

GSV Series Valves

Designed for the Harshest Conditions

Applications

Equipped with a collection of upgrades that take durability and performance to an unrivaled level, Rain Bird® GSV Series Valves can stand up to the challenges of any course. Advanced features make these valves especially valuable in lightning-prone regions, areas utilizing reclaimed water, and markets with high or fluctuating water pressure.

Plastic and brass models with NPT and BSP thread options allow these valves to be used worldwide.



Features

Powerful Surge Resistance

- Withstand surge events up to 25kV with the GBS25 Solenoid, or up to 20kV with ICM

Adjustable Pressure Regulation

- Pre-installed PRS-DIAL regulates and maintains constant outlet pressure between 15 and 100 psi (1.04 to 6.90 bar) within ± 3 psi (± 0.21 bar)
- When inlet pressure exceeds 100 psi (6.90 bar), a pressure-regulating master valve or inline pressure regulator is required
- Improved pressure spike reduction capabilities minimize water hammer
- Waterproof dial cartridge eliminates fogging and binding
- Consistent sprinkler performance for block applications
- Ergonomic design with snap-tight cover on dial cartridge prevents vandalism

Engineered for Reclaimed Water

- Chlorine-resistant diaphragm delivers increased protection against harsh chemicals
- Optional purple flow control handle and cover allow for easy indication of non-potable water use

Uncompromising Durability

- Plastic models feature a glass-filled polypropylene body that delivers heavy-duty performance up to 200 psi (13.80 bar) pressure
- GSV211 (BSP only) model includes a red brass body and bonnet for longer life and more rugged performance up to 200 psi (13.80 bar) pressure
- Scrubber mechanism (plastic models only) encapsulates stainless steel screen to dislodge grit and plant material
- External bleed protects solenoid ports from debris when system is flushed

Electrical Specifications

GBS25 Solenoid

- Power:** 24 VAC 50/60 Hz (cycles/second)
- Inrush Current:** 0.41 A (9.84 VA)
- Holding Current:** 0.20 A (4.80 VA) at 60 Hz, 0.23 A (5.40 VA) at 50 Hz

ICM

- Electrical Output:** 28.5 VAC, 1.25 AMP Per Wire Path

HOW TO SPECIFY

GSV	XXX
MODEL	SIZE
GSV	100 = 1" NPT
GSVIC	101 = 1" BSP
	150 = 1 1/2" NPT
	151 = 1 1/2" BSP
	200 = 2" NPT
	201 = 2" BSP
	211 = 2" BSP (Brass)

Models

- GSV100 / GSVIC100: Plastic 1", National Pipe Thread
- GSV101 / GSVIC101: Plastic 1", British Standard Pipe
- GSV150 / GSVIC150: Plastic 1.5", National Pipe Thread
- GSV151 / GSVIC151: Plastic 1.5", British Standard Pipe
- GSV200 / GSVIC200: Plastic 2", National Pipe Thread
- GSV201 / GSVIC201: Plastic 2", British Standard Pipe
- GSV211 / GSVIC211: Brass 2", British Standard Pipe

Dimensions

MODEL	SIZE	HEIGHT	LENGTH	WIDTH
GSV100 / GSV101 GSVIC100 / GSVIC101	1"	8.3" (21.1 cm)	5.6" (14.2 cm)	5.2" (13.2 cm)
GSV150 / GSV151 GSVIC150 / GSVIC151	1.5"	9.5" (24.1 cm)	6.1" (15.5 cm)	6.2" (15.8 cm)
GSV200 / GSV201 GSVIC200 / GSVIC201	2"	9.9" (25.2 cm)	6.1" (15.5 cm)	6.2" (15.8 cm)
GSV211 (Brass) GSVIC211 (Brass)	2"	9.4" (23.9 cm)	6.9" (17.5 cm)	5.9" (14.9 cm)



Operating Range

- **Flow:** 5 to 200 gpm (19.20 to 757 l/m); (1.10 to 45.50 m³/h)
- **Pressure:** Up to 200 psi (13.80 bar)*
- **Temperature:** 150°F (66°C) maximum

*While the PRS-Dial unit can withstand pressures up to 200 psi (13.80 bar), accurate pressure regulation can be maintained only up to 100 psi (6.90 bar).

U.S. Data — Pressure Loss (psi)

Flow gpm	GSV100 / GSV101 GSVIC100 / GSVIC101	GSV150 / GSV151 GSVIC150 / GSVIC151	GSV200 / GSV201 GSVIC200 / GSVIC201	Flow gpm	GSV211 GSVIC211 2"
	1"	1 1/2"	2"		
5	2.9	—	—	5	—
10	2.9	—	—	10	—
20	2.6	3.5	—	15	—
30	5.8	3.1	—	20	0.5
40	10.2	2.3	—	30	0.6
50	16.0	2.1	—	40	0.8
75	—	4.3	3.3	50	1.1
100	—	7.5	4.7	60	1.8
125	—	11.9	8.6	80	2.4
150	—	17.0	12.6	100	3.8
175	—	—	14.8	120	5.9
200	—	—	18.9	140	7.8
				160	10.0
				180	12.5
				200	15.8

Metric Data — Pressure Loss (bar)

Flow		GSV100 / GSV101 GSVIC100 / GSVIC101	GSV150 / GSV151 GSVIC150 / GSVIC151	GSV200 / GSV201 GSVIC200 / GSVIC201	Flow		GSV211 GSVIC211 2"
l/m	m ³ /h	1"	1.5"	2"	l/m	m ³ /h	
20	1.2	0.20	—	—	19	1	—
50	3	0.19	—	—	50	3	—
100	6	0.32	0.22	—	100	6	0.04
150	9	0.69	0.16	—	150	9	0.05
200	12	—	0.16	—	200	12	0.09
250	15	—	0.24	—	250	15	0.14
300	18	—	0.33	0.25	300	18	0.16
350	21	—	0.45	0.30	350	21	0.23
400	24	—	0.59	0.38	400	24	0.30
450	27	—	0.75	0.53	450	27	0.40
500	30	—	0.91	0.67	500	30	0.49
550	33	—	1.10	0.82	550	33	0.58
600	36	—	—	0.92	600	36	0.68
650	39	—	—	1.00	650	39	0.79
700	42	—	—	1.13	700	42	0.92
757	45	—	—	1.30	757	45	1.09

Rain Bird recommends flow rates in the supply line not to exceed 7 1/2 ft/sec (2.29 m/s) to reduce the effects of water hammer.

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