

SAB/SVB/NAB

(Cylinder valve)

Air operated 2 port valve

■ For water, air, gas, low vacuum, steam

Overview

In addition to water, air, gas, low vacuum and steam, high viscosity fluids and powder mixed fluids are also available.

Using the external pilot air, this air operated cylinder valve is driven with the cylinder. Air operated type SAB, solenoid valve mounted type SVB, compact type NAB and manifold GNAB Series are available to meet needs of controlling various fluids.

Features

Wide variation

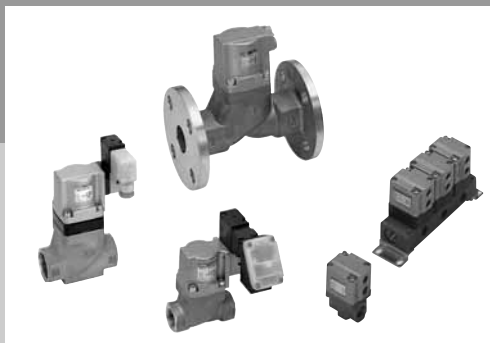
Rc1/4 to 80 flange are available in accordance with port size.

Available in flammable environment

3 actuations

3 types: NC (normally closed), NO (normally open) and double acting are available.

Cylinder driven with external pilot air ensures certain operations.



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| Air operated type (port size Rc1/4 to Rc2, 32 to 80 flange) | |
| ● Water, liquid | SAB*W 446 |
| ● Air | SAB*A 450 |
| ● Low vacuum | SAB*V 454 |
| ● Steam, water, air | SAB*S 458 |
| Solenoid valve mounted type (port size Rc1/4 to Rc2, 32 to 80 flange) | |
| ● Water, liquid | SVB*W 462 |
| ● Air | SVB*A 470 |
| ● Low vacuum | SVB*V 474 |
| ● Steam, water, air | SVB*S 478 |
| Compact air operated type (port size Rc1/4, Rc3/8) | |
| Discrete | |
| ● Air, gas, water | NAB* 484 |
| ● Low vacuum, air, water | NAB*V 486 |
| Manifold | |
| ● Air, gas, water | GNAB* 488 |
| ● Low vacuum, air, water | GNAB*V 492 |
| Electronic Catalog file list | 496 |

▲ Always read the precautions in the Introduction and page 440 before starting use.

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/
AD

APK/
ADK

For
dry air

Explosion
proof

HVB/
HVL

SAB/
SVB

NP/NAP/
NVP

CHB/G

MXB/G

Other G.P.
systems

PD/FAD/
PJ

CVE/
CVSE

CPE/
CPD





Medical
analysis

Custom
order

Cylinder valve
Air operated 2 port valve

Series variation

Air operated 2 port valve (cylinder valve)

| Category | | Model | No. of port | Actuation | | | Rc1/4 | Rc3/8 | Rc1/2 | |
|------------------------|---|-------------------------|-------------|-----------|----|-------------------------|-------|-------|-------|--|
| | | | | NC | NO | Double acting operation | | | | |
| Cylinder valve | Air operated type  | Water, liquid SAB*W | 2 port | ● | ● | ● | ● | ● | ● | |
| | | Air, gas SAB*A | | ● | ● | ● | ● | ● | ● | |
| | | Low vacuum SAB*V | | ● | ● | ● | ● | ● | ● | |
| | | Steam, water, air SAB*S | | ● | ● | ● | ● | ● | ● | |
| | Solenoid valve mounted type  | Water, liquid SVB*W | | ● | ● | | ● | ● | ● | |
| | | Air, gas SVB*A | | ● | ● | | ● | ● | ● | |
| | | Low vacuum SVB*V | | ● | ● | | ● | ● | ● | |
| | | Steam, water, air SVB*S | | ● | ● | | ● | ● | ● | |
| Compact cylinder valve | Air operated type  | General purpose NAB* | ● | ● | ● | ● | ● | | | |
| | | Low vacuum NAB*V | ● | ● | ● | ● | ● | | | |
| | Air operated type manifold  | General purpose GNAB* | ● | ● | ● | ● | ● | ● | | |
| | | Low vacuum GNAB*V | ● | ● | ● | ● | ● | ● | | |

| | Port size | | | | | | | | | | Page |
|--|-----------|-----|---------|-----------|---------|-----------|-----|-----------|-----------|-----------|------|
| | Rc3/4 | Rc1 | Rc1 1/4 | 32 flange | Rc1 1/2 | 40 flange | Rc2 | 50 flange | 65 flange | 80 flange | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 446 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 450 |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | 454 |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | 458 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 462 |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | 470 |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | 474 |
| | ● | ● | ● | ● | ● | ● | ● | ● | | | 478 |
| | | | | | | | | | | | 484 |
| | | | | | | | | | | | 486 |
| | | | | | | | | | | | 488 |
| | | | | | | | | | | | 492 |

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/
ADAPK/
ADKFor
dry airExplosion
proofHVB/
HVLSAB/
SVBNP/NAP/
NVP

CHB/G

MXB/G

Other G.P.
systemsPD/FAD/
PJCVE/
CVSECPE/
CPDMedical
analysisCustom
orderCylinder valve
Air operated 2 port valve



Safety precautions

Always read this section before starting use.

Air operated 2 port valve (cylinder valve)

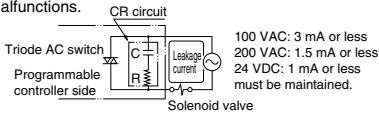
Design & Selection

1. Safety Designing

CAUTION

Leakage current from other fluid control components

When operating the solenoid valve with a programmable controller, etc., check that the output leakage current from the programmable controller is within the following specifications. Failure to observe this could lead to malfunctions.



2. Working Fluid

WARNING

Working fluid

- Do not use this product for fluids other than applicable fluids in catalog specifications.
- Before starting use, check the compatibility between the product and working fluid with the working fluid check list (page 36 in Introduction).
- The durability of the rod packing seal (MY packing seal) drops if working fluid quality is poor and contains powder, sludge or foreign matter.
If rod packing sealing is poor, working fluid could leak into the cylinder and flow back into pilot air piping, damaging the devices in the air circuit.
Conduct regular maintenance or take appropriate measures.

