

SPRINKLER-PAC GENERATION 3 – 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
- 2 inch, 3 inch, and 4 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** uses a diaphragm to separate the system water supply from the system piping. The valve uses the supply water pressure in the diaphragm chamber to hold the diaphragm closed against the water supply pressure. When the water pressure in the diaphragm chamber is released, the valve actuates. The diaphragm style design of the deluge valve allows for external resetting. Re-pressurizing the diaphragm chamber resets the valve.

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

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 (2 inch, 3 inch, and 4 inch available)
- Choice of control panel (1 conventional and 3 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

G3 - XX - D2 - 0 - X		GENERATION	VALVE SIZE	SYSTEM TYPE	PRESSURE SOURCE	CONTROL PANEL
		A	B	C	D	E
		F	G	N		
		CONV = Conventional Detection -- ADDR = Addressable Detection				
		0	NONE			
		D2	DELUGE			
		20	2 INCH			
		30	3 INCH			
		40	4 INCH			
G3		GENERATION 3 - TYCO VALVE				

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	CONV	FUTURE
G	POTTER 4410G3	ADDR	FUTURE
N	NO CONTROL PANEL		CURRENT

Dimensions - Refer to Table A

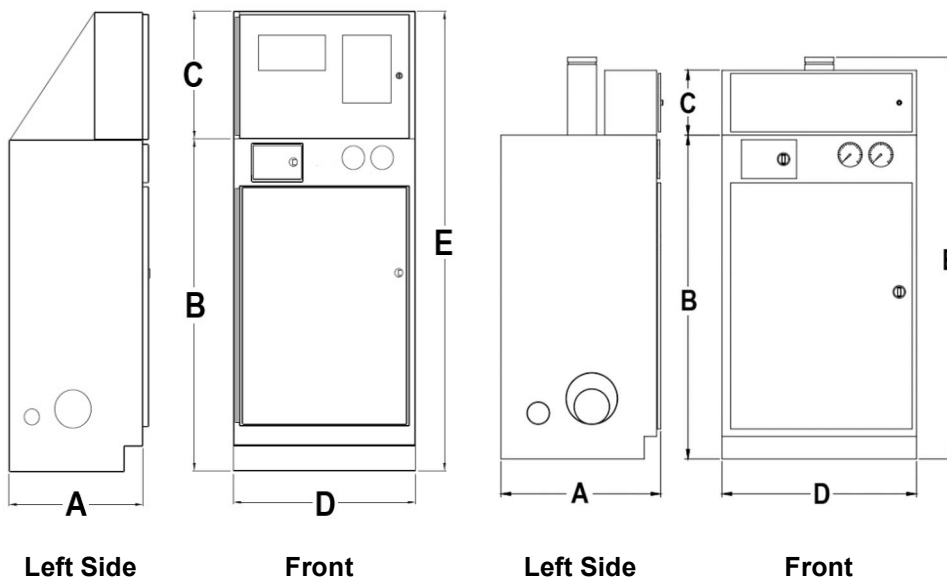
With Control Panel

Without Control Panel

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

NOTE: All dimensions are in inches.

Table A - Dimensions



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