

HV Series Valves

Outstanding performance. Unmatched durability.

Features

Reliability

- Eccentric diaphragm for smooth closing, less water hammer
- Glass-filled polypropylene body for strength
- Reverse flow normally closed design
- Double-filtered pilot flow for maximum reliability
- Trouble-free service with few parts
- Buna-N diaphragm with self-cleaning 90-mesh (200 micron) pilot water filter and stainless steel spring

Versatility

- Compact design, 2.54" spin radius for tight installations
- Operates in low-flow and Xerigation® applications when the RBY filter is installed upstream
- Available in multiple fitting types
- External bleed to manually flush system of dirt and debris during installation and system start-up
- Internal bleed for spray-free manual operation

Ease of Service

- Captive multi-drive screws for easier maintenance
- Your choice of tools to open valve (nut driver, Phillips head screwdriver, slotted head screwdriver)
- Quick access to diaphragm with only four screws
- Diaphragm locating post for reliable service



Operating Range

- **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 gph (0,68 m³/h; 0,19 l/s) or any Xerigation® application, use RBY-100-200MX filter installed upstream
- **Temperature:** water temperature up to 110°F (43°C); ambient temperature up to 125°F (25°C)

How to Specify

100 – HV – SS

Size: 100: 1" (26/34)

Model: HV: High Value Valve

Optional Configuration: SS: Slip x Slip

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

Electrical Specification

- 24 VAC 50/60 HZ Solenoid
- **Maximum Inrush Current:**
0.250 Amps @ 60HZ
- **Holding Current:** 0.143 Amps @ 60HZ
- **Coil Resistance:** 52 to 55 Ohms

Dimensions

- Height: 4.62" (11,7 cm)
- Length: 4.4" (11,2 cm)
- Width: 3.1" (7,9 cm)

Models

- 100-HV NPT
- 100-HV-SS
- 100-HV BSP

Valve Pressure Loss (psi)		
Flow (gpm)	1" HV (psi)	
1	1.57	
3	2.07	
5	2.38	
10	3.33	
20	4.59	
30	6.14	
40	8.23	

Valve Pressure Loss (bar) METRIC		
Flow (m ³ /h)	Flow (l/s)	1" HV (bar)
0,25	0,06	0,11
0,75	0,21	0,14
1,00	0,28	0,16
2,00	0,56	0,23
5,00	1,39	0,32
7,50	2,08	0,42
9,10	2,52	0,57

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