Special purpose grease

For cylinder valve, grease is applied to the piston rod sealing sections. When using special fluids, specify the type of grease.

- (Example) Oxygen: fluorine grease
Medium vacuum: silicone grease
Fluids for foods: vaseline
Dry air for painting: vaseline

Fluid temperature

Use within the fluid temperature range.

CAUTION

External pilot air

- Drainage measures - Compressed air contains high levels of drainage (water, oxidized oil, tar, foreign matter) that can significantly reduce the reliability of pneumatic components. As measures against drain, improve air quality by dehumidifying with an after cooler or dryer, removing foreign matter with a filter, and removing tar with a tar removal filter, etc.
- Pre-lubrication - This series is pre-lubricated, so no lubricator is required. However, once lubrication has been started, it must be continued so that the lubricant is not used up. For lubrication, use the turbine oil Class 1 ISO VG32 (#90) or equivalent.
- Filter - Install a filter with a 5 µm or less filter element.

3. Working Environment

WARNING

- SVB Series cannot be used in an explosive gas atmosphere. When using in an explosive gas atmosphere, change to the SAB Series, and provide a separate explosion proof solenoid valve on the pilot air circuit.**
- If there are high levels of dust in the area, install a downward-facing silencer or elbow joint on the exhaust port so that dust does not enter.**
- When using in a place where water splashes on the valve, take appropriate measures to protect it.**

Installation & Adjustment

1. Piping

CAUTION

- Do not mistake the supply port when piping to the product.**

- Do not pipe using the solenoid valve section. There is a risk of damage. (For solenoid valve mounted type)**

Individual precautions

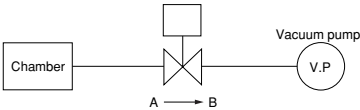
- Check the pilot operation side supply port when piping the GNAB Series.

| Model no. | Pilot operation side supply port |
|--------------|----------------------------------|
| GNAB1/GNAB1V | X |
| GNAB2/GNAB2V | Y |
| GNAB3/GNAB3V | X and Y |

- When piping the SAB or SVB Series, pay attention to the supply ports on the unit and pilot operation sides.

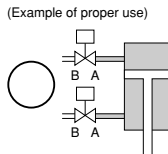
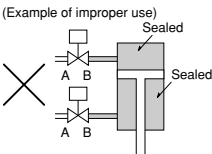
| Model no. | Unit side supply port | Pilot operation side supply port |
|------------|-----------------------|----------------------------------|
| NAB1-8/10 | A or B | X |
| NAB2-8/10 | A or B | Y |
| NAB3-8/10 | A or B | X and Y |
| NAB1V-8/10 | A | X |
| NAB2V-8/10 | A | Y |
| NAB3V-8/10 | A | X and Y |
| SAB1W | A | X |
| SAB2W | A | Y |
| SAB3W | A | X and Y |
| SAB1A | B | X |
| SAB2A | A | Y |
| SAB3A | A or B | X and Y |
| SAB1V | A | X |
| SAB2V | A | Y |
| SAB3V | A | X and Y |
| SAB1S | B | X |
| SAB2S | A | Y |
| SAB3S | A or B | X and Y |
| SVB1W | A | P |
| SVB2W | A | P |
| SVB1A | B | P |
| SVB2A | A | P |
| SVB1V | A | P |
| SVB2V | A | P |
| SVB1S | B | P |
| SVB2S | A | P |

- Note 1) With NAB₂-8/10, when both ports A and B are pressurized, connect port A to the normally pressurized side. If port B is connected to the normally pressurized side, the durability could drop further than when port A is connected.
- Note 2) With the SAB₃V or SVB₃V side port, connect the chamber (vacuum holding side) to port A.

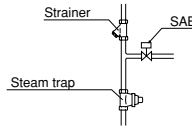


Note that when using for vacuum break, etc., set the pressurized port to port A.

- When operating a hydraulic cylinder with a cylinder valve for water, if the valve's port B is piped to the cylinder, pressure in the port and piping rises and excessive pressure is applied on the valve body, leading to damage. In this case, pipe the valve's port A to the cylinder side.



- When using the valve for steam, external leaks could occur depending on fluid properties. Install a steam trap by inclining piping, etc., and remove drainage to prevent the inside of the pipe from rusting.



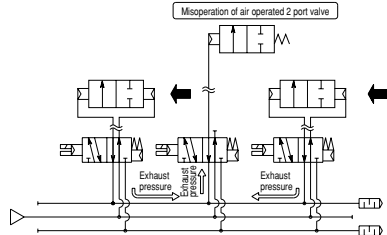
- Refer to the table below for tightening torque of the pilot air piping.

| Nominal pipe diameter | Recommended pipe tightening torque (N·m) |
|-----------------------|--|
| Rc1/8 | 7 to 9 |

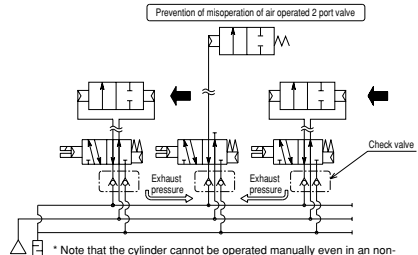
- If a manifold is used on the SAB Series operation valve, exhaust pressure could be led in from other valves, which causes malfunctions such as momentary opening of the SAB. When using a manifold, use a valve with a built-in "check valve". Similar problems could occur if exhaust is led in from the SVB Series exhaust (R) port, so when piping the exhaust (R) port, do not connect with other exhaust circuits.

- A check valve is built into CKD pilot operated 3/5 port valve 4G Series.

Example of pneumatic pressure that could misoperate



Pneumatics system using 4G Series



* Note that the cylinder cannot be operated manually even in a non-pressurized state.

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
SAB/
SVB
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve
Air operated 2 port valve

Installation & Adjustment

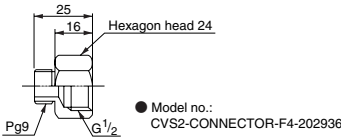
2. Wiring

CAUTION

■ When using an explosion proof solenoid valve, follow the Recommended Practices for Explosion-protected Electrical Installations in General Industries when wiring.

