

## DV Series Valves

The Industry Leader for Over 20 Years.

### Features

#### DV SERIES

- Double-filtered pilot-flow design for maximum reliability
- Balanced-pressure diaphragm for long life
- External bleed to manually flush system of dirt and debris during installation and system start up
- Internal bleed for spray-free manual operation
- Energy efficient, low-power encapsulated solenoid with captured plunger and 163 micron solenoid filter
- Buna-N diaphragm with self-cleaning 163 micron pilot water filter and captive spring
- Operates in low-flow and Xerigation® applications when a minimum 75 micron filter is installed upstream
- 3,2 cm stainless steel phillips head screws
- Accepts latching solenoid for use with Rain Bird battery-operated controllers
- Available as:
  - ¾" (20/27) and 1" (26/34) standard in-line configuration
  - 1" (26/34) Male-by-Male (MM) configuration

#### DVF SERIES

- Incorporates all features of DV Series valves
- Unique, easy-to-turn pressure-assisted flow control mechanism

### Operating Range

- Pressure: 1,0 to 10,4 bar
- 075-DV Flow: 0,05 to 5,0 m³/h; 0,01 to 1,39 l/s; for flows below 0,75 m³/h; 0,21 l/s or any Xerigation application, when a minimum 75 micron filter is installed upstream
- 100-DV/DVF Flow: 0,05 to 9,08 m³/h; 0,01 to 2,52 l/s; for flows below 0,75 m³/h; 0,21 l/s or any Xerigation application, when a minimum 75 micron filter is installed upstream
- Temperature: Up to 43° C
- Ambient air temperature up to 52° C

### Electrical Specifications

- 24 VAC 50/60 Hz (cycles/sec.) solenoid
- Inrush current: 0,30 A (7,2 VA) at 60 Hz
- Holding current: 0,19 A (4,6 VA) at 60 Hz
- Coil resistance: 42-55 Ohms
- Not compatible with ESP-LXD decoders. Use Rain Bird commercial valves (PGA, PEB, GB, EFB-CP and BPE series)

### Dimensions

#### DV SERIES

- Height: 11,4 cm
- Length: 11,1 cm; (MM) 14,6 cm
- Width: 8,4 cm

#### DVF SERIES

- Height: 14,2 cm
- Length: 11,1 cm
- Width: 8,4 cm

### Models

- 075-DV: ¾" (20/27)
- 100-DV-9V: 1" (26/34)
- 100-DV: 1" (26/34)
- 100-DV-MM: 1" (26/34)
- 100-DV-MM-9V: 1" (26/34)
- 100-DVF: 1" (26/34)

### 100-DV Male x Male

#### Valve Pressure Loss (bar)

Flow		075-DV ¾" (bar)	100-DV/100-DVF 1" (bar)
(m³/h)	(l/s)		
0,25	0,06	0,18	0,15
0,75	0,21	0,18	0,15
1,0	0,28	0,20	0,17
2,0	0,56	0,24	0,19
5,0	1,39	0,37	0,31
7,5	2,08	-	0,48
9,1	2,52	-	0,60

### 100-DV Male x Male

#### Valve Pressure Loss (bar)

Flow		Male x Male 1" (bar)
(m³/h)	l/s	
0,25	0,06	0,15
0,75	0,21	0,15
1,0	0,28	0,17
2,0	0,56	0,19
5,0	1,39	0,36
7,5	2,08	0,72
9,1	2,52	1,27

#### Notes:

- 1) Rain Bird® recommends flow rates in supply line not to exceed 2,3 m/s in order to reduce the effects of water hammer.
- 2) DV Series valves cannot be used with PRS pressure regulating modules.
- 3) DV/DVF Male x Male not recommended for flows exceeding 6,8 m³/h; 1,9 l/s.
- 4) DV/DVF Valves cannot be used with two-wire/decoder systems.



