



CATHETER FLOW RATE AND PRESSURE TESTER FOR POWER INJECTION

ISO 10555-1

Catheter Flow Rate and Pressure Tester for Power Injection ToronMed-CFRPT01 is a high-performance testing instrument designed to measure the flow rate and pressure of medical sterile catheters during power injection. Using a high-pressure hydraulic testing method, it applies constant water pressure to the catheter sample and maintains it for a set period to ensure precise, repeatable results.

This tester is ideal for evaluating catheter performance under real-world simulated conditions and is suited for use in medical device manufacturing, quality control laboratories, and R&D environments.

APPLICATIONS

Enhanced User Experience

- 7" Full-Color Touchscreen – Intuitive operation with intelligent data processing.
- Automatic Calibration – Streamlined test setup and increased accuracy.
- Custom Test Parameters – User-defined test functions, data analysis, and reporting.
- Large Data Storage – Stores up to 100,000 test records with power-down memory.
- GMP-Compliant Data Security – Four-level password protection, user management, and audit trail.

Applications

- Flow rate and pressure testing during power injection of central venous catheters
- Testing balloon dilatation catheters under power injection conditions

- Flow and pressure performance evaluation of peripherally inserted catheters (PICC lines)



Applicable Standards

- ISO 10555-1 – Intravascular catheters for single use – General requirements

Why Choose ToronMed-CFRPT01 Catheter Flow Rate and Pressure Tester for Power Injection?

With its dual testing capabilities, advanced safety systems, and precise control over temperature, pressure, and flow, the ToronMed-CFRPT01 provides unmatched reliability for catheter performance evaluation. It is the ideal solution for manufacturers and laboratories seeking accurate, compliant, and efficient catheter testing.

FEATURES

Key Features

- Dual Testing Modes – Supports both constant pressure and constant flow rate testing.
- Integrated Temperature Control – Maintains test liquids at required temperatures for accurate simulation.
- Self-Developed Liquid Booster Pump – Stable, air-source-free operation for consistent performance.
- Versatile Testing Compatibility – Replaceable connecting tubes and standard Luer interface accommodate various catheter types and sizes.
- High-Pressure Capability – Built-in stainless steel piping and high-pressure solenoid valve support tests up to 10 MPa (1400 psi).
- Safety-Oriented Design – Includes splash protection, over-pressure shutdown, and emergency stop features.

- Data Connectivity – RS232 interface for PC connection and data export.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Test Range	0 ~ 10 MPa (1400 psi)
Pressure Sensor Accuracy	0.5% FS
Flow Rate	0 – 40 ml/s
Test Methods	Constant flow rate & constant pressure (supports 5 catheter parameter settings)
Constant Flow Rate	Max 40 ml/s
Constant Pressure	Max 1400 psi
Test Volume	230 ml
Water Bath Temperature Control	RT+5°C ~ 100°C
Temperature Deviation	±0.5°C
Dimensions	Main: 540×400×425 mm Booster: 280×265×750 mm Water Bath: 500×285×340 mm Protective Device: 650×140×245 mm
Voltage	AC 220V 50Hz / 120V 60Hz
Net Weight	45 kg



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