

Model DV-5A Deluge System

Product Description

Model No	Release Type	Valve Size		Rated Working Pressure		End Connection	Remarks
		in	(mm)	psi	(kPa)		
DV-5A	Wet Pilot	1 1/2, 2, 3, 4, 6, 8	(40, 50, 80, 100, 150, 165.1, 200)	300	(2065)	Grooved	a, g, j, k, m
DV-5A	Wet Pilot	1 1/2, 2	(40, 50)	300	(2065)	Threaded	a, b, g, j, k, m
DV-5A	Wet Pilot	3, 4, 6, 8	(80, 100, 150, 200)	300	(2065)	Flanged	a, g, j, k, m
DV-5A	Wet Pilot	3, 4, 6, 8	(80, 100, 150, 200)	300	(2065)	Grooved x Flanged	a, g, j, k, m
DV-5A	Dry Pilot	1 1/2, 2, 3, 4, 6, 8	(40, 50, 80, 100, 150, 165.1, 200)	250	(1720)	Grooved	a, f, g, h, j, k, m
DV-5A	Dry Pilot	1 1/2, 2	(40, 50)	250	(1720)	Threaded	a, b, f, g, h, j, k, m
DV-5A	Dry Pilot	3, 4, 6, 8	(80, 100, 150, 200)	250	(1720)	Flanged	a, f, g, h, j, k, m
DV-5A	Dry Pilot	3, 4, 6, 8	(80, 100, 150, 200)	250	(1720)	Grooved x Flanged	a, f, g, h, j, k, m
DV-5A	Electric	1 1/2, 2, 3, 4, 6, 8	(40, 50, 80, 100, 150, 165.1, 200)	See Remarks		Grooved	a, c, d, e, g, i, j, k, l, m
DV-5A	Electric	1 1/2, 2	(40, 50)	See Remarks		Threaded	a, b, c, d, e, g, i, j, k, l, m
DV-5A	Electric	3, 4, 6, 8	(80, 100, 150, 200)	See Remarks		Flanged	a, c, d, e, g, i, j, k, l, m
DV-5A	Electric	3, 4, 6, 8	(80, 100, 150, 200)	See Remarks		Grooved x Flanged	a, c, d, e, g, i, j, k, l, m

Remarks:

- a. Approved when supplied with a main control valve body ASTM A536 ductile iron
- b. Approved when supplied with a main control valve body ASTM A351 CF8M stainless steel (size 1-1/2 inch NPS threaded end connections only)
- c. The rated working pressure is limited to the rated pressure of the release trim solenoid valve.
- d. Approved when equipped with a Skinner Model 73218BN4UNLVN0C111C2 two-way normally closed solenoid valve, 24 V dc, 10 W, 1/2 in. NPS, Cv Factor 4.0, Rated Working Pressure of 175 psi (1210 kPa).
- e. Approved when equipped with a Skinner Model 73212BN4TNLVN0C322C2 two-way normally closed solenoid valve, 24 V dc, 22.6 W, 1/2 in. NPS, Cv Factor 2.8, Rated Working Pressure of 300 psi (2070 kPa).
- f. Approved when supplied with a Model DP-1 dry pilot valve
- g. Approved when supplied with a Potter PS10-1 or PS10-2 waterflow pressure alarm switch
- h. Approved when supplied with a Potter PS40-1 or PS40-2 low pressure alarm switch
- i. Approved when equipped with a Skinner Model 73218BN4UNLVN0H111C2 two-way normally closed solenoid valve, 24 V dc, 10 W, 1/2 in. NPS, Cv Factor 4.0, Rated Working Pressure of 175 psi (1210 kPa).
- j. Approved when factory assembled vertically inside the Model DV-5A Red-E Cabinet. The Red-E cabinet and assembled system components comprise an integrated fire protection system which is assembled and tested at the factory.
- k. Approved when DV-5A valve and trim assembled horizontally or vertically.



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l. Approved when equipped with a Ningbo Yongxing two-way normally closed solenoid valve 24 V dc, 12 W, ½ in. NPS, Rated Working Pressure of 230 psi (1600 kPa).

m. Optional Supervisory Switches: Tyco TPS10X1 or TPS10X2 waterflow pressure switch and Tyco TPS40X1 or TPS40X2 low pressure alarm switch.

Details

Category	Deluge Sprinkler Systems
Class of Work	1020 - Automatic Water Ctrl Valves
Approval Standard	FM 1020 - Automatic Water Control Valves
Certification Type	FM Approved
Listing Country	United States of America

Company

Tyco Fire Products LP
1467 Elmwood Ave, Cranston ,
Rhode Island 02910
United States of America
<http://tyco-fire.com>

Additional Info

Automatic Sprinkler Systems

Sprinkler Systems

Deluge Sprinkler Systems

Deluge sprinkler systems have open sprinklers or open spray nozzles and are used where it is desirable to discharge water through all of the system's sprinklers or nozzles simultaneously. Prior to discharge there is no water in the sprinkler piping. The water supply is held back by a control valve which is operated manually or automatically by the actuation of a fire detection system. The fire detection system is required to be one of the following types: wet pilot sprinkler line, dry pilot sprinkler line, hydraulic rate-of-rise, pneumatic rate-of-rise or electric. Compatible FM Approved Release Control Panels for use with electric release deluge sprinkler system(s) are listed under RELEASE CONTROL PANEL COMPATIBILITY.

Automatic sprinklers are used on wet or dry pilot sprinkler lines. The dry pilot sprinkler line may also require a dry pilot actuator depending upon the type of automatic water control valve. When required, only the compatible dry pilot actuator noted in the sprinkler system listing shall be used in FM Approved systems.

Electrically operated deluge sprinkler systems are FM Approved on a component basis. Only the major, compatible components noted in the sprinkler system listing shall be used in an FM Approved system. FM Global installation acceptance may stipulate that only heat-actuated fire detection devices be used. Acceptance criteria by other jurisdictional authorities may vary.

Deluge sprinkler systems are FM Approved as complete systems. *Only the listed components for a specific manufacturer shall be used in an FM Approved system.*
