

## FireLock NXT™ Automatic Valve Systems



### DEVICE TYPES

- Dry
- Deluge Electric
- Deluge Dry Pilot
- Deluge Wet Pilot
- Preaction Electric
- Preaction Single Interlock Pneumatic
- Preaction Non-Interlock Pneumatic
- Preaction Double Interlock Pneumatic/ Electric
- Preaction Double Interlock Pneumatic

### TRIM CONFIGURATIONS

- Bare
- Pretrimmed
- Vic-Quick Riser



Piping. Systems. Solutions.

FireLock NXT valve systems

- lower operating pressure requirements
- ultra-fast trip time and water delivery
- reduced trim footprint
- easy to install, service and maintain
- fewer internal moving parts
- light-weight design
- eliminates air-to-water differential
- simplified trim configurations
- lowest friction loss
- robust diaphragm

New design requires less time and labor for installation resulting in

- reduced project costs
- out-of-the-box installation\*

\* Vic-Quick Riser package ships ready to install with all trim pre-assembled and preset for air pressure at 13 psi/.89 Bar

**note:** In some regions, valve body is painted red instead of black.



FireLock NXT Series 768 dry valve shown



FireLock NXT Series 768 dry systems  
Ottawa, CANADA

## Design innovation inside and out.

- Consistent valve body design for all applications
- Simplified trim configurations for ease of maintenance
- Eliminated air-to-water differential speeds installation and setup



### AIR FEED MANIFOLD

- one-piece design reduces footprint
- mounted high to improve airflow and simplify maintenance



### PRESET AIR SUPERVISORY PRESSURE SWITCH

- factory set for high and low air alarms at 20 psi and 10 psi
- designed to work with Series 776 low pressure actuators
- designed specifically for the FireLock NXT dry and alternate (wet/dry) devices



