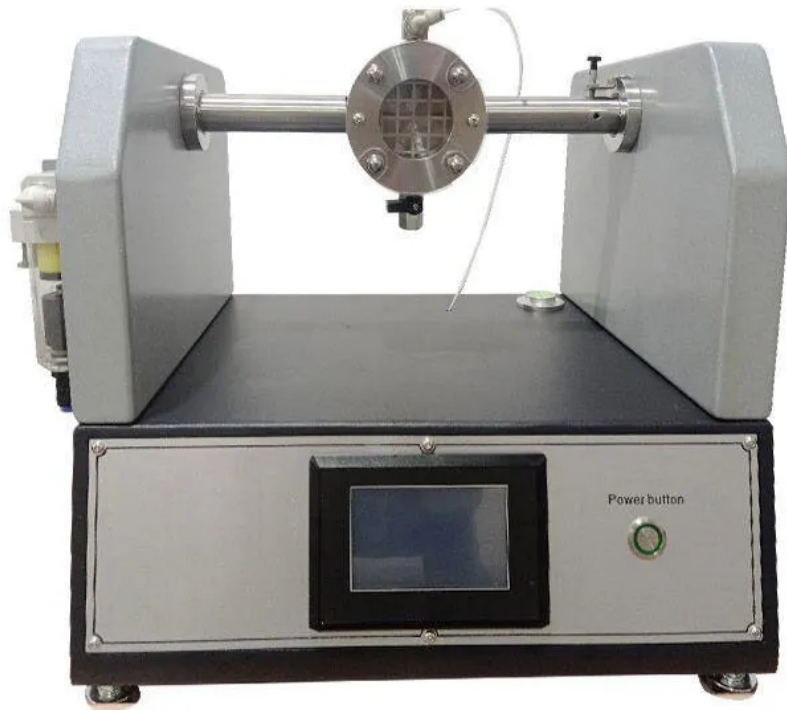




# PROTECTIVE CLOTHING BLOOD PENETRATION RESISTANCE TESTER

Protective Clothing Blood Penetration Resistance Tester ToronPC™ BPRT evaluates how well protective clothing materials resist penetration by synthetic blood.

## APPLICATIONS

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### Standards

1. ASTM F903: Specifies the test method to measure the resistance of protective clothing materials to penetration by liquids (chemicals) under conditions of continuous liquid contact.
2. ISO 16603: Determines the resistance of protective clothing materials to penetration by blood and body fluids using a synthetic blood simulant under specified conditions of pressure.
3. IS 16545: An Indian Standard derived from ISO 16603 that establishes the procedure for evaluating the resistance of PPE materials to synthetic blood penetration.
4. ASTM F1670: Evaluates the resistance of materials used in protective clothing to penetration by synthetic blood under constant liquid contact, often used as a precursor to viral testing.
5. ASTM F1671/F1671M: Measures the resistance of materials to penetration by bloodborne pathogens using the Phi-X174 bacteriophage as a test system under continuous liquid contact.

6. ISO 16604: Determines the resistance of protective clothing materials to penetration by bloodborne pathogens using a viral challenge (Phi-X174 bacteriophage) and a specific pressurized test apparatus.
7. IS 16546: An Indian Standard equivalent to ISO 16604 that outlines the test method for determining the resistance of protective clothing materials to penetration by bloodborne pathogens.

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## FEATURES

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The Protective Clothing Blood Penetration Resistance Tester ToronPC™ BPRT offers advanced functionality and precise testing capabilities:

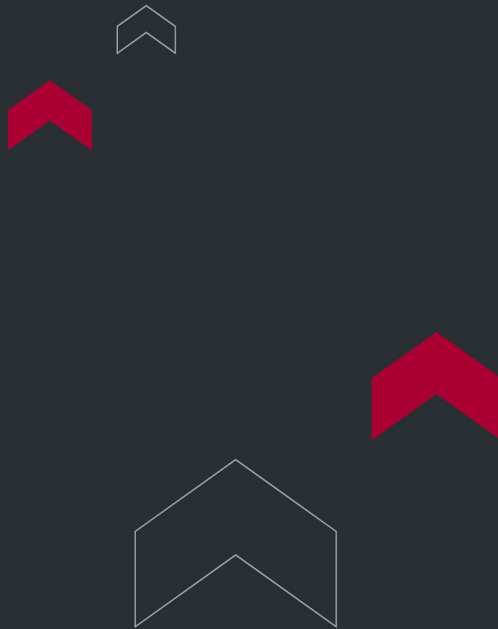
1. Available with one or four working positions, allowing simultaneous testing of up to four specimens.
2. Features single-chip microcomputer control for automatic timing, operation, and alerts upon test completion.
3. Equipped with a mechanical pressure meter for easy verification.
4. Includes a touchscreen interface (HMI) for real-time monitoring of pressurized pressure.
5. Each working position has an independent pressure monitoring display.

6. Utilizes a programmable throttle valve to ensure the pressurization rate does not exceed 3.5 kPa/s.
7. Specimen installation is simplified with a 13.6 N·m ratchet wrench, offering precise and controllable torque.

## TECHNICAL SPECIFICATIONS

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| Model              | ToronPC™ BPRT-1                                                  | ToronPC™ BPRT1-4 |
|--------------------|------------------------------------------------------------------|------------------|
| Working position   | 1                                                                | 4                |
| Specimen dimension | 75mm x 75mm<br>Compressed cross-section diameter: Φ 57mm         |                  |
| Retardation mesh   | 304 Stainless Steel<br>Open space ≥ 50%<br>Curve ≤ 5mm at 14 kPa |                  |
| Air supply         | Compression air                                                  |                  |
| Fixture torque     | 13.6 N·m                                                         |                  |
| Air supply         | ≥ 0.4 kg/cm <sup>2</sup>                                         |                  |
| Standard accessory | Digital Torque Wrench, 1 set                                     |                  |



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