficient, and user-friendly operation.
- 7-Inch HD LCD Touchscreen
  Displays test data and curves in real time for clear analysis.
- Gradient Test Mode
  Enables identification of the critical leakage pressure value for specimens with high accuracy.
- Large-Capacity Data Storage
  Stores up to 100,000 test records with convenient access to historical data for review and printing.
- Built-In Safety Protections
  Overvoltage protection, power-off memory, and automatic shutdown for over-range pressure extend instrument life and ensure safe operation.
- Data Security & Compliance
  Four-level password protection and GMP-compliant software with user management, authority management, and audit trail functionality.
- Automated Results & Reporting
  Pass/fail judgments are automatically determined, and results can be printed directly.

THEORY & METHOD

Test Principle

The Infusion Sets Positive Pressure Leakage Tester applies controlled positive pressure to the infusion set or catheter system. By maintaining the preset pressure for a defined duration, the system monitors for leaks and determines whether the device meets required performance and safety criteria.

TECHNICAL SPECIFICATIONS

Specification	Value
Test Range	0–600 kPa (0–87 psi, standard) Optional: 0–1.6 MPa (0–232 psi)
Accuracy of Pressure Sensor	≤ 0.3% FS
Resolution	0.1 kPa
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

Standard Configuration

- Main instrument unit
- 7-inch touchscreen interface
- Hydraulic liquid reservoir
- Integrated micro printer

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Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE

Phone: +971 488 19252
Email: me@torontech.com

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