

EXA
FWD
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
DryAir
EX-
XPLNprf
XPLNprf
HVB/
HVL
S ◇ B/
NAB
LAD/
NAD
Water-
Rela
NP/NAP/
NVP
SNP
CHB/G
MXB/G
Other
valves
SWD/
MWD
DustColl
CVE/
CVSE
CCH/
CPE/D
LifeSci
Gas-
Combus
**Auto-
Water**
Outdoor
SpecFld
Custom
Ending



Resin solenoid valve for automatic watering

GSV resin solenoid valve

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

Main applications

- Irrigation and watering for protected horticulture
- Watering of parks and urban greenery
- Watering of gardens and indoor and outdoor plantings

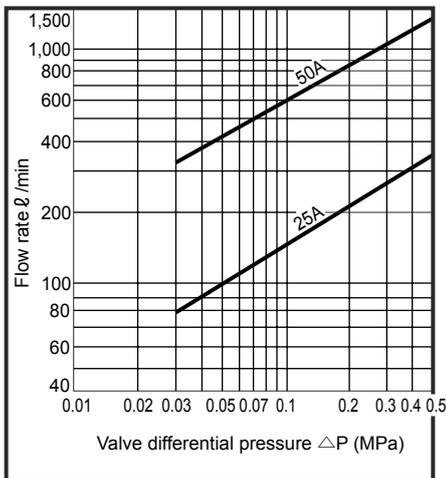
Overview

- Lightweight and low cost with a resin body
- Molded coil with excellent water resistance
- Diluted agricultural chemicals and liquid fertilizers can also be used *
- Equipped with a self-cleaning filter for pilot flow path protection
- Low water hammer
- Capable of battery control with a latch coil

Specifications

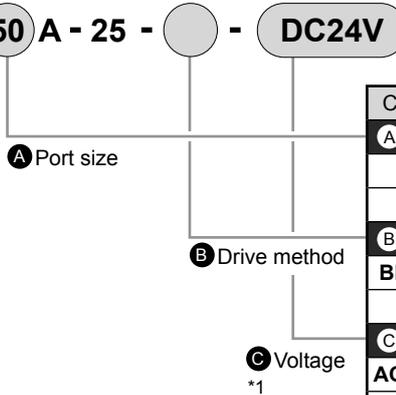
| Item | GSV-25A-25 | GSV-50A-25 |
|---|---|---------------|
| Working fluid | Water/agricultural water/diluted agricultural chemicals/liquid fertilizers, etc. * Limited to fluids that will not cause corrosion of the wetted part materials. | |
| Max. working pressure MPa | 0.5 (≈73 psi, 5 bar) | |
| Working pressure differential MPa | 0.03 (≈4.4 psi, 0.3 bar) to 0.5 (≈73 psi, 5 bar) | |
| Proof pressure (water pressure) MPa | 1.5 (≈220 psi, 15 bar) | |
| Fluid temperature °C | 4 (39.2°F) to 40 (104°F) (no freezing) | |
| Ambient temperature °C | 0 (32°F) to 50 (122°F) | |
| Valve seat leakage cm ³ /min | 0.1 or less (water) | |
| Orifice size mm | 25 | 50 |
| Cv | 10.4 | 42 |
| Mounting orientation | Mount with coil on top. | |
| Port size | Rc1 or equiv. | Rc2 or equiv. |
| Drive method/voltage | Continuously energized: 24 VDC, 24/100/200 VAC (50/60 Hz) Latch pulse signal: P (voltage selection unnecessary) *1 | |
| Weight kg | 1 | 1.6 |
| Rated voltage | 24 VDC, 24/100/200 VAC (50/60 Hz), P type *1 | |
| Power consumption W | AC/2.5, DC type/3 | |
| Thermal class | Class 130 (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 | |

Flow characteristics



How to order

GSV - **50** A - 25 - **DC24V**



| Code | Description |
|-----------------------|------------------------|
| A Port size | |
| 25 | Rc1 or equiv. |
| 50 | Rc2 or equiv. |
| B Drive method | |
| Blank | Continuously energized |
| P | Latch pulse signal *1 |
| C Voltage | |
| AC24V | 24 VAC 50/60 Hz *2 |
| AC100V | 100 VAC 50/60 Hz *2 |
| AC200V | 200 VAC 50/60 Hz *2 |
| DC24V | 24 VDC *3 |

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

*2 The AC coils are all equipped with rectifying surge suppressors. (Half-wave)
*3 The 24 VDC type is equipped with a surge suppressor device.

