

BST-16031 Burst Strength Tester



Application

BST-16031 is suitable for bursting strength test of various kinds of foil, paper etc, especially in pharmaceutical and food industries.

Principle

BST-16031 is based on Mullen theory, the piston injects silicon oil into the chamber covered by plastic membrane which contacts with the test sample continuously until the sample bulges to break, the maximum pressure is just the result of bursting strength.

Features

- Embedded system, remote service
- Touch screen operation
- 8 inch TFT LCD display parameters and results
- Bilingual language display
- Sample pneumatic clamping
- Highly accurate pressure sensor inside
- Safety mask, body protection
- Test automatically starts and stops
- Micro-printer prints mini-report

- Test curve display
- Interface: WIFI, RS232
- Supports DSM system (DSM, lab data management system)

Technical indexes

1. Test range: 20-2,000kPa (2.8-300psi,0.21-20.4kgf/cm²)
2. Resolution: 0.1kPa
3. Error of reading: $\pm 1\%$
4. Fluctuation of Reading: $\leq 1\%$
5. Oil injection rate: (95 $\pm$ 5) ml/min
6. Sample clamping pressure: 0~1400kPa, Adjustable
7. System leakage: <10%P max @ 1min
8. Upper clamp plate hole size: (30.5 $\pm$ 0.05)mm
9. Lower plate hole size: (33.1 $\pm$ 0.05)mm
10. Plastic membrane thickness: (0.86 $\pm$ 0.06)mm
11. Plastic membrane resistance: (30 $\pm$ 5)kPa @ Bulge (9 $\pm$ 0.2)mm
12. Frequency of test: 10 times/65 seconds
13. Gas supply: Air, 0.6MPa-0.8MPa (self-provide)
14. Gas consumption: 0.4m³/h
15. Dimension: 380mm ×240 mm ×530 mm
16. Power supply: AC220V 50Hz
17. Net weight: 33kg

Standard

ISO 2759, TAPPI T807, TAPPI T810, GB/T1539, GB/T454, QB/T1057, YBB00152002-2015

Configuration

Standard configuration: Mainframe, silicon oil(1 bottle), plastic membrane, height gage, communication cable, calibration plug.

Optional: Micro-printer paper, DSM system.

Note: Specifications are subject to change without prior notice.