



SLT-02 Syringe Leak Tester

Application

The prevention of air leakage past the syringe plunger stopper during aspiration is crucial to ensure accurate dosing and patient safety. If air leaks into the syringe, it can introduce air bubbles into the medication, which could lead to complications such as air embolism or incorrect medication delivery. A secure seal is vital for maintaining the precise volume of fluid being drawn into the syringe, ensuring that the right amount of medication is administered to the patient.

The separation of the plunger stopper from the plunger can compromise the syringe's functionality, making it impossible to expel fluid or create a proper seal. If the stopper detaches during use, it could lead to the failure of the syringe, potentially causing incomplete injections or even dangerous medication errors. Ensuring the stopper remains securely attached to the plunger is essential for the syringe to perform its intended function reliably and safely throughout its use.

Test Principle

The syringe nozzle is connected to a compatible connection pipe and the syringe partially filled with water. A negative pressure is applied through the nozzle, and the syringe inspected for leakage past the plunger stopper and seal(s) and to determine if the plunger stopper becomes detached from the plunger.

System

The SLT-02 Syringe Leak Tester is composed of a control machine with a support and tube for fixing the syringe. After compressed air is introduced into the control unit, working by the venturi tube, the system will create a controlled vacuum in the syringe.

Technical Features

1. Stable vacuum holding
2. Efficient vacuum generation
3. Adjustable fixture for different volumes of syringe
4. User-friendly and durable service life
5. Automatic process after test starts

Main Parameters

Test Range	0~-90KPa
Air Input	0.6~0.7 Mpa
Test Time	9999H
Power	220V

Standards: GB 15810, ISO 7886-1 Annex B (Test method for air leakage past syringe plunger stopper during aspiration, and for separation of plunger stopper and plunger)

Configuration

LT-02 Leak Tester control unit, Syringe Stand, Tube, power cord, fuse.

Related Models

- TS-01 Tubing Stiffness Tester
- BST-01 Ampoule Breaking Tester
- MPT-01 Medical Packaing Tester
- MST-01 Medical Syringe Tester



The Company reserves the right to update, modify, or amend this Catalog without prior notice.

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