Resin solenoid valve for automatic watering

GSV2 resin solenoid valve

- Union connection
- For watering of greenbelts, protected horticulture, parks, and urban greenery
- Continuously energized, latch
- Pilot operated diaphragm

Specifications

Descriptions		GSV2-20 *	GSV2-25 *	GSV2-40 *	GSV2-50 *
Working fluid		Water/agricultural water/diluted agricultural chemicals/liquid fertilizers, etc. *			
Max. working pressure MPa		0.75			
Working pressure differential range MPa		0.03 to 0.75			
Proof pressure MPa		1.5			
Fluid temperature °C		4 to 40			
Ambient temperature °C		0 to 50			
Valve seat leakage cm^3/min		0.1 or less (water)			
Orifice size mm		25		52	
Cv		11	13	42	45
Mounting orientation		Use in the horizontal piping with the coil portion facing upwards or in vertical piping with the OUT port facing upwards.			
Nominal port size		20	25	40	50
Body material		PP			
Weight kg	Connection: U	1	1	1.8	1.9
	Connection: A	1.5	1.5	3.3	2.9
Voltage		24 VDC, 24/100/200 VAC (50/60 Hz), P type *1			
Power consumption W		AC/2.5, DC/3			
Thermal class		B (JIS C 4003)			
Leakage current mA		6 or less/24 VAC, 1.9 or less/100 VAC, 0.7 or less/200 VAC, 4 or less/24 VDC			

* Limited to fluids that will not cause corrosion of the wetted part materials.

How to order

GSV2 - 50 U - P - AC100V

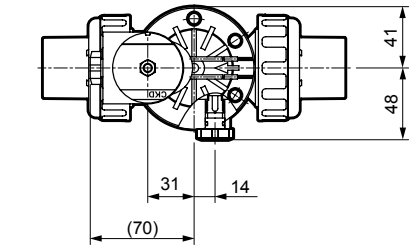
- A Nominal port size
- B Connection
- C Coil housing
- D Voltage

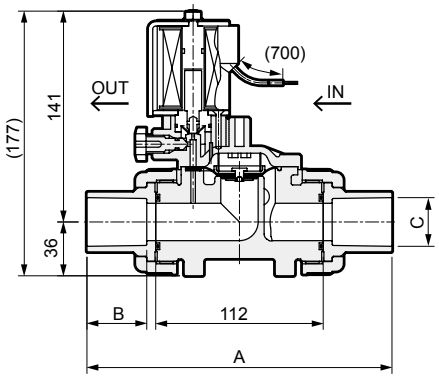
Code	Content
A Nominal port size	
20	20A
25	25A
40	40A
50	50A
B Connection	
U	Polyvinyl chloride (socket)
Blank	Body only (without union end/union nut) *5
A	Taper pipe thread (Rc) (custom order product)
C Coil housing *4	
Blank	Standard
P	Latch *1
D Voltage	
AC24V	24 VAC 50/60 Hz *3
AC100V	100 VAC 50/60 Hz *3
AC200V	200 VAC 50/60 Hz *3
DC24V	24 VDC *2

*1: The coil housing P type is dedicated for use with controllers manufactured by CKD.
The voltage of the model No. is not required when placing an order.
Dedicated controller
·RSC-S5, RSC-G Series
·RSC-1WP, RSC-2WP
*2: The 24 VDC type is equipped with a surge suppressor device.
*3: The AC coils are all equipped with rectifying surge suppressors. (Half-wave)
*4: The lead wires are all 2-conductor leads.
*5: If Connection method is Blank, prepare a union end and union nut separately.

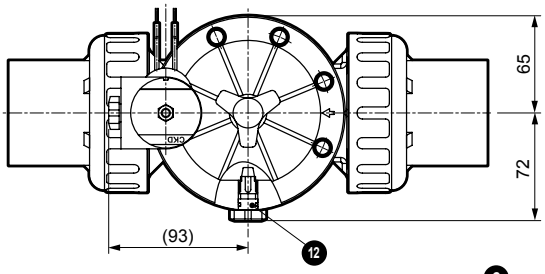
Internal structure and dimensions

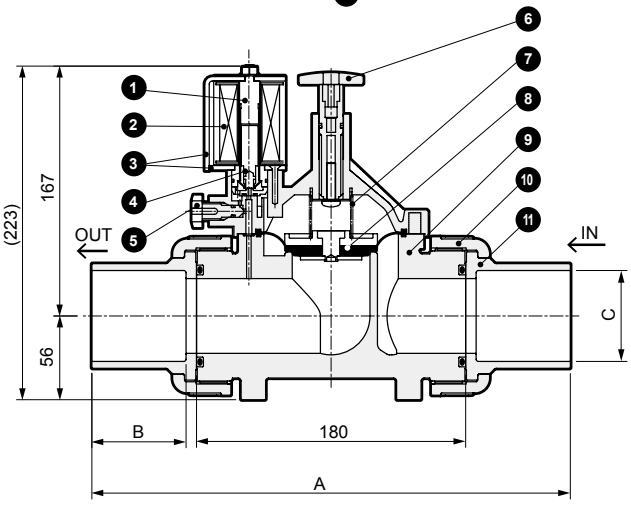
● GSV2-25U



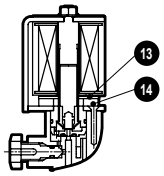


● GSV2-50U





● P: Latch



Dimensions		GSV2-20 *	GSV2-25 *	GSV2-40 *	GSV2-50 *
Connection: U	A	190	204	304	320
	B	35	40	55	63
	C	ø26.5	ø32.6	ø48.7	ø60.8
Connection: A	A	174	174	266	266
	C	Rc3/4	Rc1	Rc1 1/2	Rc2

No.	Part name	Material
1	Core assembly	SUS
2	Coil assembly	–
3	Core A/B	SUS
4	Plunger	SUS, NBR
5	Manual operation needle	PP
6	Flow rate adjusting handle	PP
7	Spring	SUS
8	Diaphragm assembly	NBR, PP, SUS
9	Body	PP
10	Union nut	PP
11	Union end	PVC (HITS), SUS
12	Pilot filter	PP, SUS
13	Ring plate	SUS (latch only)
14	Magnet	DPM-2 (latch only)

⚠ Precautions for bond piping of polyvinyl chloride pipes

* Always read the precautions in the instruction manual before starting use.
* GSV, GSV2 types : Observe the common precautions.

(1) Remove the union end from the solenoid valve and perform bonding. Bonding without removal may cause the adhesive to drip into the solenoid valve and result in a seal failure or opening/closing failure.

(2) The adhesive is a flammable hazardous material that contains an organic solvent. To prevent fire and explosions, do not use fire in the surroundings.

(3) Make sure to work with sufficient ventilation. Volatiles can adversely affect the human body.

(4) Note that solvent vapor will evaporate with more difficulty and be more likely to remain during work at low temperatures.

(5) Do not hit the polyvinyl chloride pipe with a hammer, etc.

(6) Be sure to perform chamfering. Failure to do so may result in adhesion failure.

(7) Do not over-apply the adhesive.