Wiring of solenoid valve mounted type

- (1) Refer to connections in pages 54 to 55 in the Introduction when wiring to a DIN terminal box or T type terminal box.
- (2) The size of the screw for the junction box outlets of the DIN terminal box can be changed from Pg9 to G1/2 using the optional connector below.



- (3) Coil direction can be changed 180°. To reverse the electrical connection direction, rotate only the coil. Do not lose internal parts when removing the coil.

During Use & Maintenance

1. Maintenance & Inspection

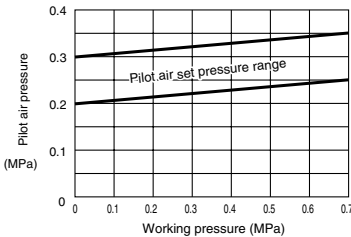
CAUTION

Pilot air pressure

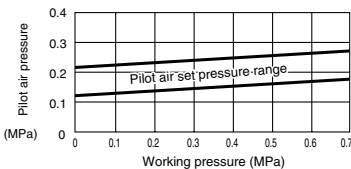
Use pilot air pressure in accordance with the specifications. Set the pilot pressure for the SAB/SVB Series NO type and double acting type as shown in the graph below. A sealing fault could occur if pressure is set less than the range shown in the graph at right.

The NC type should be selected when the pilot air cannot be controlled.

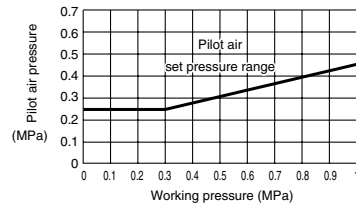
● NAB_{2V} Series/GNAB_{2V} Series



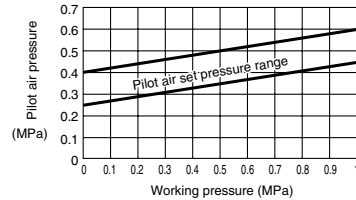
● NAB_{3V} Series/GNAB_{3V} Series



● SAB_{3V}^{2W} Series/SVB_{2V}^{2W} Series



● SAB_{3S} Series/SVB_{2S} Series



2. Assembling & Disassembling

WARNING

■ A spring is used in the cylinder cover. When disassembling this type, the spring could pop out and cause injuries, so take care.

The NC (normally closed) type has a snap ring to prevent the spring from popping out. Do not remove the snap ring.

Individual precautions

■ Assembling pilot solenoid valve (for solenoid valve mounted type)

If the pilot solenoid valve has been disassembled, assemble it as follows.

(1) Coil side

· Disassembling

Loosen the cross headed pan head machine screw, and lift up the coil assembly.

The outer spring, plunger assembly and O ring can be removed.

· Reassembling

Set the parts in the sequence of the O ring, plunger assembly, outer spring and coil assembly.

Tighten the cross headed pan head machine screw with a torque of 0.7 to 1.1 N·m.

(2) Cover side

· Disassembling

Loosen the flat headed cross cut screw, and remove the cover.

The valving element spring, valving element guide assembly and O ring can be removed.

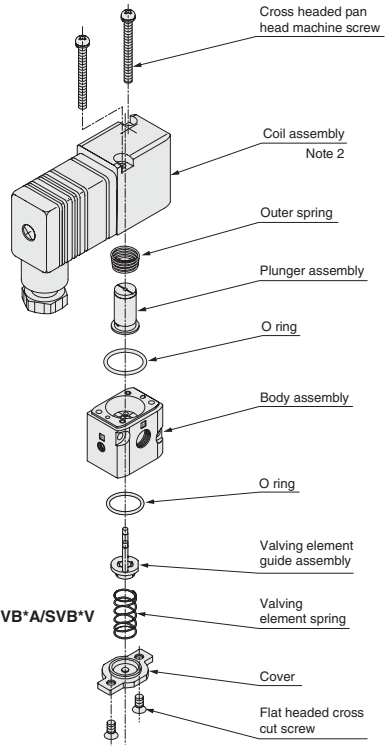
· Reassembling

Set the parts in the sequence of the O ring, valving element guide assembly, valving element spring and cover. Tighten the flat headed cross cut screw with a torque of 0.7 to 1.1 N·m.

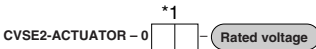
Note 1: Do not lose the components such as springs during disassembly.

Note 2: The coil assembly direction can be changed 180°. Loosen the cross headed pan head machine screw to change the direction.

Note 3: Turbine oil is applied to the plunger as a lubricant.

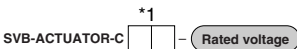


■ Model no. of pilot solenoid valve (actuator assembly kit) for SVB*W/SVB*A/SVB*V



* Indicate the coil option symbol in field *1.

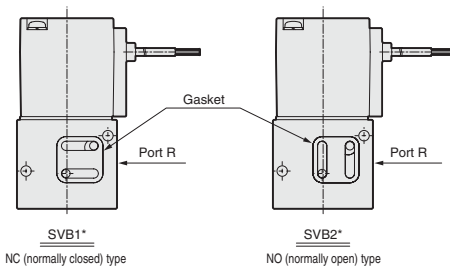
■ Model no. of pilot solenoid valve (actuator assembly kit) for SVB*S



* Indicate the coil option symbol in field *1.

■ Gasket direction (for solenoid valve mounted type)

The gasket has an orientation. Check the orientation when reassembling.



| |
|-----------------------|
| HNB/G |
| USB/G |
| FAB/G |
| FGB/G |
| FVB |
| FWB/G |
| FHB |
| FLB |
| AB |
| AG |
| AP/ AD |
| APK/ ADK |
| For dry air |
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| NP/NAP/ NVP |
| CHB/G |
| MXB/G |
| Other G.P. systems |
| PD/FAD/ PJ |
| CV/ CVSE |
| CPE/ CPD |
| Medical analysis |
| Custom order |

