

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

Item		GSV2-20 *	GSV2-25 *	GSV2-40 *	GSV2-50 *
Working fluid		Water/agricultural water/diluted agricultural chemicals/liquid manure, etc. * Limited to fluids that will not cause corrosion of the wetted part materials.			
Max. working pressure	MPa	0.75			
Working pressure differential	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		Horizontal piping with the coil portion facing upwards or in vertical piping with the OUT port facing upward			
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
Drive method/voltage		Continuously energized: 24 VDC, 24/100/200 VAC (50/60 Hz), Latch pulse signal: P (voltage selection unnecessary) *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			

How to order

GSV2 - 50 U - P - AC100V

- 50: Ⓐ Nominal port size
- U: Ⓑ Connection
- P: Ⓒ Drive method
- AC100V: Ⓓ Voltage

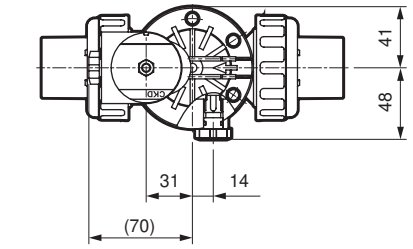
*1: The P type is dedicated for use with controllers manufactured by CKD. The voltage of the model No. is not required when placing an order.
Dedicated controller
- RSC-S5, RSC-G Series
- RSC-1WP, RSC-2WP

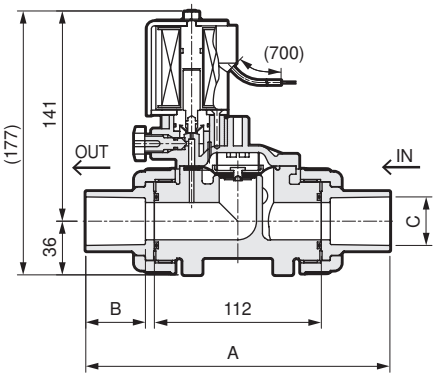
*2: For blank connection, prepare a separate union end and union nut. The O-ring is included.
*3: The AC coils are all equipped with rectifying surge suppressors. (Half-wave)
*4: 24 VDC is equipped with a surge suppressor element.

Code	Description
Ⓐ Nominal port size	
20	20A
25	25A
40	40A
50	50A
Ⓑ Connection	
U	Polyvinyl chloride fitting (socket)
Blank	Body only (no union end/union nut) *2
A	Taper pipe thread (Rc) (made to order)
Ⓒ Drive method	
Blank	Continuously energized
P	Latch pulse signal *1
Ⓓ 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 *4

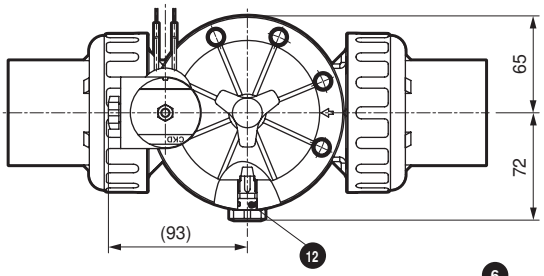
Internal structure and dimensions

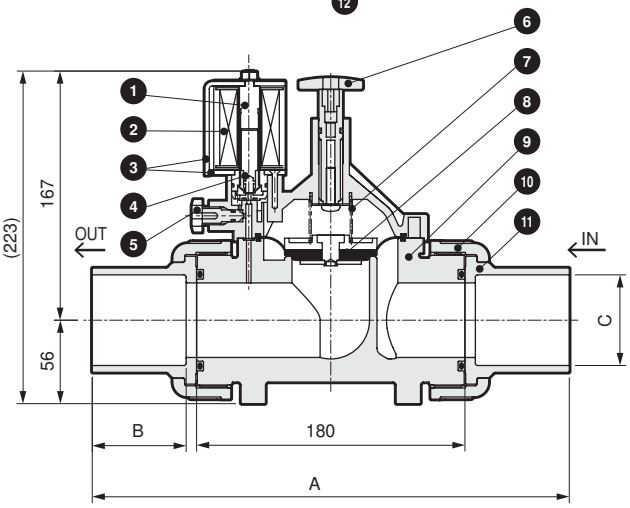
● GSV2-25U



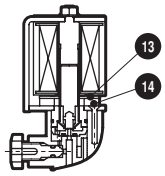


● GSV2-50U





●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)