

SPRINKLER-PAC GENERATION 2 – DELUGE VALVE
FEATURES

- Fully factory assembled and tested
- No field assembly required
- Includes detection and control panel and deluge valve
- Just connect water supply, drain, and sprinkler piping, and field electrical devices
- Attractive and rugged metal enclosure

- Easy-to-see gauges on enclosure front
- Manual actuation valve behind separate non-locking door
- Separate, lockable mechanical 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 deluge sprinkler valve fire suppression system, including deluge valve and trim, providing one complete zone of deluge 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 mechanical enclosure. The system detection and control panel is mounted behind a door in the electrical enclosure with a clear polycarbonate window allowing visual access to the system indicators. 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.

Deluge Valve

The deluge valve assembled in the **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 mechanical enclosure. The outlet connection is on the top surface of the mechanical enclosure, behind the electrical enclosure. Grooved pipe is used for the inlet and outlet connections.

Wiring

Control panel power, detection circuits, notification appliance circuits, and circuits requiring contact closure are connected to terminal strips in the electrical enclosure. No access to the valve enclosure is necessary to complete the wiring installation.


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Detection and Control Panel

Optional detection and control panels allow for the selection of a simple, full-featured conventional detection system, or a fully programmable and networkable addressable system. The panel is fully programmed at the factory. All necessary internal wiring connections are factory-installed and tested.

Options

- Choice of deluge valve size (1-1/2 inch through 6 inch available)
- Choice of control panel (1 conventional and 2 addressable panels available)

Specifications

- Maximum Service Pressure: 300 PSIG (2065 kPa gauge)
- Valve Test Pressure: Factory hydrostatically tested to 600 PSIG (4135 kPa gauge)
- Electrical Enclosure: 14 gauge steel with continuous welded seams
- Mechanical Enclosure: 12 gauge steel with continuous welded seams
- Access Doors: Full hinge with oil-resistant gaskets
- External Power for Control Panel: 120 VAC 60 Hz, single-phase

Ordering Information

GENERATION	
VALVE SIZE	
SYSTEM TYPE	
PRESSURE SOURCE	
CONTROL PANEL	

G2 - XX - D2 - 0 - X

MFR	MODEL	TYPE	STATUS
A	POTTER 4410-RC	CONV	TO BE DISCONTINUED
B	NOTIFIER NFS2-640	ADDR	CURRENT
C	NOTIFIER RP-2001	CONV	DISCONTINUED
D	FENWAL FN-6000	ADDR	DISCONTINUED
E	KIDDE ARIES-SLX	ADDR	CURRENT
F	POTTER ARC-100	ADDR	FUTURE
G	POTTER 4410G3	CONV	FUTURE
N	NO CONTROL PANEL		CURRENT

CONV = Conventional Detection -- ADDR = Addressable Detection

0	NONE
D2	DELUGE

15	1-1/2 INCH
20	2 INCH
25	2-1/2 INCH
30	3 INCH
40	4 INCH
60	6 INCH

G2 GENERATION 2 - VICTAULIC VALVE

Dimension	With or Without Control Panel	Length
A - Depth	Both	24
B - Mechanical Enclosure	Both	52
C - Electrical Enclosure	With	20
	Without	10
D Width	Both	30
	With	72
E - Height	With	72
	Without	64

NOTE: All dimensions are in inches.

Table A - Dimensions

Dimensions - Refer to Table A
With Control Panel Without Control Panel

