



Data Sheet UFS-110E

Rev 3.01 Page 1 of 2



SPRINKLER-PAC GENERATION 2 – DRY-PIPE VALVE

FEATURES

- Fully factory assembled and tested
- No field assembly required
- Just connect water supply, drain, and sprinkler piping
- Attractive and rugged metal enclosure
- Easy-to-see gauges on enclosure front
- Separate, lockable valve and electrical enclosures
- Space for required spare sprinkler heads and wrench
- UL / FM / NYC approved major components
- 1-1/2 through 6 inch valve options

BENEFITS

- Saves assembly and installation time
- Quicker commissioning – just place, connect, and it's ready
- Finished appearance allows placement in or near protected space
- Reliable, dependable protection that functions as designed
- Easy inspection and maintenance
- Expert in-house and field technical support

DESCRIPTION

The **UNITED Fire Systems SPRINKLER-PAC** is a fully assembled dry-pipe sprinkler valve fire suppression system, including dry-pipe valve and trim, providing one complete zone of dry-pipe water sprinkler fire protection. All components are contained in two (2) powder-coated steel enclosures assembled one above the other. The system pressure gauges are mounted on the front of the valve enclosure. The connections allowing monitoring of waterflow, tamper, and low / high air signaling switches are behind the electrical enclosure door. Lockable latches on both doors permit restricted access to connections and components. Gasketing provides sealing of the enclosure doors. Knockouts permit easy attachment of external electrical raceways.

Dry-Pipe Valve

The dry-pipe valve assembled in the Dry-Pipe Valve **SPRINKLER-PAC** is a low-differential, latched clapper valve that uses a unique direct-acting diaphragm to separate the system water supply from the system piping. The positive latching system uses the supply water pressure to hold the clapper shut. When the water pressure in the diaphragm chamber is released, the latch retracts from the clapper and the valve actuates. The low differential and unique latch and actuator design of the valve allows the valve to be self-resetting.

Piping

Water inlet and drain connections are located on the lower left and right side of the valve enclosure. The outlet connection is on the top surface of the valve enclosure, behind the electrical enclosure. Grooved pipe is used for the inlet and outlet connections.

Wiring

Monitoring and supervisory circuits are connected from switches in the valve enclosure to a terminal strip in the electrical enclosure. No access to the inside of the valve enclosure is necessary to complete the wiring installation.



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Data Sheet UFS-110E
Rev 3.01 Page 2 of 2



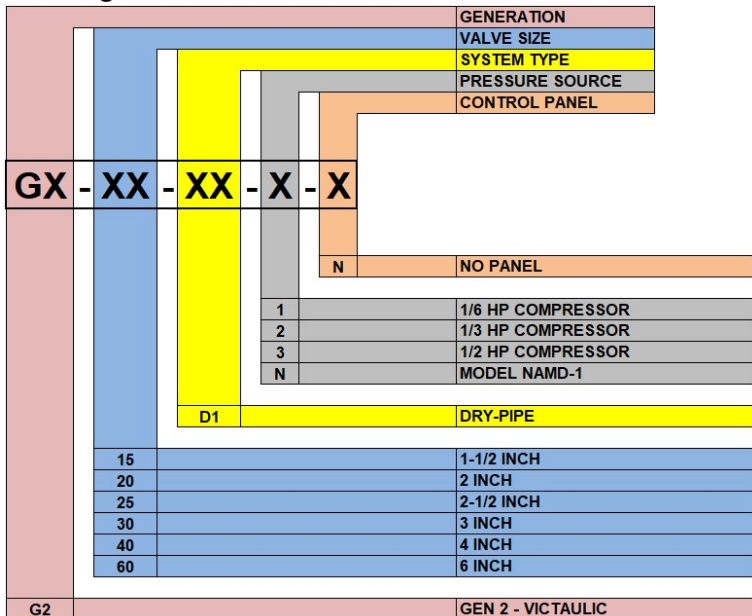
Options

- Choice of dry-pipe valve size (1-1/2 inch through 6 inch available)
- Choice of compressor size - Refer to **Table B**
- Installed Model NAMD-1 pressure maintenance device, making the assembly ready for external supervisory pressure source
- Integrated nitrogen-based corrosion-inhibiting system (refer to Data Sheet **UFS-110H**)

Specifications

- Maximum Service Pressure: 300 PSIG (2065 kPa gauge)
- Valve Test Pressure: Factory hydrostatically tested to 600 PSIG (4135 kPa gauge)
- Minimum Supervisory Pressure: 13 PSIG (90 kPa gauge)
- Maximum Supervisory Pressure: 18 PSIG (124 kPa gauge)
- Electrical Enclosure: 14 gauge steel with continuous welded seams
- Valve Enclosure: 12 gauge steel with continuous welded seams
- Access Doors: Full hinge with oil-resistant gaskets

Ordering Information



Dimensions - Refer to Table A

Dimension	Length
A - Depth	24
B - Valve Enclosure	52
C - Electrical Enclosure	10
D - Width	30
E - Height	64

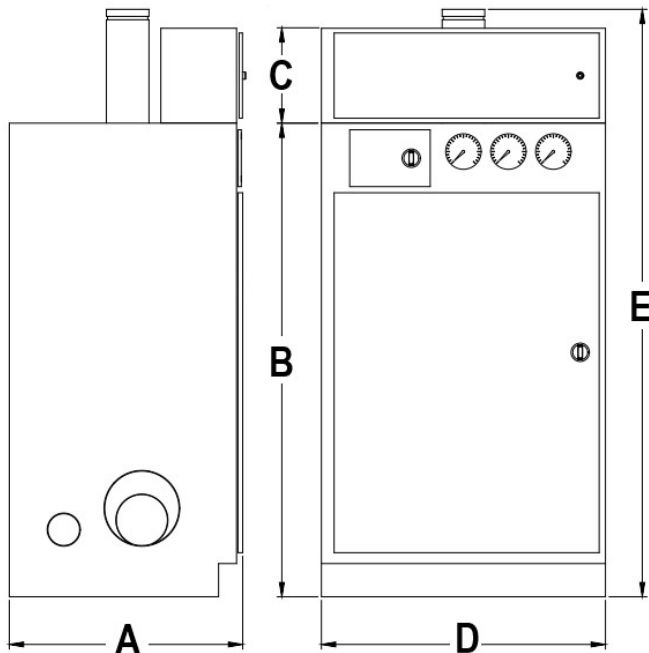
NOTE: All dimensions are in inches

Table A - Dimensions

Compressor HP	Maximum Sprinkler Pipe Volume Gallons
1/6	220
1/3	430
1/2	670

Maximum sprinkler pipe volume is for initial-fill to 18 PSIG in 30 minutes to satisfy NFPA 13-2015 sections 7.2 and 7.3

Table B - Built-In Compressor Capacity



Left Side

Front

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