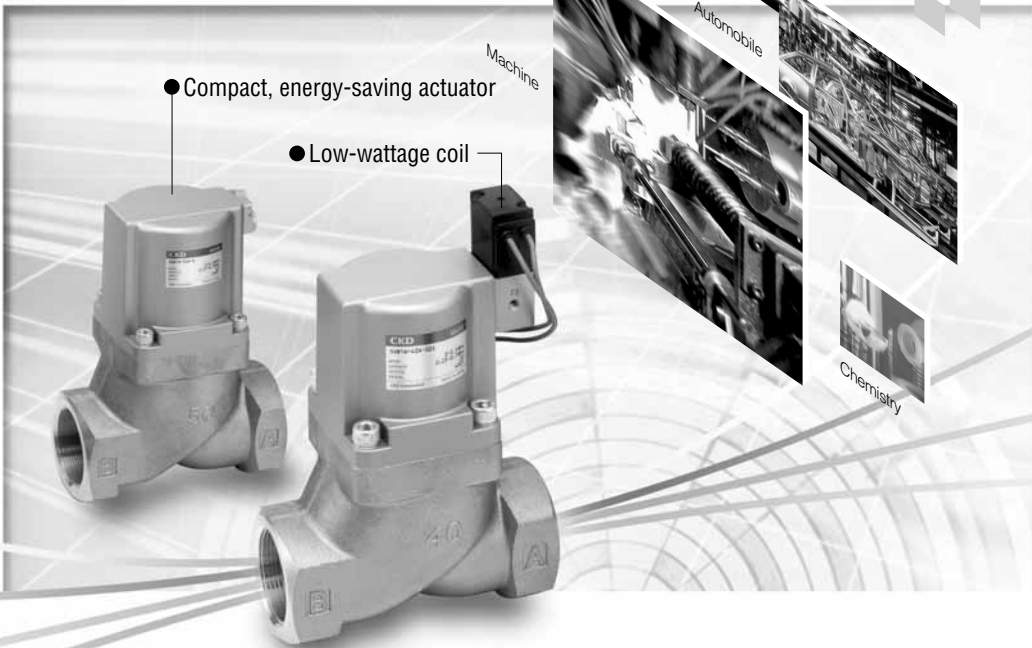
Cylinder valve
Air operated 2 port valve

Controlling various fluids for various applications

SAB/SVB Series for achieving higher energy saving performance and ultimate compact size

Ultimate compact size is realized in “Small” and “Smart” concept.

Incorporating new flow path in the body, remarkably compact actuators with conventional products’ performance are now available.



Stable operation, durable to foreign materials and compatible with various fluids

● Usable from water, ● air, gas, ● low vacuum, ● steam to high viscosity fluids or powder mixed fluids, etc., and compatible with wide applications.

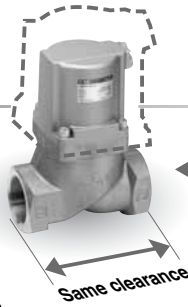
SAB·SVB Series
Air operated 2 port valve

Compact and energy saving

Operation air consumption reduced by up to 40% (*1)
Actuator size (volume) reduced by up to 50% (*2)

*1: Comparison with conventional NAB Series

*2: Excluding port size 65F and 80F



● Actuator

Volume up to **50% downsized**

Air consumption up to **40% cut**

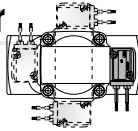
*Body face-to-face dimensions are compatible with conventional NAB Series.

Power consumption reduced by 50%

Power consumption is reduced to 2 W from conventional 4 W (DC).

Free mounting of actuator

Mounting direction interchangeable in 4 directions



Wide variation

Two body materials (bronze and stainless steel) and four sealant materials (nitrile rubber, fluoro rubber, ethylene propylene diene rubber and tetrafluoroethylene resin) are available according to the working fluid. In addition, 13 port sizes and three actuation methods are available, and a type with solenoid valve for cylinder drive has been added to the series. Select the perfect valve from our diverse selection.

Safe and reliable operation

Cylinders driven by external pilot air.
Equipped with high reliability which ensures solid operation, resistance against foreign materials and worry-free use.

Steam valve with solenoid valve added to lineup

Air operated type and solenoid valve mounted type are newly added to the series. This CKD original solenoid valve mounted type is realized with advanced technologies including new heat resistant materials and insulation materials.

Usable in flammable environment

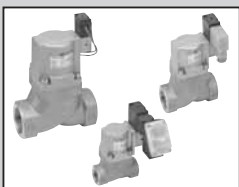
Due to perfect air operated structure, SAB can be used in flammable environment.

SAB/SVB Series variation

| Model | Applicable fluid | Port size | | | | | | | | | |
|--------------|-------------------|-----------|-----|-----|-----|-----|-------|-------|-------|-----|-----|
| | | 8A | 10A | 15A | 20A | 25A | 32A·F | 40A·F | 50A·F | 65F | 80F |
| 2 port valve | | | | | | | | | | | |
| SAB · SVB※W | New Water, liquid | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SAB · SVB※A | New Air, gas | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SAB · SVB※V | New Low vacuum | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SAB · SVB※S | New Steam | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
SAB/
SVB
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve
Air operated 2 port valve



Air operated 2 port valve with solenoid valve
(cylinder valve)

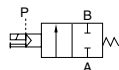
SVB*W Series

- NC (normally closed) type, NO (normally open) type
- Port size: Rc1/4 to Rc2, 32 to 80 flange
- Working fluid: water, non-corrosive fluids

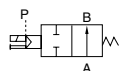


JIS symbol

- NC (normally closed) type



- NO (normally open) type



Common specifications

| Item | SVB1W | SVB2W |
|--|---|-------------------------|
| Actuation | NC (normally closed) type | NO (normally open) type |
| Working fluid | Water, non-corrosive fluids (*1) | |
| Fluid viscosity mm ² /s | 500 or less | |
| Working pressure range MPa | 0 to 0.7 (*2) | 0 to 1 |
| Withstanding pressure (water) MPa | 2.0 | |
| Fluid temperature °C | -10 to 60 (no freezing) | |
| Ambient temperature °C | -10 to 60 | |
| Valve seat leakage cm ³ /min. | 0 (water) | |
| Mounting attitude | Free | |
| Water hammer (reference) MPa | 1 or less (according to the Water Supply Law) | |

*1: Refer to the working fluid check list in page 36 of the Introduction.