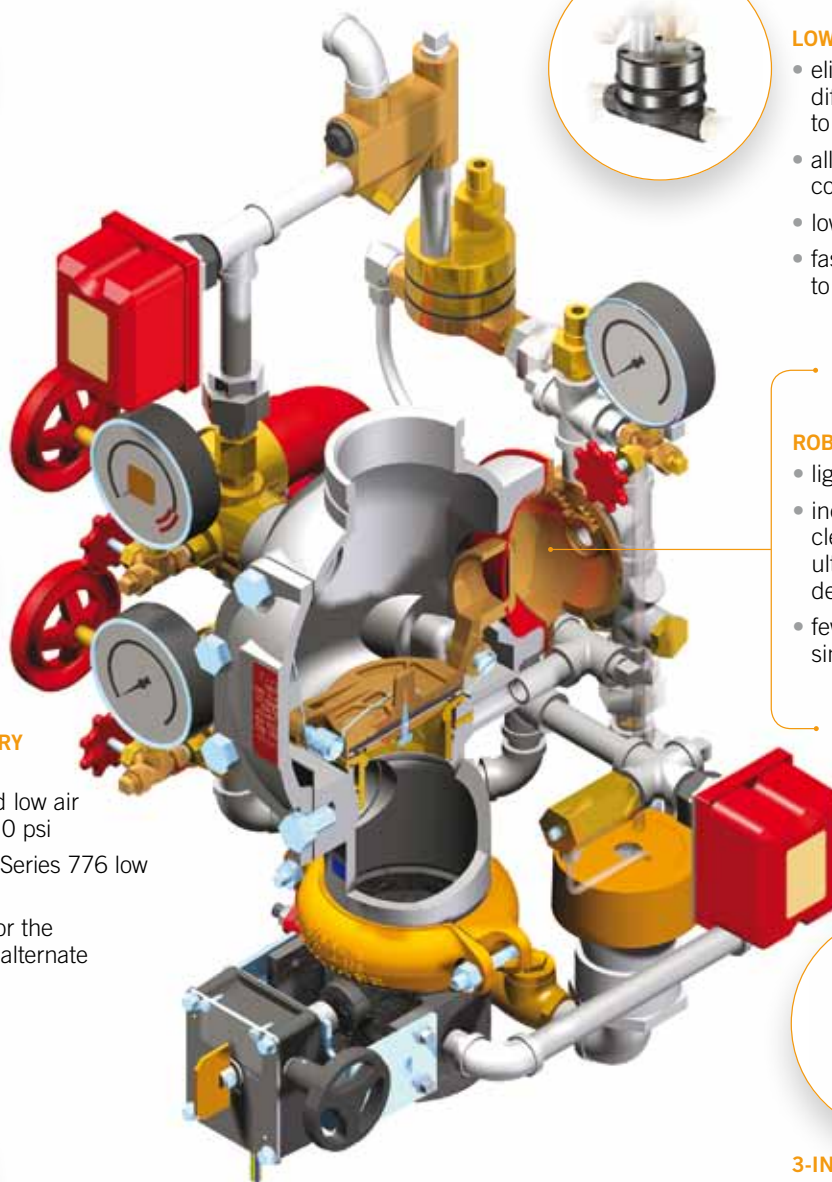
### VIC®-QUICK RISER

- fast installation
- only connection to air and drain line



### LOW-PRESSURE ACTUATOR

- eliminates air-to-water differential, set air pressure to 13psi/.89BAR
- allows a smaller air compressor to be used
- lower moisture content
- faster water delivery to sprinklers



### ROBUST DIAPHRAGM

- lighter, simpler design
- increased opening clearance allows ultra-fast water delivery when tripped
- fewer moving parts simplifies maintenance



### 3-IN-1 DEVICE

- check valve, strainer, restrictor combined
- helps to reduce the device footprint to the smallest in the industry

## FireLock NXT System Configurations

### Dry System – Series 768

- For applications where piping may freeze such as unheated warehouses, outdoor parking garages or stadiums
- Operating Pressure up to 300 psi/ 2065 kPa
- Consult Submittal Publication 30.80



### Deluge System – Series 769D

- For applications where water curtains and fast water delivery are required such as highly-flammable material storage facilities or airplane hangars
- Operating Pressure up to 300 psi/ 2065 kPa
- Consult Submittal Publication 30.81



### Preaction System – Series 769P

- For applications where redundant safeguards against system activation are required such as priceless art storage, libraries or data centers
- Several trim configurations are available to accommodate a range of pneumatic and electric activation methods
- Operating Pressure up to 300 psi/2065 kPa
- Consult Submittal Publication 30.82



### Alternate (wet/dry) System – Series 764

- For applications where seasonal changes allow for wet piping at certain times of the year such as storage facilities that do not need to be heated all year long
- Easy conversion from wet to dry in minutes
- Operating Pressure up to 300 psi/2065 kPa
- Consult Submittal Publication 30.83



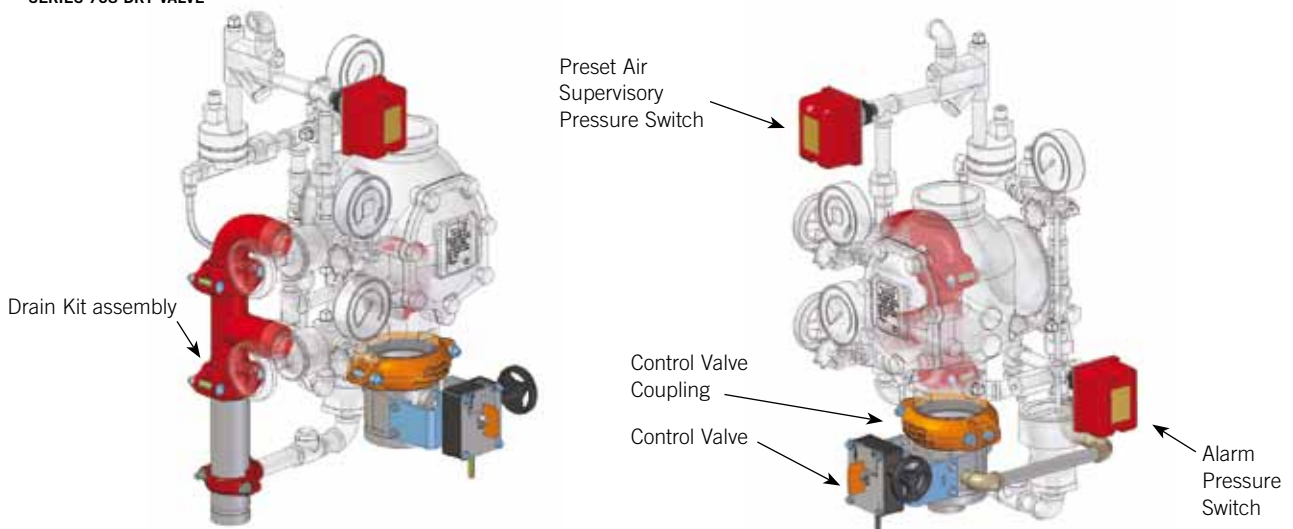
## Fast Dependable Installation

All FireLock NXT devices can be ordered with the Vic-Quick Riser. This includes the drain kit, preset air supervisory and alarm switches, control valve and coupling to mount to the riser.

