

ANESTHETIC & RESPIRATORY EQUIPMENT CONICAL CONNECTOR TESTER



Anesthetic & Respiratory Equipment Conical Connector Tester | ISO 5356-1:2015

Anesthetic & Respiratory Equipment Conical Connector Tester – ToronMed™ ARECCT02 is designed to evaluate the performance and sealing integrity of conical connectors used in anesthesia and respiratory devices.

It performs multiple critical tests, including liquid and air leakage, separation force, unscrewing torque, ease of assembly, resistance to overriding, stress cracking, positive pressure liquid leakage, and sub-atmospheric air leakage. This versatile system ensures connectors comply with global safety and performance standards.

APPLICATIONS

Standards Compliance

The ToronMed™ ARECCT02 Anesthetic & Respiratory Equipment Conical Connector Tester is designed in accordance with international standards, including:

- ISO 5356-1:2015 – Conical connectors for anesthesia and respiratory applications

Standard Configuration

- Main instrument unit
- 7-inch touchscreen interface

- Micro printer
- Gas and liquid reservoirs
- Professional cone chuck fixture



Why Choose Anesthetic & Respiratory Equipment Conical Connector Tester – ToronMed™ ARECCT02?

The Anesthetic & Respiratory Equipment Conical Connector Tester – ToronMed™ ARECCT02 combines precision, safety, and compliance for comprehensive connector testing. Suitable for medical device manufacturers, R&D centers, and quality control labs, this system streamlines compliance testing by covering multiple performance parameters in a single platform.

With intelligent control, GMP-compliant data management, and robust design, the Anesthetic & Respiratory Equipment Conical Connector Tester is an essential solution for ensuring the safety and reliability of respiratory and anesthesia equipment.

FEATURES

- **Safety-Oriented Design**
Magnetic shield around the rotating roller and a slip ring between torque sensor and roller guarantee accuracy and operator protection.
- **High-Accuracy Measurement**
American-imported load cell achieves measurement accuracy of up to 0.5% FS.
- **7-Inch Color Touchscreen**
Intelligent data processing with real-time display of curves and test data.
- **Automatic Calibration & Memory**
Easy calibration with power-down memory to protect data and maintain workflow.
- **Wide Compatibility**
Supports testing of various conical connector specifications across anesthesia and respiratory systems.
- **Advanced Data Management**
Stores up to 100,000 test records. GMP-compliant software includes user management, authority management, and audit tracking.

- Next-Generation Processing
Built with the latest Arm chip system for faster and more intelligent operation.

THEORY & METHOD

Test Principle

The Anesthetic & Respiratory Equipment Conical Connector Tester applies axial force, torque, positive and negative pressures, and internal water pressure to connectors used in respiratory and anesthesia systems. It measures sealing reliability, leakage resistance, and mechanical strength, providing objective compliance evaluation against international standards.

TECHNICAL SPECIFICATIONS

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

Specification	Value
Net Weight	28 kg



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