



MULTIFUNCTIONAL LUER CONICAL FITTINGS TESTER

Multifunctional Luer Conical Fittings Tester | ISO 80369-7:2016, ISO 80369-20:2015

Multifunctional Luer Conical Fittings Tester – ToronMed™ MLCFT01 is designed to test both locking and non-locking Luer connectors used in infusion sets, infusion needles, syringes, injection needles, blood transfusion sets, anesthesia filters, and various intravascular and non-intravascular catheters.

This advanced system provides accurate, repeatable results to ensure compliance with international safety and performance standards.

Why Choose Multifunctional Luer Conical Fittings Tester – ToronMed™ MLCFT01?

The Multifunctional Luer Conical Fittings Tester – ToronMed™ MLCFT01 offers precision, versatility, and compliance for medical device manufacturers, R&D facilities, and quality control laboratories. By covering multiple test items—including leakage, torque, separation force, and ease of assembly—this instrument provides a comprehensive evaluation platform for Luer fittings.

With intelligent control, GMP-compliant data management, and robust safety features, the Multifunctional Luer Conical Fittings Tester is an essential solution for ensuring the safety, reliability, and regulatory compliance of Luer-based medical devices.

APPLICATIONS

Standards Compliance

The ToronMed™ MLCFT01 Multifunctional Luer Conical Fittings Tester is designed in accordance with major international standards, including:

- ISO 80369-7:2016 – Luer connectors for liquids and gases
- ISO 80369-20:2015 – General test methods for small-bore connectors



FEATURES

- **Safety-First Design**
Magnetic shield protects the rotating roller, while a slip ring between the torque sensor and roller ensures precise torque testing.
- **High-Accuracy Measurement**
Equipped with an American-imported load cell with accuracy up to 0.5% FS.
- **7-Inch Color Touchscreen**
User-friendly interface with intelligent data processing and real-time data display.
- **Automatic Calibration & Memory**
Simplified calibration process with power-off memory for operational continuity.
- **Versatility Across Samples**
Compatible with a wide range of Luer connector specifications.
- **Comprehensive Data Handling**
Stores up to 100,000 test records, with GMP-compliant software including user management, authority management, and audit tracking.
- **Advanced Processing Power**
Built with the latest Arm chip system for smarter, faster performance.
- **Multiple Testing Capabilities**
Supports liquid and air leakage testing, separation force, unscrewing torque, ease of assembly, resistance to overriding, and stress cracking of syringes and hypodermic needles. Displays real-time parameters including axial force, torque, holding time, internal water pressure, separation force, and leakage rate.

TECHNICAL SPECIFICATIONS

Specification	Value
Axial Force	0–100 N ($\pm 0.5\%$ accuracy)
Internal Water Pressure	0–600 kPa ($\pm 0.5\%$ accuracy)
Negative Pressure	–90 kPa to 0 kPa ($\pm 0.5\%$ accuracy)
Torque	0.01–0.50 N·m ($\pm 0.5\%$ accuracy)
Separation Force	20–40 N (0–100 N range, $\pm 0.5\%$ accuracy)
Voltage	AC 220V, 50Hz (110V is also available)
Dimensions	580 × 280 × 510 mm
Net Weight	28 kg

Standard Configuration

- Main instrument unit
- 7-inch touchscreen interface
- Micro printer
- Gas and liquid reservoirs
- Standard connectors (1 set)



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