- ready to install right out of the crate
- preset air supervisory pressure switch, no need for field adjustment
- easy access to clapper seal via removable face plate
- all components are pre-calibrated for the single set point of 13 psi/0.89 Bar

### FireLock NXT Dry Valve shown with Vic-Quick Riser Trim Kit\*

SERIES 768 DRY VALVE



\* Shadowed trim material shown is included with standard pre-trimmed valves or in standard trim kits ordered separately.



### Fire-Pac – Series 745

This compact cabinet includes a pre-assembled fire protection valve, trim and support piping as well as all electrical connections to provide fast and easy self-contained installation. Side panels are removable for ease of access and maintenance. Consult submittal publication 30.23 for additional information.

All electrical enclosures are UL Listed and all materials and wiring conform to NFPA requirements; CSA wiring for Canada available upon request.

Sizes from 1½" – 6"/40 – 150 mm for the following configurations:

- Dry
- Deluge – wet pilot, dry pilot, electric actuation
- Preaction – non-interlock, single interlock and double interlock

## Optional Accessories



### Series 746-LPA Low Pressure Accelerator

In larger dry and preaction systems, the Series 746-LPA can sense a rapid decay of system pressure from an opened sprinkler head and activates, venting the air more rapidly and causing the valve to operate.

This accelerator is self-contained and attached easily to the existing dry or preaction device. UL Listed and FM Approved to 300 psi/2065 kPa for use with all FireLock NXT Series 768 dry and Series 769 preaction valves. Consult submittal publication 30.64.



### Series 7C7 Compressor/Air Maintenance Assembly

The Series 7C7 compressor and air maintenance assembly is self-contained, compact and riser-mounted for all FireLock NXT systems.

The Series 7C7 is used to achieve operational air pressure within 30 minutes of discharge, in accordance with NFPA 13 (7.2.6.2.2). Assembly includes the UL Listed, FM Approved Series 757P Air Maintenance Device. Consult submittal publication 30.22.



### Series 760 Water Motor Alarm

This mechanical, water-powered alarm signals the flow of water to the sprinkler system. Consult submittal publication 30.32.



### Series 757 Air Maintenance Trim Assembly

This assembly maintains the system air pressure and includes a pressure-reducing air regulator, strainer, restrictor, in-line check valve and fast-fill line to restore system air pressure. Consult submittal publication 30.35.



### Series 757P Air Maintenance Trim Assembly with Pressure Switch

This assembly also maintains system air pressure, while including a pressure control switch operated by the system air pressure and factory preset to the FireLock NXT 13 - 18 psi operating range. Consult submittal publication 30.36.

## Case Studies



### Dallas Cowboys Stadium

**Project:** Cowboys Stadium, Arlington, Texas, USA

**Fire Protection Products:** FireLock NXT devices, alarm valves, couplings, fittings, sprinklers

**Project Scope:** Opening in 2011, this up to 100,000 seat retractable-roof stadium covers more than 2.3 million square feet. Greg Lee, DFW Fire, has made a two-year commitment to the project. "With over 70 distinct fire protection systems throughout the stadium, the breadth of the Victaulic line was key," he notes. "The FireLock NXT with the Quick-Riser provided significant time and cost savings."



### Preferred Freezer

**Project:** Preferred Freezer, Chesapeake, Virginia, USA

**Fire Protection Products:** FireLock NXT Series 768 dry and Series 769 preaction devices, alarm valves, couplings, fittings, sprinklers

**Project Scope:** Storage space with in-rack and overhead sprinklers. A very tight install schedule required a fast, easy, dependable product. The Vic-Quick Riser made it possible to keep up with the rigorous time requirements and saved an estimated three days of labor overall.



### Cafferata Fireworks

**Project:** Cafferata Fireworks, Nistelrode, The Netherlands

**Fire Protection Products:** FireLock NXT Series 769 deluge valves. Also, butterfly and check valves, couplings, fittings and sprinklers

**Project Scope:** 22 separate storage bunkers were each outfitted with a FireLock NXT deluge system. The light weight and compact installation footprint were key benefits for this installation as the valves were mounted to the wall approximately 8 ft/2.5 m in the air.





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