*2: Note that this differs with the type, so refer to the working pressure range in the individual specifications.

| Electric specifications | | |
|--|----------------------------|--|
| Rated voltage | | 100 VAC (50/60 Hz), 110 VAC (60 Hz), 200 VAC (50/60 Hz), 220 VAC (60 Hz), 24 VDC |
| Apparent power (VA) | Holding | 3.6 (50 Hz), 2.8 (60 Hz) |
| | Starting | 11 (50 Hz), 9 (60 Hz) |
| Power consumption (W) | AC | 1.9 (50 Hz), 1.5 (60 Hz) |
| | DC | 2.0 |
| Heat proof class | | B |
| Protective structure (IEC standards 529) | Grommet lead wire | IPX2 |
| | DIN terminal box (Pg9) | IPX5 |
| | T type terminal box (G1/2) | IPX5 |

Note 1: Allowable voltage range must be within ±10% of the rated voltage.

Individual specifications

| Item Model no. | Port size | Orifice (mm) | Cv flow factor | Working pressure range (MPa) | | Pilot air pressure (MPa) | | Pilot port size | Weight (kg) | |
|-------------------|-----------|-----------------|-------------------|------------------------------|---------|--------------------------|---------|--------------------|-------------|---------|
| | | | | NC type | NO type | NC type | NO type | | NC type | NO type |
| SVB*W-8A | Rc1/4 | 10 | 2.3 | 0 to 0.7 | 0 to 1 | 0.35 to 0.7 | (*1) | Rc1/8 | 0.5 | |
| SVB*W-10A | Rc3/8 | 10 | 2.6 | | | | | | 0.5 | |
| SVB*W-15A | Rc1/2 | 15 | 5.6 | | | | | | 0.8 | |
| SVB*W-20A | Rc3/4 | 16 | 8 | | | | | | 1 | |
| SVB*W-25A | Rc1 | 20 | 12 | | | | | | 1.3 | |
| SVB*W-32A | Rc1 1/4 | 26 | 20 | 0 to 0.5 | 0 to 1 | 0.25 to 0.7 | (*1) | Rc1/8 | 2.5 | 2.4 |
| SVB*W-32F | 32 flange | 26 | 20 | | | | | | 5.5 | 5.4 |
| SVB*W-40A | Rc1 1/2 | 32 | 32 | | | | | | 3.6 | 3.4 |
| SVB*W-40F | 40 flange | 32 | 32 | | | | | | 6.7 | 6.5 |
| SVB*W-50A | Rc2 | 42 | 50 | | | | | | 5.7 | 5.4 |
| SVB*W-50F | 50 flange | 42 | 50 | | | | | | 9.6 | 9.3 |
| SVB*W-65F (*2) | 65 flange | 65 | 70 | | | | | | 20.5 | 19 |
| SVB*W-80F (*2) | 80 flange | 79 | 100 | | | | | | 25 | 23 |

*1: Refer to page 442 for the pilot air pressure for the NO type.

*2: Port size 65 and 80 flanges are custom order.

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/
AD

APK/
ADK

For
dry air

Explosion
proof

HVB/
HVL

SAB/
SVB

NP/NAP/
NVP

CHB/G

MXB/G

Other G.P.
systems

PD/FAD/
PJ

CVE/
CVSE

CPE/
CPD

Medical
analysis

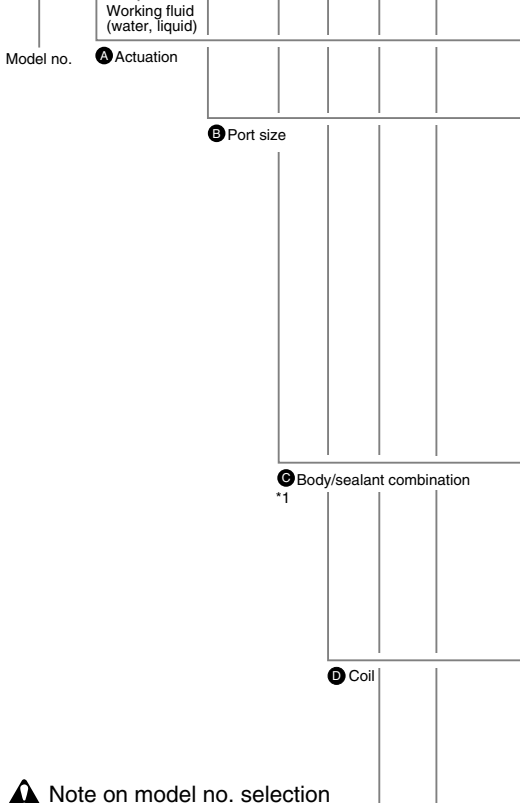
Custom
order

Cylinder valve with solenoid valve
Air operated 2 port valve

How to order

● Solenoid valve mounted type

SVB **1** **W** - **15A** - **B** **2G** **S** - - **AC100V**



| Symbol | Descriptions | | |
|---|---|------------------------------------|---------------------------------|
| A Actuation | | | |
| 1 | NC (normally closed) type | | |
| 2 | NO (normally open) type | | |
| B Port size | | | |
| 8A | Rc1/4 | | |
| 10A | Rc3/8 | | |
| 15A | Rc1/2 | | |
| 20A | Rc3/4 | | |
| 25A | Rc1 | | |
| 32A | Rc1 1/4 | | |
| 32F | 32 flange | | |
| 40A | Rc1 1/2 | | |
| 40F | 40 flange | | |
| 50A | Rc2 | | |
| 50F | 50 flange | | |
| 65F | 65 flange (custom order) | | |
| 80F | 80 flange (custom order) | | |
| C Body/sealant combination | | | |
| | | Body | Sealant |
| 0 | Std. | Bronze | Nitrile rubber |
| B | Option | Bronze | Fluoro rubber |
| P | | Bronze | Ethylene propylene diene rubber |
| D | | Stainless steel | Nitrile rubber |
| E | | Stainless steel | Fluoro rubber |
| R | | Stainless steel | Ethylene propylene diene rubber |
| D Coil | | | |
| 2C | Std. | Grommet lead wire | |
| 2G | Option | DIN terminal box (Pg9) | |
| 2H | | DIN terminal box + light (Pg9) | |
| 3T | | T type terminal box (G1/2) | |
| 3R | | T type terminal box + light (G1/2) | |
| E Other options | | | |
| Blank | No options | | |
| S | Surge suppressor | | |
| B | Mounting plate | | |
| F Assembly direction | | | |
| Blank | No options | | |
| X | Cylinder cover 90° rotation | | |
| Y | Cylinder cover 180° rotation | | |
| Z | Cylinder cover 270° rotation | | |
| R | Coil 180° reverse rotation (solenoid valve mounted type) | | |
| | Mounting plate/coil 180° reverse rotation (solenoid valve mounted type) | | |
| Refer to the following page for the layout drawing. | | | |
| G Voltage | | | |
| AC100V | 100 VAC 50/60 Hz | | |
| | 110 VAC 60 Hz | | |
| AC200V | 200 VAC 50/60 Hz | | |
| | 220 VAC 60 Hz | | |
| DC24V | 24 VDC | | |

