



TORONTECH



FIRE HOSE REEL SEALING AND PRESSURE TESTER

Fire Hose Reel Sealing and Pressure Tester — ToronFT™ FH-SPT

ToronFT™ FH-SPT Fire Hose Reel Sealing and Pressure Tester is a comprehensive multi-module testing system for the performance verification of fire hose reels used with water, dry powder, and foam fire extinguishing agents.

The apparatus evaluates sealing performance, pressure resistance, outer diameter expansion rate, and axial elongation of hose reels under controlled hydraulic and pneumatic conditions. Rated for hose diameters up to 38 mm and maximum working pressures up to 4.0 MPa, the ToronFT™ FH-SPT meets the rigorous demands of both production quality control and certification testing.

APPLICATIONS

Fire Hose Reel Sealing and Pressure Tester — ToronFT™ FH-SPT Applications

The ToronFT™ FH-SPT is used for:

- Sealing performance testing of fire hose reels under pressurized conditions
- Pressure resistance verification of fire hose assemblies
- Outer diameter expansion rate measurement under hydraulic pressure
- Axial elongation measurement of fire hoses under internal pressure
- Compatibility testing with water, dry powder, and foam extinguishing agents
- Production line QC and third-party certification testing



FEATURES

Fire Hose Reel Sealing and Pressure Tester — ToronFT™ FH-SPT Key Features

- Integrated system: hydraulic test bench, pneumatic test bench, hose performance Tester, and control module
- Hydraulic test bench pressure range: 0–15 MPa
- Boost rate: 5–10 MPa/min (adjustable) for precise pressurization control
- Maximum applicable working pressure: 4.0 MPa
- Maximum hose diameter: 38 mm
- Evaluates sealing, pressure resistance, outer diameter expansion rate, and axial elongation
- Compatible with water, dry powder, and foam fire extinguishing agents
- Centralized digital control system for automated test sequencing and data logging

THEORY & METHOD

Theory and Method

The Tester integrates three functional modules: a hydraulic test bench, a pneumatic test bench, and a hose performance Tester, all governed by a central control module. The hydraulic test bench applies water pressure up to 15 MPa, with boost rates adjustable from 5–10 MPa/min, enabling controlled static and dynamic pressure loading.

The pneumatic test bench supplements sealing and leakage testing using compressed air. The hose performance module monitors outer diameter change and axial elongation during pressurization, capturing dimensional data for compliance evaluation. All results are recorded and reported by the integrated control system, enabling automated test sequencing and data management.

TECHNICAL SPECIFICATIONS

Fire Hose Reel Sealing and Pressure Tester — ToronFT™ FH-SPT Technical Specifications

Parameter	Specification
Model	ToronFT™ FH-SPT
Instrument Composition	Hydraulic test bench, pneumatic test bench, hose performance tester, control module
Hydraulic Test Bench Pressure Range	0-15 MPa
Boost Rate	5-10 MPa/min (adjustable)
Maximum Working Pressure	4.0 MPa
Maximum Hose Diameter	38 mm
Test Parameters	Sealing performance, pressure resistance, OD expansion rate, axial elongation
Applicable Agents	Water, dry powder, foam



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