



DRY FLO

**WATERLESS FIRE PROTECTION
PERFORMANCE TEST &
INSPECTION TECHNOLOGY**

DIGITAL. SYSTEM COMPLIANCE. VERIFICATION.

PARADIGM

DRY-FLO® PERFORMANCE TESTING

We pride ourselves as a leading technology-driven Service Company developing innovative, cost-effective solutions to short and long-term disruptions affecting asset integrity, production efficiencies and the environment.

Wet testing has long been an industry-accepted method of ensuring compliance with standards and regulatory requirements. However, conventional wet testing introduces multiple issues, from immediate disruption such as an unplanned shutdown due to water ingress into an electrical system to longer-term impacts caused by excessive corrosion impacting the suppression system and the asset under protection.

We looked to address these problems by removing water from the testing process altogether.

Dry-Flo was developed as a valid substitute to wet testing practices having the ability to digitally test, inspect and record fire suppression system performance without firewater saturation to the active fire zone, plant or process area.

Dry-Flo, patented technology, uses controlled airflow, pressure sensors, and proprietary software to accurately test, verify, map and record the performance of a fire suppression system.

Our equipment and software package processes this information live so the operator can quickly identify the condition of a system. In case of anomalies Dry-Flo software identifies issues within the system providing location, allowing technicians to inspect and remediate as necessary.

Paradigm developed Dry-Flo to solve one of industry's great paradoxes; testing water based fire protection systems, without water.

It matters because water deluge testing contributes to corrosion related fabric maintenance spending.

It matters because water testing increases corrosion scaling, induce electrical disturbance, and promote microbiologically induced corrosion, creating blockage in pipes and nozzles, stopping it from delivering what is needed when it is needed; reducing the asset safety.

Enhance your fire protection system safety and reliability by using Dry Flo.

**SAFETY COMPLIANCE
BY TECHNOLOGY**



DNV CERTIFIED TECHNOLOGY

- Dry-Flo facilitates verification and compliance to relevant standard such as NFPA
- Dry-Flo provides empirical evidences required by regulatory authorities
- Dry-Flo identifies and qualifies system performance anomalies
- Dry-Flo testing can substitute wet testing for up to 10 years

DRY-FLO	VS	WET TESTING
DIGITAL INSPECTION AND COMPLIANCE TEST	•	VISUAL INSPECTION OF NOZZLE PERFORMANCE
CERTIFIED WATERLESS TECHNOLOGY	•	CREATES ENVIRONMENT THAT STIMULATES CORROSION
PERFORMED WHEN DELUGE SYSTEM IS LIVE	•	IMPACT AND DISRUPTION TO NORMAL OPERATIONS
VIRTUAL FLOW EQUIVALENTS	•	MANUAL SOCK & PAN FLOW TEST
REAL TIME DATA ACQUISITION, RECORDABLE, CONDITION MONITORING AND REPORTING	•	LACK OF VISIBILITY FROM WATER SPRAY PLUS TRIP HAZARDS THROUGH POOLING WATER



SPECIFICATIONS

- Patented dry fire suppression testing system
- DNV certified technology

TECHNICAL OVERVIEW

Dry-Flo waterless deluge compliance test and inspection technology uses controlled low-pressure air plus strategically positioned sensors to capture and monitor any anomalies in a fire protection system, enabling:

- Digitalization of fire suppression system
- Enhanced system interrogation and verification
- Identify nozzles & sections that are failing

APPLICATION

- Tunnels
- Mining
- Ferries
- Oil and Gas facility (onshore / offshore / FPSO / FLNG)
- Petrochemical plants
- Power Plants

VIRTUAL FLOW EQUIVALENT

- Virtual flow in litres per minute determined at multiple control reference points (where required)

BENEFITS

- Improved system data feedback and increase safety
- No new corrosion, growth, salt added to the system by removing the need for water
- No requirement to bag equipment from water spray
- Reduce or eliminate waste water
- No fire suppression system size limitation
- Testing can be done on a live system, removing disruption or interruption of the protected equipment
- Residual water if any from former tests is blown out of the fire protection system
- Overall Dry-Flo testing is shorter than traditional wet testing.
- Results can be compared with original asset flow requirement and simulation where required
- Pinpoint location of issues within the fire suppression system

PARADIGM TOTAL DELUGE SERVICES

RESTORE INTEGRITY AND ENABLE LASTING COMPLIANCE

- ▶ Comprehensive surveys and NFPA25 inspection services
- ▶ Boroscope internal piping condition and obstruction investigations
- ▶ Remediation and impairment services, including hydro jetting, pipe and nozzle replacement / installation and temporary fire cover
- ▶ Wet and Dry-Flo® test, inspection and commissioning services
- ▶ IRATA level 3 rope access teams with global reach
- ▶ Engineering services: hydraulic modelling, design versus as-built verification, system upgrades and extensions
- ▶ Deluge and foam system inspection, test and maintenance
- ▶ Fire Pump inspection, test and maintenance

Visit the
Dry-Flo®
Experience Center

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Please note that Dry-Flo® technology and components are patent protected.

PARADIGM SHIFT. **SHIFT TO PARADIGM.**