⚠ Note on model no. selection

- *1: The body/sealant combination symbol is O or B for port size 65F and 80F. Note that the body is made of cast iron.
- *2: The mounting plate (B) is available for port size 8A to 32A.
- *3: Indicate SB in C to select both surge suppressor and mounting plate.
- *4: The surge suppressor is an accessory for the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.
- *5: A manual override (non-locking) is provided as standard.
- *6: An optional assembly direction is available for 8A to 50F.

<Example of model number>

SVB1W-15A-B2GS-AC100V

Model no.: SVB

A Actuation: NC (normally closed) type

B Port size: Rc1/2

C Body/sealant combination

: Body - bronze, sealant - fluoro rubber

D Coil: DIN terminal box (Pg9)

E Other options: Surge suppressor

F Assembly direction: No options

G Voltage: 100 VAC 50/60 Hz, 110 VAC 60 Hz

F Assembly direction

| SVB (solenoid valve mounted type) *7 | | | | | |
|--------------------------------------|------------------|-----------------------------|------------------------------|------------------------------|-----------------------|
| Symbol | Blank (standard) | X *6 | Y *6 | Z *6 | R *6 |
| Direction | Without rotation | Cylinder cover 90° rotation | Cylinder cover 180° rotation | Cylinder cover 270° rotation | Coil reverse rotation |
| Arrangement | B A | B A | B A | B A | B A |
| | | | | | |

| SVB (solenoid valve mounted type) *2/7 | | | | | |
|--|--------------------|-----------------------------|---|---|--|
| Symbol | B (mounting plate) | B-X *6 | B-Y *6/8 | B-Z *6/8 | B-R *6/9 |
| Direction | Without rotation | Cylinder cover 90° rotation | Cylinder cover 180° rotation Mounting plate reverse rotation | Cylinder cover 270° rotation Mounting plate reverse rotation | Coil reverse rotation Mounting plate reverse rotation |
| Arrangement | B A | B A | B A | B A | B A |
| | | | | | |

*7: Clockwise rotation angles are shown as viewed from above with port A facing right.

*8: The mounting plate is assembled on the 180° opposite side.

*9: The mounting plate for port size 10A is installed at the bottom, so only the coil position is reversed.

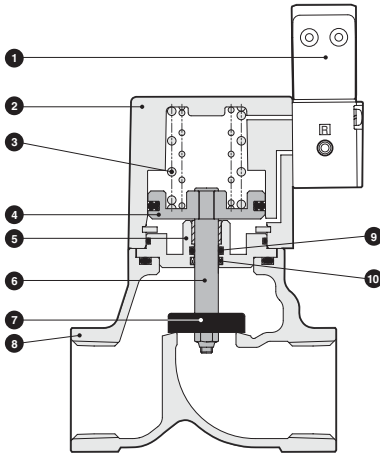
◀ indicates pilot port IN.

- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/
AD
- APK/
ADK
- For
dry air
- Explosion
proof
- HVB/
HVL
- SAB/
SVB
- NP/NAP/
NVP
- CHB/G
- MXB/G
- Other G.P.
systems
- PD/FAD/
PJ
- CV/
CVSE
- CPE/
CPD
- Medical
analysis
- Custom
order

Cylinder valve with solenoid valve
Air operated Z port valve

Internal structure and parts list

● SVB1W



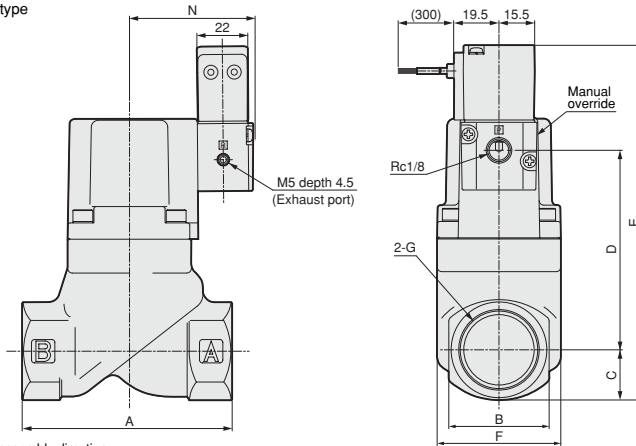
| No. | Parts name | Material | |
|-----|----------------------|---------------------------|--|
| 1 | Pilot solenoid valve | - | - |
| 2 | Cylinder cover | ADC12 | Aluminum die casting |
| 3 | Spring | SWP | Piano wire |
| 4 | Piston | A2017 | Aluminum |
| 5 | Adaptor | C3604 (SUS304) | Brass (stainless steel) |
| 6 | Piston rod | SUS304 | Stainless steel |
| 7 | Main valving element | NBR (FKM, EPDM) SUS304 | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) Stainless steel |
| 8 | Body | CAC407 (SCS13) | Bronze casting (stainless steel casting) |
| 9 | O ring | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |
| 10 | MY packing seal | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |

*1: () shows options.

*2: For 65F and 80F, the body is made of FC250 (cast iron), and the main valving element is made of FKM.

