

tyco

*Fire & Building
Products*



Quell™ Fire Sprinkler System



a vital part of your world

ENGLISH

Introducing the new Quell™ Fire Sprinkler Systems

The Quell™ Fire Sprinkler System is the first of its kind for **cold storage, outdoor and unheated warehouse facilities**. In terms of performance, the Quell™ Fire Sprinkler System effectively addresses a fire with a volume of water with a “surround and drown” configuration to rapidly reduce the heat release rate. This fire protection approach minimizes damage to storage facilities and valuable goods.

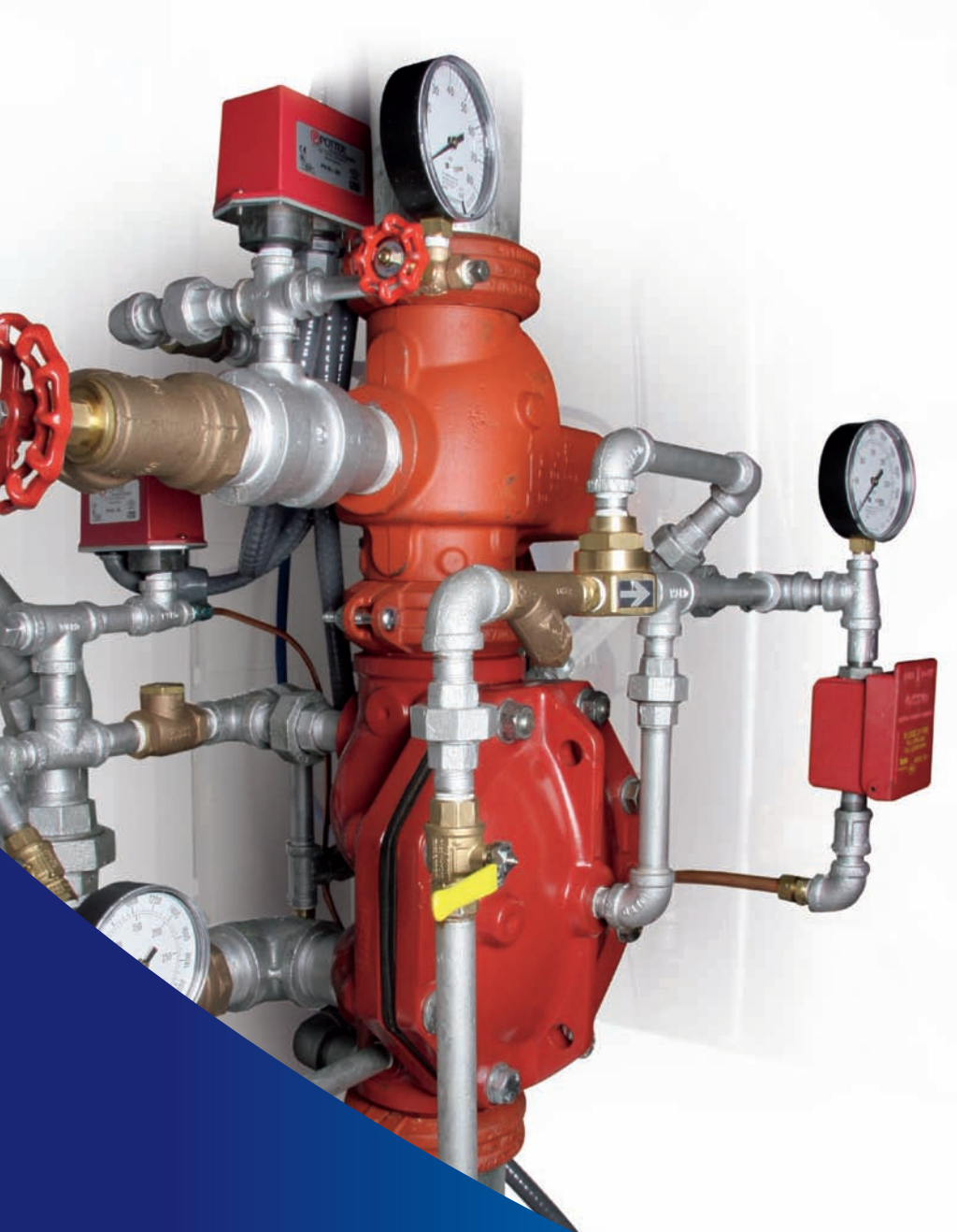


Why the Quell™ System is Different and Better

- **Does not require expensive antifreeze**, which can leak and damage storage commodities.
- **Ceiling-only coverage eliminates** costly in-rack sprinklers and increases storage array flexibility.
- Provides **fire protection** for Class I, II, III and group A plastic commodities.
- Provides the **lowest installation and maintenance costs**.
- Backed by the **industry's best 10-year limited warranty**.

Truly Innovative Fire Protection. True Bottom-Line Benefits.

