



TORONTECH

PRESSURE & VALVES TESTING SYSTEM



Pressure & Valves Testing System

Pressure control devices and valves are integral to every fire protection system — governing flow rates, maintaining operating pressures, and ensuring that water or suppression agent is delivered precisely where and when it is needed. Whether installed in fire hydrant networks, sprinkler systems, or suppression agent pipelines, valves and pressure regulators must perform reliably over decades of service and on-demand under emergency conditions.

The Torontech ToronFT™ Pressure & Valves Testing Equipment provides a focused suite of specialist apparatus covering the hydraulic performance, mechanical endurance, electrical control function, and dielectric safety of pressure and valve assemblies used in fire protection applications. The range addresses both outdoor hydrant-side and indoor plug-type components, and encompasses the growing category of electrically actuated valves that are increasingly specified in modern intelligent fire suppression systems.

APPLICATIONS

Applications & Industries

The ToronFT™ Pressure & Valves Testing Equipment is used by organisations across the following sectors:

- Valve & Pressure Regulator Manufacturers: product development, production QC, and multi-standard type-approval testing
- Fire Hydrant System Manufacturers: outlet bolt and plug assembly performance qualification

- Motorised & Electrically Actuated Valve Manufacturers: control function, endurance, and electrical safety verification
- Third-Party Testing & Certification Laboratories: independent valve testing for ISO 5208, EN 1074, UL 262, and national approval programs
- Fire Protection Engineering Consultancies: component performance data for system hydraulic design and actuator specification
- Building Services Contractors & Installers: commissioning acceptance testing of pressure-regulating devices and zone valves
- Water Utilities & Municipal Fire Services: incoming inspection and periodic re-qualification of hydrant outlet valves

FEATURES

Why Choose the ToronFT™ Pressure & Valves Testing Equipment?

Our Advantage	What That Means for You
Hydraulic & Flow Performance Coverage	From pressure regulation accuracy in outdoor bolt assemblies to plug-type pressure loss characterisation for indoor systems, the ToronFT™ range provides the hydraulic performance data needed to verify that valves and outlets deliver specified flow and pressure conditions under fire demand scenarios.
Electrical Safety & Control Verification	The Valve Electric Control Function Tester and Voltage Withstand Tester address the growing prevalence of motorised and electrically actuated valves in modern fire systems — verifying actuation reliability, response time, fail-safe behaviour, and dielectric strength to electrical safety standards.
Mechanical Endurance Testing	The Valve Working Reliability Tester subjects valve assemblies to programmatic open-close cycles under rated pressure conditions, confirming operational integrity over the full service life of the product — a key requirement for listing and approval submissions.
Stem Load & Actuator Sizing Data	The Valve Stem Lifting Performance Tester measures the thrust and torque required to operate gate and globe valves against pressure, providing the precise mechanical data needed for correct actuator selection and system design.
Standards-Aligned Test Protocols	Apparatus are designed to address test requirements defined in ISO 5208, EN 1074, EN 13076, UL 262, and equivalent national standards for industrial and fire protection valves — supporting certification across multiple markets from a single test laboratory.

Our Advantage	What That Means for You
Integrated Test System Design	The six apparatus in the ToronFT™ Pressure & Valves range are designed to operate as a cohesive test system. Torontech engineers can assist with laboratory layout, water supply infrastructure, and data acquisition integration to create an efficient, fully capable valve testing facility.



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