075-DV



100-DV



100-DVF

### How To Specify

100 - DV - MM

Optional Configuration  
MM: Male x Male

Model  
DV: Remote Control Valve

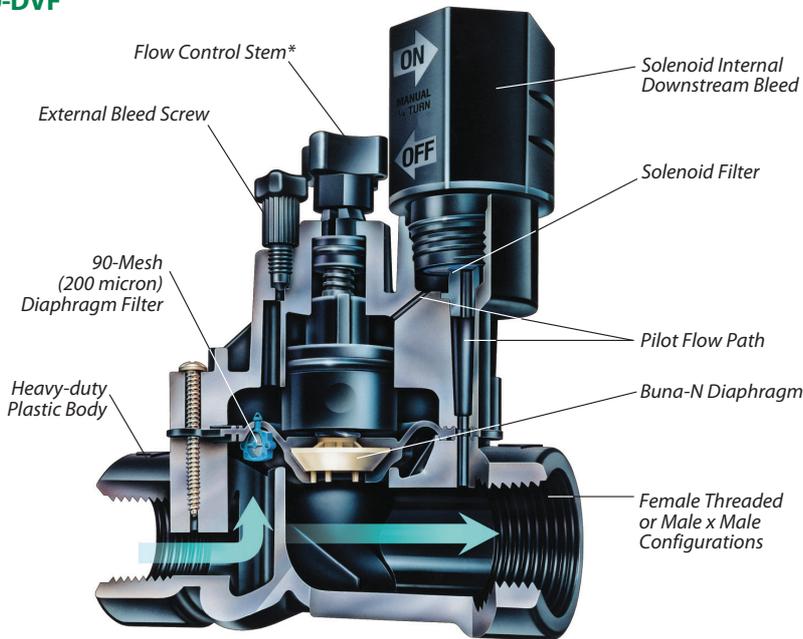
#### Size

075: ¾" (20/27) 100: 1" (26/34)

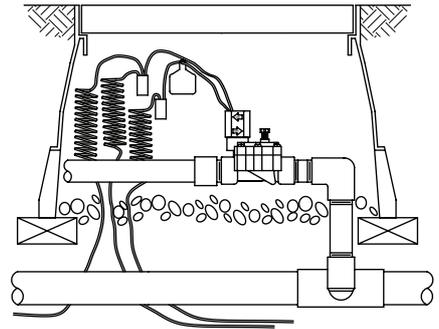
#### Note:

This specifies a 100-DV valve; 1" (26/34) male x male.

## 100-DVF



\*Available only on DVF models



DV Series

## Specifications

### 075-DV, 100-DV, 100-DV-MM Electric Remote Control Valves

The valve shall be normally closed 24 VAC 50/60 Hz (cycles per second) solenoid actuated, balanced pressure type capable of a flow rate of \_\_\_ l/s; m<sup>3</sup>/h with a pressure loss not to exceed \_\_\_ bar. The valve pressure rating shall not be less than 10,4 bar. The valve body and bonnet shall be constructed of high impact weather resistant plastic, stainless steel and other chemical/UV resistant materials. The valve shall have a one unit diaphragm constructed of durable Buna-N rubber material with a clog resistant metering orifice. The valve shall have one 90-mesh (200 micron) pilot filter attached to the diaphragm. The valve shall have one fully encapsulated solenoid with captured plunger.

The valve shall have one 90-mesh (200 micron) filter attached to the solenoid base.

The valve body shall have one of the following: a 3/4" globe configuration (20/27) or 1" (26/34) (FBSP) inlet and outlet; a 1" (26/34) (MBSP) inlet and outlet configuration.

The valve shall be actuated by a low power 0,30 A (7,2 VA) in-rush current and 0,23 A (5,5VA) holding current. The valve shall be capable of on/off control by turning the solenoid 1/4 turn. The valve shall provide a flush mode that is manually activated by 1/2 turn of the bleed screw where external porting is permissible.

The valve shall be as such to provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

The remote control valve shall be manufactured by Rain Bird Corporation, Azusa, California.

### 100-DVF Electric Remote Control Valves with Flow Control

#### Optional Feature Specifications

When so indicated on the design, the DVF valve shall have all the specifications of the DV Series remote control valve plus a unique, easy-to-turn pressure-assisted flow control mechanism.

The remote control valve with flow control shall be as manufactured by Rain Bird Corporation, Azusa, California.

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