The Quell™ System is the total cold storage/outdoor warehouse fire protection solution that delivers advantages in the areas at the top of facilities managers' wish lists: higher-level storage and added hazard configurations. Because the Quell™ System brings new benefits in both areas, this system provides true bottom-line benefits for your unheated storage facility. Now you're ready to stock more commodity classifications, achieve higher roof and storage heights, gain more flexible stocking configurations and reduce installation costs.



Components and Technical Specifications

Ultra K 17 141°C Sprinklers (242 K-factor)

- For use in accordance with Quell™ System design criteria (TFP371) and applicable NFPA and FM specific application installation criteria
- Provide higher level of protection than standard spray sprinklers
- Offer an economical advantage by eliminating the need for in-rack sprinklers



Ultra K 17 141°C Sprinkler

SprinkFDT-Q Software

- Allows sprinkler designer to accurately predict time to trip the Pre-Action Valve and deliver water to remote area
- Allows systems over NFPA's 2839 liter (750 gallon) volume restrictions to be installed with confidence in the performance



QRS Electronic Accelerator

DV-5 Pre-Action Valves

- Diaphragm-type automatic control valves
- Available in 1 1/2" through 8" valves
- Feature just one internal working part and external resetting feature for quick, easy maintenance
- Internal and external Rilsan® coated for corrosion resistance and use in harsh environments

Tri-Seal Gaskets for Grooved Pipe Couplings

- Designed specifically for cold environments to seal gap or gasket cavity in coupling at grooved pipe and fitting connections

QRS Electronic Accelerator

- Quick-opening device reduces operating time of Pre-Action Valve in double interlock, electric/electric preaction system
- Utilizes unique system air pressure monitoring device to continuously sample air pressure twice per second
- When air pressure is determined to have sustained drop exceeding rate of 6.9 mbar per second (verified by three consecutive samplings), QRS signals the Releasing Panel energizing the Solenoid Valve on the DV-5

Electric Releasing Panel

- Designed with four releasing circuits
- Recommended component
- Added dry contacts for associated alarm and/or equipment shut down
- Compatible with QRS Electronic Accelerator

Compressor

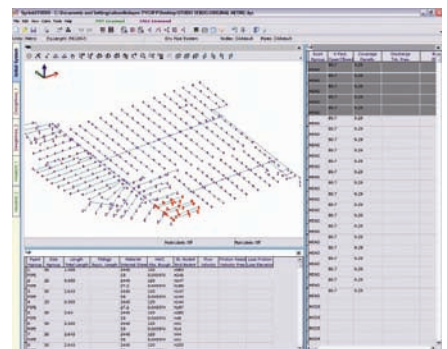
Use guidelines per NFPA13-2007 7.9 System Requirements for Refrigerated Spaces



DV-5 Pre-Action Valve

Model DV-5 Pre-Action E Cabinet

- Houses control and Pre-Action Valves, riser check valve, valve trim, QRS and releasing panel
- Recommended for systems eight inches and smaller
- Custom manufactured and professionally pre-assembled to radically reduce installation time and cost



SprinkFDT-Q Screen Shot



Tri-Sealed Grooved Gasket

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*Fire & Building
Products*

Headoffices:

Worldwide:

USA
Lansdale (PA)
Tel: + 1 215-362-0700
Fax: + 1 215-362-5385

Regional offices:

Europe / Middle East /
Africa (EMEA)
The Netherlands
Enschede
Tel.: +31 (0)53 4284444
Fax: +31 (0)53 4283377

Asia
Singapore
Tel: + 65 6861 1655
Fax: + 65 6861 1312

Subsidiaries EMEA

Austria
(Wien)
Tel: +43 (0)1 2710049
Fax: +43 (0)1 2710142

Belgium
(Mechelen)
Tel: +32 (0)15 285555
Fax: +32 (0)15 206076

France
(Paris)
Tel: +33 (0)1 48178727
Fax: +33 (0)1 48178720

Germany
(Rodgau)
Tel: +49 (0)6106 84455
Fax: +49 (0)6106 18177

Hungary
(Budapest)
Tel: +36 (0)1 4811383
Fax: +36 (0)1 2034427

Italy
(Nerviano)
Tel: +39 0331 583000
Fax: +39 0331 583030

The Netherlands
(Enschede)
Tel: +31 (0)53 4284444
Fax: +31 (0)53 4283377

Norway
(Lørenskog)
Tel: +47 67 917700
Fax: +47 67 917715

Spain
(Madrid)
Tel: +34 091 3807460
Fax: +34 091 3807461

Sweden
(Lammhult)
Tel: +46 (0)472 269980
Fax: +46 (0)472 269989

United Arab Emirates
(Dubai)
Tel: +971 48838689
Fax: +971 48838674

United Kingdom & Ireland
(Manchester)
Tel: +44 (0)161 8750400
Fax: +44 (0)161 8750490 (0491)