

Jar Top Series Anti-Siphon Valves

Versatility, Value, Convenience

The Rain Bird Jar Top Anti-Siphon Valves (JTVF-AVB) provide versatility, reliability, affordability, and ease of service for residential and light commercial applications. The threaded bonnet design allows for tool-free access and maintenance, eliminating the need to remove and replace multiple screws. This product combines a reliable Jar Top Flow Control Valve and atmospheric vacuum breaker (backflow preventer) in one unit.

Features

Reliability

- Double-filtered pilot flow for maximum reliability
- Balanced-pressure diaphragm for long life
- Buna-N diaphragm with self-cleaning 90-mesh (200 micron) pilot water filter and captive stainless steel spring
- Energy efficient, low-power encapsulated solenoid with captured plunger

Versatility

- Operates in low-flow and Xerigation® applications when the RBY filter is installed upstream
- Accepts latching solenoid for use with Rain Bird battery-operated controllers
- External bleed to manually flush system of dirt and debris during installation and system start up
- Internal bleed for spray-free manual operation
- Standard flow control feature for easy system tuning
- Combination reliable JTVF valve and atmospheric vacuum breaker (backflow preventer) in one unit
- Incorporates all features of JTVF Series valves, plus meets I.A.P.M.O., UPC and CUPC (recognized in Canada and by the City of Los Angeles) listing specifications
- Must be installed at least 6" (15,2 cm) above the highest point of water in the sprinkler pipe it serves
- No valve can be located downstream of the anti-siphon valve
- Consult local codes

Ease of Service

- Threaded bonnets provide easy removal with no screws
- Trouble-free service with few parts
- Drop-in diaphragm for effortless maintenance

Operating Range

- Pressure: 15 to 150 PSI (1,0 to 10,3 bar)
- Flow:
 - ¾" – 1 to 20 GPM (0,23 to 4,53 m³/h; 3,8 to 75,7 l/m)
 - 1" – 1 to 30 GPM (0,23 to 6,81 m³/h; 3,8 to 113,6 l/m)
- Operating Temperatures: Water temperature up to 110° F (43° C); ambient temperature up to 125° F (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

Dimensions

- Height: 6" (15,2 cm)
- Length: 6 ¼" (15,9 cm)
- Width: 3 ½" (7,9 cm)

Models

- 075-JTVFAVB: ¾" (20/27) female x female threaded with flow control and atmospheric vacuum breaker
- 100-JTVFAVB: 1" (26/34) female x female with flow control and atmospheric vacuum breaker



Valve Pressure Loss (psi)

| GPM | 075-JTVFAVB | 100-JTVFAVB |
|-----|-------------|-------------|
| | psi | psi |
| 1 | 2.9 | 2.9 |
| 3 | 3.8 | 3.8 |
| 5 | 4.2 | 4.2 |
| 10 | 5.8 | 5.8 |
| 15 | 6.4 | 6.4 |
| 20 | 9.1 | 9.1 |
| 30 | - | 17.4 |

Valve Pressure Loss (bar) Metric

| m³/h | l/m | 075-JTVFAVB | 100-JTVFAVB |
|------|-------|-------------|-------------|
| | | bar | bar |
| 0,23 | 3,8 | 0,20 | 0,20 |
| 0,68 | 11,4 | 0,26 | 0,26 |
| 1,14 | 18,9 | 0,29 | 0,29 |
| 2,27 | 37,9 | 0,40 | 0,40 |
| 3,41 | 56,8 | 0,44 | 0,44 |
| 4,54 | 75,7 | 0,63 | 0,63 |
| 6,81 | 113,6 | - | 1,20 |

How to Specify/Order

100 - JTVFAVB

Size

075: ¾" (20/27)
100: 1" (26/34)

Model

JTVFAVB: Jar Top Valve with Flow control and atmospheric vacuum breaker



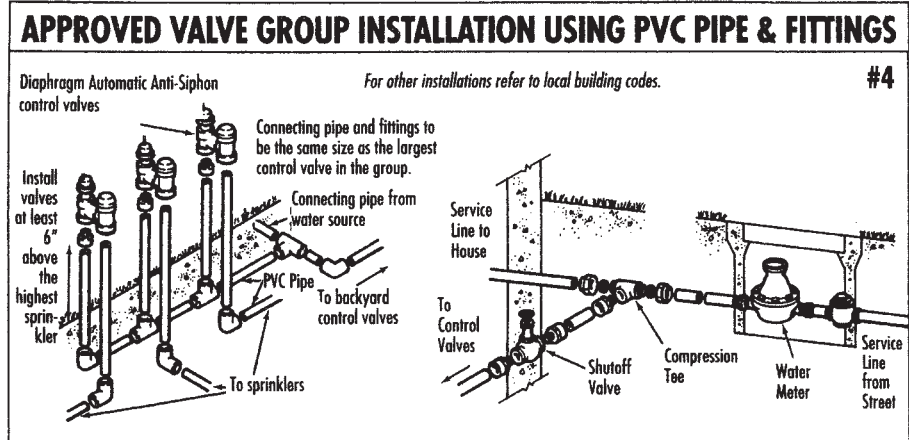
Specifications

075-JTVFAVB, 100-JTVFAVB Electric Remote Control Valve with Flow Control and Atmospheric Vacuum Breaker (Backflow Preventer)

The valve shall be normally closed 24 VAC 50/60 Hz solenoid actuated, balanced pressure type capable of a flow rate of 30 GPM (6,82 m³/h; 1,89 l/s) with a pressure loss not to exceed _____. The valve pressure rating shall not be less than 150 psi (10,3 bars). 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 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 body shall be a 1" globe configuration (26/34) with a _____ inlet and _____ outlet.

The valve shall be actuated by a low power 0.30 A (7.2 VA) inrush current and 0.19 A (4.6 VA) holding current. The valve shall be capable of on/off control by turning the solenoid ¼ turn. The valve shall provide a flush mode that is manually activated by ½ turn of the bleed screw where external porting is permissible.



The valve shall be of a threaded bonnet design and provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

When so indicated on the design, the ASVF valve shall have all the specifications as the DVF Series remote control valve plus an atmospheric backflow preventer. The remote control valve shall include as one unit an electric remote control valve and atmospheric backflow preventer. The valve shall have a patented, easy-to-turn, flow control mechanism. The valve shall meet I.A.P.M.O. listing specifications of UPC and Canadian CUPC.

The combination remote control valve and atmospheric backflow preventer shall be as manufactured by Rain Bird Corporation, Glendora, California.

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Technical Service and Support

(800) RAINBIRD (U.S. and Canada only)

Specification Hotline

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www.rainbird.com

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