



GROSS LEAK TESTER

Gross Leak Tester | ASTM F2096, ASTM F2054, ASTM F1140, ISO 11607-1, ISO 11607-2

Gross Leak Tester – ToronMed™ GLT02 is designed to detect gross leaks in sterile medical device packaging using the positive pressure method (bubble test).

Beyond gross leak testing, it can also be applied to seal strength, burst pressure, creep-to-failure, compression resistance, torsion force, and joint/disengaging force evaluations across a variety of flexible packages, aseptic packaging, tamper-evident closures, tubes, caps, blister packs, and aerosol valves.



This versatile instrument ensures packaging integrity and compliance with international standards.

Standards Compliance

The ToronMed™ GLT02 Gross Leak Tester complies with major international packaging integrity standards, including:

- ASTM F2096, ASTM F2054, ASTM F1140
- ISO 11607-1, ISO 11607-2

Standard Configuration

- Main instrument unit
- 7-inch touchscreen
- Dual sensors
- Micro printer
- Gross leak test fixture (test chamber)

Optional Accessories:

- Professional software and communication cable
- Fixtures for restraining/unrestrained package tests
- Fixtures for tamper-proof closures, flexible tubes, aerosol valves, and blister packs

Why Choose Gross Leak Tester - ToronMed™ GLT02?

The Gross Leak Tester – ToronMed™ GLT02 offers comprehensive testing capabilities for packaging used in medical, pharmaceutical, food, and consumer industries. With its multiple test modes, customizable fixtures, large data storage, and compliance with ASTM and ISO standards, it ensures accurate, reliable results for package integrity testing. Whether for R&D laboratories, production lines, or quality control, the Gross Leak Tester provides a cost-effective, versatile solution for safeguarding packaging performance and regulatory compliance.

APPLICATIONS

- Basic Applications
 - Gross leak testing of packaging bags and boxes
- Extended Applications
 - Burst strength testing of packaging bags, bottles, and boxes
 - Creep and creep-to-failure testing for sealed packages
 - Seal performance testing of tamper-proof closures
 - Integrity testing of three-sided sealed materials
 - Compression resistance testing of medical blister packs
 - Leak testing of soft tubes for medical, cosmetic, or food packaging
 - Seal performance of aerosol valves (pesticides, sprays, medical aerosols)

FEATURES

- Multiple Test Modes

Supports gross leak, burst, creep, creep-to-failure, and pressure maintaining tests.
- User-Friendly Operation

7-inch HD touchscreen with real-time data and curve display.
- Flexible Testing Methods

Dual methods of restraint distension and unrestrained distension for diverse package types.
- Robust Safety Design

Overvoltage protection and power-off memory guarantee operational stability.
- Expanded Test Range

Dual load cells support both large and small samples.
- Precision Control

High-precision electronic flow controller ensures consistent gas flow regulation.

- Data Storage & Reporting
Stores up to 100,000 test records, with automated result judgment and integrated printer.
- Ergonomic Test Frame
Adjustable inflatable head and test frame for simplified operation.
- Customizable Functions
Supports tailored leak test methods for specialized packaging requirements.

THEORY & METHOD

Test Principle

The Gross Leak Tester applies internal pressurization to the packaging under test. Depending on the selected mode, it evaluates packaging strength and sealing performance:

- Burst Test – Maximum burst pressure until package failure
- Creep Test – Pressure drop over time
- Creep-to-Failure Test – Time to failure at a set pressure
- Pressure Maintenance Test – Package holds specified pressure over time
- Gross Leak Test – Bubble test for major leaks

TECHNICAL SPECIFICATIONS

Specification	Value
Test Range (Sensor 1)	0-600 kPa (0-87 psi)
Test Range (Sensor 2)	0-10 kPa (0-1.45 psi)

Specification	Value
Optional High Range	0-1.6 MPa (0-232 psi)
Gas Injection Heads	Φ10 mm (standard), Φ4 mm, Φ1.6 mm (optional)
Gas Supply Pressure	0.4-0.7 MPa (customer-supplied)
Gas Supply Port	Φ8 mm PU tubing
Number of Sensors	2
Instrument Dimensions	370 × 310 × 150 mm
Pedestal Dimensions	356 × 305 × 325 mm
Voltage	AC 220V 50Hz / AC 110V 60Hz
Net Weight	25 kg



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