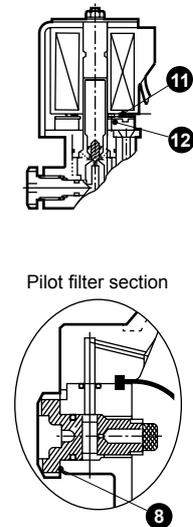
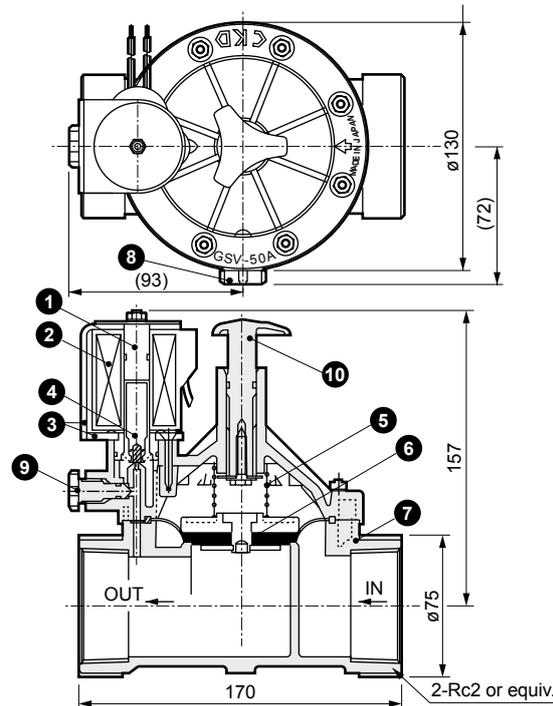
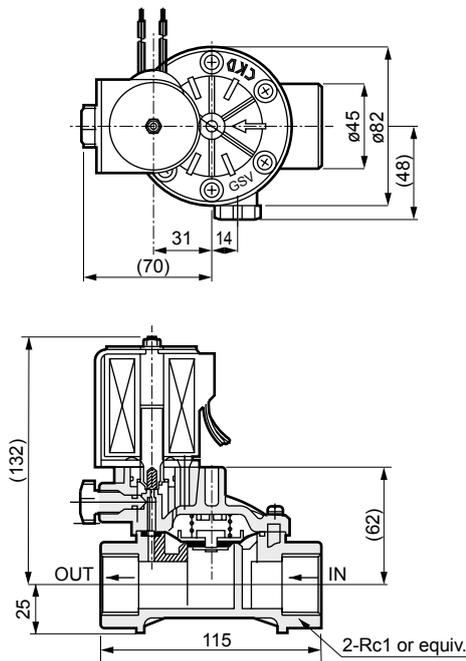
Internal structure and dimensions

○ Lead wire color coding: DC coil - red black, less than 200 VAC - blue, 200 VAC or more - red
 ○ Lead wire length: 700 mm

● GSV-25A-25

● GSV-50A-25

● P: Latch



| No. | Part name | Material | No. | Part name | Material |
|-----|--------------------|--------------|-----|----------------------------|---------------------|
| 1 | Core assembly | SUS430 | 7 | Body | PP |
| 2 | Coil | - | 8 | Pilot filter | PP, SUS |
| 3 | Core A/B | SUS430 | 9 | Manual operation needle | PP |
| 4 | Plunger | K-M31 | 10 | Flow rate adjusting handle | PP |
| 5 | Spring | SUS304 | 11 | Ring plate | SUS430 (latch only) |
| 6 | Diaphragm assembly | NBR, PP, SUS | 12 | Magnet | DPM-2 (latch only) |

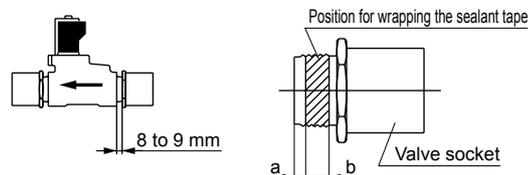
(Note) Components of No. 1, 4 to 10 are the wetted parts.

⚠ Precautions for valve socket piping

* Always read the precautions in the instruction manual before starting use.

* GSV, GSV2 types : Observe the common precautions.

Securely wrap sealant tape around the threaded part of the valve socket 5 times (50 A) or 3 times (25 A) and screw the socket in until the dimension of the part below the screw head is 8 to 9 mm, as shown below. Screwing the bolt too far in will cause damage. Do not use metal nipples.



| Bore size | Dimensions | | Tightening torque N·m |
|-----------|------------|----|-----------------------|
| | a | b | |
| 25A | 5 | 15 | 5.9 |
| 50A | 7 | 17 | 9.3 |

* When the piping is long (100 m or more), set the working pressure lower by approximately 20% to prevent water hammer from occurring.

| |
|-------------------|
| EXA |
| FWD |
| HNB/G |
| USB/G |
| FAB/G |
| FGB/G |
| FVB |
| FWB/G |
| FHB |
| FLB |
| AB |
| AG |
| AP/AD |
| APK/ADK |
| DryAir |
| EX-XPLNprf |
| XPLNprf |
| HVB/HVL |
| S/B/NAB |
| LAD/NAD |
| Water-Rela |
| NP/NAP/NVP |
| SNP |
| CHB/G |
| MXB/G |
| Other valves |
| SWD/MWD |
| DustColl |
| CVE/CVSE |
| CCH/CPE/D |
| LifeSci |
| Gas-Combus |
| Auto-Water |
| Outdoor |
| SpecFld |
| Custom |
| Ending |