Dimensions (Page 496)

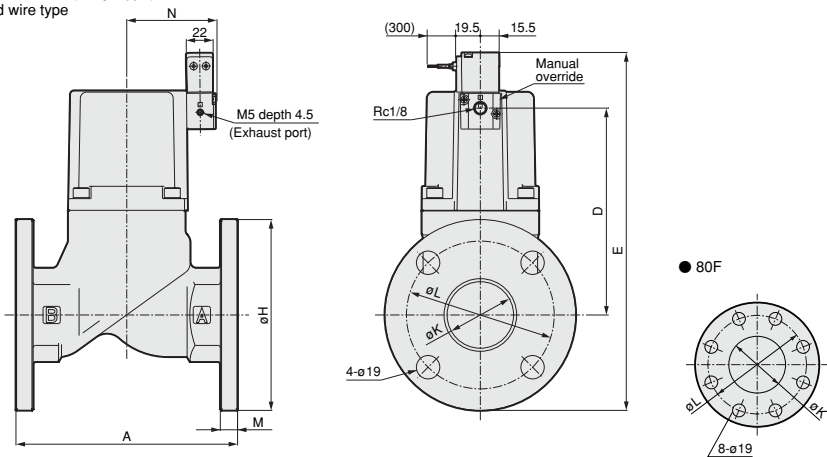
- SVB*W-8A to 50A*2C (Rc screw-in type)
Grommet lead wire type



* Shown without optional assembly direction.

| Model no. | A | B | C | D | E | F | G | N |
|-----------|-----|----|------|-------|-------|----|---------|------|
| SVB*W-8A | 50 | 24 | 12 | 45.5 | 102.5 | 32 | Rc1/4 | 48.5 |
| SVB*W-10A | | | | | | | Rc3/8 | |
| SVB*W-15A | 71 | 28 | 14.5 | 65.5 | 125 | 43 | Rc1/2 | 49.5 |
| SVB*W-20A | 80 | 35 | 17.5 | 75 | 137.5 | 43 | Rc3/4 | 49.5 |
| SVB*W-25A | 90 | 43 | 21 | 85.5 | 151.5 | 53 | Rc1 | 53 |
| SVB*W-32A | 125 | 55 | 27.5 | 113.5 | 186 | 63 | Rc1 1/4 | 57.5 |
| SVB*W-40A | 140 | 61 | 30.5 | 134.5 | 210 | 77 | Rc1 1/2 | 64.5 |
| SVB*W-50A | 160 | 76 | 38 | 168 | 251 | 95 | Rc2 | 72.5 |

- SVB*W-32F to 80F*2C (flange type)
Grommet lead wire type



* Shown without optional assembly direction.

| Model no. | A | D | E | H | K | L | M | N |
|-----------|-----|-------|-------|-----|----|-----|----|------|
| SVB*W-32F | 170 | 113.5 | 226 | 135 | 36 | 100 | 12 | 57.5 |
| SVB*W-40F | 180 | 134.5 | 249.5 | 140 | 42 | 105 | 12 | 64.5 |
| SVB*W-50F | 180 | 168 | 291 | 155 | 54 | 120 | 14 | 72.5 |
| SVB*W-65F | 210 | 203 | 347.5 | 175 | 68 | 140 | 16 | 113 |
| SVB*W-80F | 240 | 218 | 367.5 | 185 | 82 | 150 | 16 | 123 |

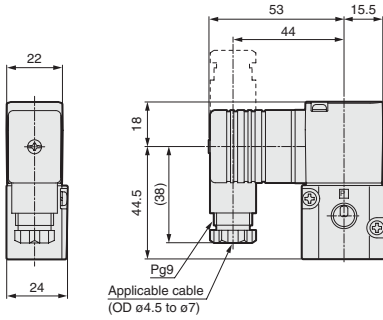
HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
SAB/
SVB
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve with solenoid valve
Air operated 2 port valve

Optional dimensions (Page 496)

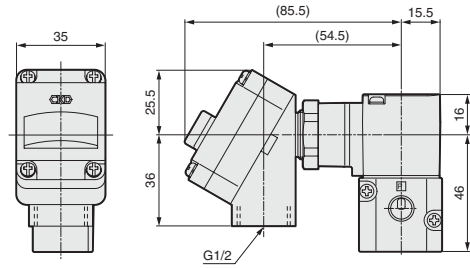
- DIN terminal box (Pg9), DIN terminal box + light (Pg9)

SVB*W-**-**2G**
2H



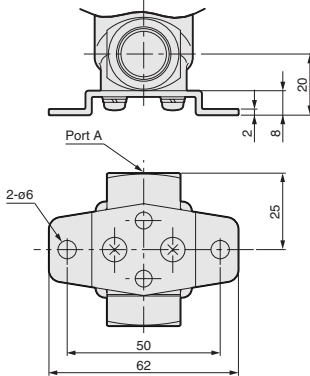
- T type terminal box (G1/2), T type terminal box + light (G1/2)

SVB*W-**-**3T**
3R






- Mounting plate

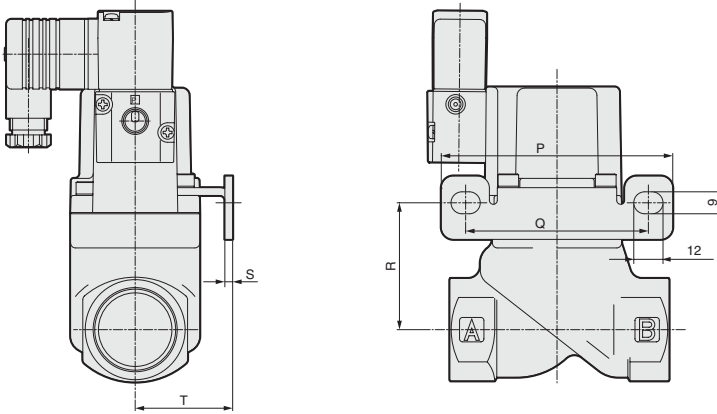
SVB*W-8A/10A-**-**B**






* Use the body set screws if fixing without a mounting plate.
(Thread size: M4 depth 8 pitch 19)

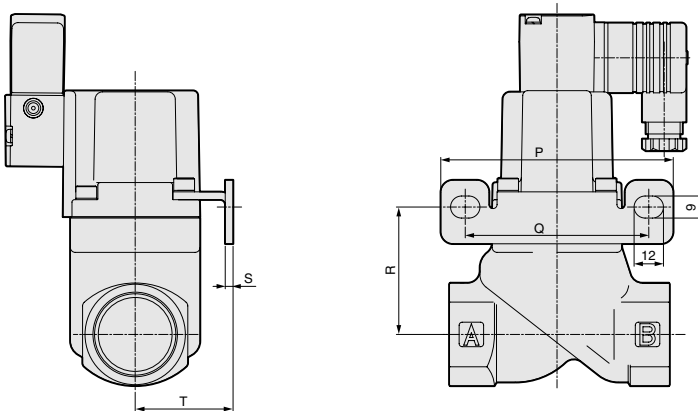
Optional dimensions (Page 496)


- Mounting plate
SVB*W-15A to 32A**  /  / 



* Figure shows .

