

digibURST II™(Pneumatic)

INTRODUCTION

Textile fabrics having no particular directions cannot be tested its strength in tensile testers; a multidirectional force generated by hydrostatic pressure is applied on fabric to check the strength of that fabric, this phenomenon is called bursting strength testing. Paramount digiBURST II™ (Pneumatic) is specially designed to perform the bursting strength testing of knitted fabrics, with pneumatic control. It can also be used for leather, paper & card Boards etc.

EQUIPMENT

Paramount digiBURST II™(Pneumatic) has pneumatically controlled clamps to hold the fabrics with precision. This latest technology of clamping the sample gives maximum accuracy in result. A circular diaphragm of synthetic rubber of 1.8mm is clamped between the lower clamping plate & pressure cylinder so that before the diaphragm is stretched by pressure underneath it the center of its upper surface is below the plane of the clamping surface.

The equipment is fitted with a motor driven cam mechanism, which increases fluid displacement on the lower side of the diaphragm at a specified rate. The equipment has an arrangement, which automatically brings down the pressure and stops the motor on completion of the test cycle. A digital, microprocessor-based control panel with digital display of peak value & zero setting option. The equipment is beautifully finished in Blue Metallic paint for modern aesthetics

SALIENT FEATURES

- Specially designed Pneumatically control equipment to determine bursting strength of knitted fabrics.
- Latest design with digital control panel.
- Maximum capacity 70kgs.
- Pneumatically control sample-clamping system for error free test result.
- Smooth precision engineered components for excellent performance.
- Complete with all accessories including calibrated aluminum foil for calibration.
- Supplied with calibration & inspection certificates.

digibURSTII™ (Pneumatic) is supplied complete with below accessories.

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| Main Unit | : 01 No. |
| Air Compressor Unit | : 01 No. |
| Synthetic Rubber Diaphragms | : 05 Nos. |
| Diaphragm Unit Tightening wrench | : 01 Nos. |
| Air Pipe (To connect with compressor) | : 01 No. |
| Calibrated Aluminum Foil for Calibration with Traceable Certificate | : 01 No. |
| S.S.Clamp's for Fixing the Air Pipe. | : 02 Nos. |
| This User's Manual | : 01 No. |
| Calibration Certificate (Traceable to NPL) | : 01 No. |
| Inspection & Conformance Certificate | : 01 No. |



TECHNICAL DETAILS

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| Equipment Bursting Capacity | : 70kg/cm ² |
| Opening in upper clamp | : 31.5 mm diameter |
| Opening in lower clamp | : 30.5 mm diameter |
| Rate of fluid displacement | : 95 cc/minute |
| Test fluid | : Glycerin |
| Glycerin Capacity | : 160 ml. |
| Geared Motor | : 1/4 HP, 60 RPM ,Single Phase AC |
| Pressure Sensor | : Pressure Transducer Sensor |
| Least count of sensor | : 0. 1 kg. |
| Pneumatic Pressure | : 7-8 Kg/Cm (Required) |
| Power Supply | : 230 ± 10 % Volt, 50 Hz, Single Phase AC |
| Compressor Specification | : 5kg/cm ² |
| Dimensions of the Instrument | : 660 (L) x 585 (W) x 508 (H) mm 26" (W) x 23" (D) x 20" (H) Inch |
| Net Weight of the Instrument | : 100 Kg. (Approx.) (220 lbs) |

RELATED STANDARDS

ASTM 3786 / ASTM D 774

REFERENCE STANDARDS

ISO 2758/2759/3303/3689
BS 3424/3137



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