

# Model DV-5A Double Interlock Preaction System

## Product Description

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

**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 250 psi (1720 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 supplied with a Potter Model QRS electronic accelerator system
- j. 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).
- k. Approved for use with Potter Model RCDS-1 releasing circuit disable switch.
- l. 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.
- m. Approved when DV-5A valve and trim assembled horizontally or vertically.
- n. Approved when equipped with a Ningbo Yongxing two-way normally closed solenoid valve 24 V dc, 12 W, 1/2 in. NPS, Rated Working Pressure of 230 psi (1600 kPa).
- o. Optional Supervisory Switches: Tyco TPS10X1 or TPS10X2 waterflow pressure switch and Tyco TPS40X1 or TPS40X2 low pressure alarm switch.

## Details

<b>Category</b>	Refrigerated Area Sprinkler Systems
<b>Class of Work</b>	1012 - Pre-Action Sprinkler Systems
<b>Approval Standard</b>	FM 1011, 1012, 1013 - Deluge and Preaction Systems
<b>Certification Type</b>	FM Approved
<b>Listing Country</b>	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

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#### Sprinkler Systems

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##### Refrigerated Area Sprinkler Systems

A refrigerated area sprinkler system affords fire protection in refrigerated rooms or buildings and includes special safeguards against accidental filling with water and subsequent freezing of the system. A fire detection system shall actuate and one or more automatic sprinklers in the piping shall operate before water will enter the sprinkler system. An alarm sounds if the detection system only is actuated while pneumatic pressure is maintained in the sprinkler piping. An alarm also sounds if the pneumatic pressure in the sprinkler piping is not properly maintained. In either case, water does not enter the system piping. These systems should be installed in accordance with FM Global Loss Prevention Data Sheet 8-29, "Refrigerated Storage". System calculations regarding required system air capacity should be performed if only one air maintenance device is contemplated for several sprinkler systems.

Refrigerated area sprinkler systems which are operated pneumatically/hydraulically are FM Approved as complete systems. Only the listed components for a given system may be used in combination.

Fire detection systems which are operated electrically are FM Approved on a component basis. Only compatible components may be used in combination. Compatible FM Approved Release Control Panels for use with electric release refrigerated area sprinkler system(s) are listed under RELEASE CONTROL PANEL COMPATIBILITY.

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