

HV Series

High Value Valve. High Performance. Big Savings.

Features

- Patented, eccentric, balanced pressure, Buna-N diaphragm with self-cleaning 90-mesh (200 micron) pilot water filter and captured stainless steel spring – Eccentric design provides smoother closing, less water hammer
- Only four durable, captured multi-drive bonnet screws that come out with half the number of turns for fast and easy servicing – at least twice as fast as the competition
- Glass-filled polypropylene body for strength (slip by slip model bodies are PVC)
- All popular model configurations available
- Compact design, 2.54" spin radius for tight installations
- Reverse flow, normally closed design
- External bleed to manually flush system of dirt and debris during installation and system start-up
- Internal bleed for spray-free manual operation
- Operates in low-flow and Landscape Drip applications when a 200 mesh filter is installed upstream

Specifications

- Pressure: 15 to 150 PSI (1,0 to 10,3 bar)
- Flow: 0.2 to 30 GPM (0,05 to 6,82 m³/h; 0,01 to 1,89 l/s); for flows below 3 GPM (0,68 m³/h; 0,19 l/s) or any Landscape Drip application, use a 200 mesh filter installed upstream
- Operating Temperatures: Water temperature up to 110° F (43° C); ambient temperature up to 125° F (52° C)
- 24 VAC 50/60 Hz (cycles/sec.) solenoid
- Inrush current: 0.290A at 50/60 Hz
- Holding current: 0.091A at 50/60 Hz
- Solenoid Coil resistance: 70-85 Ohms (40° F - 110° F)



HV Valve Pressure Loss (psi)

Flow gpm	1" HV psi	1" HV-MB psi
1	1.57	1.73
3	2.07	2.03
5	2.38	2.25
10	3.33	2.80
20	4.59	4.45
30	6.14	7.85

HV Valve Pressure Loss (bar)

Flow m ³ /h	l/m	1" HV bar	1" HV-MB bar
0.25	4.17	0.11	0.12
0.75	12.50	0.14	0.14
1.00	16.67	0.16	0.16
2.00	33.34	0.23	0.19
5.00	83.35	0.32	0.31
7.50	125.03	0.42	0.94

* Rain Bird recommends flow rates in the supply line not to exceed 7.5 ft/sec (2.3 m/s) in order to reduce the effects of water hammer

Dimensions

- Height: 4.62" (11.7 cm)
- Height (F): 5.62" (14.3 cm)
- Height (MB): 4.50" (11.4 cm)
- Length: 4.4" (11.2 cm)
- Length (MB): 5.68" (14.4 cm)
- Width: 3.1" (7.9 cm)

Models

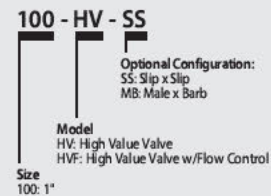
- 100-HV-NPT: 1" NPT female x female*
- 100-HV-SS: 1" slip x slip
- 100-HV-MB: 1" male x barb
- 100-HV-F-SS: 1" slip x slip

* Available with BSP threads. Also available with 9VDC Latching Solenoid.

Recommendations

1. Rain Bird recommends flow rates that result in discharge velocities in the supply line not to exceed 7.5 ft/sec (2.3 m/s) in order to reduce the effects of water hammer.
2. Rain Bird residential valves cannot be used with PRS pressure regulating modules.
3. Not recommended for use with 2-wire decoder systems like ESP-LXD.

How to Specify



Note: For non-U.S. applications it is necessary to specify NPT or BSP thread type (1" only)