- Mounting plate
SVB*W-15A to 32A**  / 

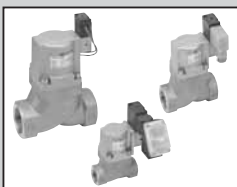


* Figure shows .

| Model no. | P | Q | R | S | T |
|-----------|-----|----|------|-----|----|
| SVB*W-15A | 90 | 70 | 39 | 2.3 | 30 |
| SVB*W-20A | 90 | 70 | 48.5 | 2.3 | 30 |
| SVB*W-25A | 95 | 75 | 52 | 3.2 | 40 |
| SVB*W-32A | 105 | 85 | 66.5 | 3.2 | 45 |

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
**SAB/
SVB**
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve with solenoid valve
Air operated 2 port valve



Air operated 2 port valve with solenoid valve
(cylinder valve)

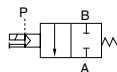
SVB*A Series

- NC (normally closed) type, NO (normally open) type
- Port size: Rc1/4 to Rc2, 32 to 80 flange
- Working fluid: air, inert gas

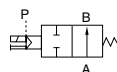


JIS symbol

- NC (normally closed) type



- NO (normally open) type



Common specifications

| Item | SVB1A | SVB2A |
|--|-----------------------------------|-------------------------|
| Actuation | NC (normally closed) type | NO (normally open) type |
| Working fluid | Air, inert gas (*1) | |
| Working pressure range MPa | 0 to 0.9 | 0 to 1 |
| Withstanding pressure (water) MPa | 2.0 | |
| Pilot air pressure MPa | 0.35 to 0.7 | Refer to page 442. |
| Fluid temperature °C | -10 to 60 (no freezing) | |
| Ambient temperature °C | -10 to 60 | |
| Valve seat leakage cm ³ /min. | 0.12 or less (pneumatic pressure) | |
| Mounting attitude | Free | |

*1: Refer to the working fluid check list in page 36 of the Introduction.

| Electric specifications | | |
|--|--|------|
| Rated voltage | 100 VAC (50/60 Hz), 110 VAC (60 Hz), 200 VAC (50/60 Hz), 220 VAC (60 Hz), 24 VDC | |
| Apparent power (VA) | Holding 3.6 (50 Hz), 2.8 (60 Hz) | |
| | Starting 11 (50 Hz), 9 (60 Hz) | |
| Power consumption (W) | AC 1.9 (50 Hz), 1.5 (60 Hz) | |
| | DC 2.0 | |
| Heat proof class | B | |
| Protective structure (IEC standards 529) | Grommet lead wire | IPX2 |
| | DIN terminal box (Pg9) | IPX5 |
| | T type terminal box (G1/2) | IPX5 |

Note 1: Allowable voltage range must be within ±10% of the rated voltage.

Individual specifications

| Item | Port size | Orifice (mm) | C [dm ³ /(s·bar)] | b | S (mm ²) | Allowable back pressure (MPa) | Pilot port size | Weight (kg) |
|----------------------------------|-----------|--------------|------------------------------|-----|----------------------|-------------------------------|-----------------|-------------|
| NC (normally closed) type | | | | | | | | |
| SVB1A-8A | Rc1/4 | 10 | 8.3 | 0.4 | - | 0.5 | Rc1/8 | 0.5 |
| SVB1A-10A | Rc3/8 | 10 | 11 | 0.4 | - | | | 0.5 |
| SVB1A-15A | Rc1/2 | 15 | - | - | 120 | | | 0.8 |
| SVB1A-20A | Rc3/4 | 16 | - | - | 150 | | | 1 |
| SVB1A-25A | Rc1 | 20 | - | - | 240 | 0.1 | Rc1/8 | 1.3 |
| SVB1A-32A | Rc1 1/4 | 26 | - | - | 390 | | | 2.4 |
| SVB1A-32F | 32 flange | 26 | - | - | 390 | | | 5.4 |
| SVB1A-40A | Rc1 1/2 | 32 | - | - | 610 | | | 3.4 |
| SVB1A-40F | 40 flange | 32 | - | - | 610 | | | 6.5 |
| SVB1A-50A | Rc2 | 42 | - | - | 920 | | | 5.4 |
| SVB1A-50F | 50 flange | 42 | - | - | 920 | | | 9.3 |
| SVB1A-65F (*2) | 65 flange | 65 | - | - | 1290 | | | 19.5 |
| SVB1A-80F (*2) | 80 flange | 79 | - | - | 1840 | 23.5 | | |
| NO (normally open) type | | | | | | | | |
| SVB2A-8A | Rc1/4 | 10 | 8.9 | 0.4 | - | 0.1 | Rc1/8 | 0.5 |
| SVB2A-10A | Rc3/8 | 10 | 12 | 0.3 | - | | | 0.5 |
| SVB2A-15A | Rc1/2 | 15 | - | - | 140 | | | 0.8 |
| SVB2A-20A | Rc3/4 | 16 | - | - | 180 | | | 1 |
| SVB2A-25A | Rc1 | 20 | - | - | 280 | 0.05 | Rc1/8 | 1.3 |
| SVB2A-32A | Rc1 1/4 | 26 | - | - | 450 | | | 2.4 |
| SVB2A-32F | 32 flange | 26 | - | - | 450 | | | 5.4 |
| SVB2A-40A | Rc1 1/2 | 32 | - | - | 680 | | | 3.4 |
| SVB2A-40F | 40 flange | 32 | - | - | 680 | | | 6.5 |
| SVB2A-50A | Rc2 | 42 | - | - | 1020 | | | 5.4 |
| SVB2A-50F | 50 flange | 42 | - | - | 1020 | | | 9.3 |
| SVB2A-65F (*2) | 65 flange | 65 | - | - | 1290 | | | 19 |
| SVB2A-80F (*2) | 80 flange | 79 | - | - | 1840 | 23 | | |

*1: Refer to page 442 for the pilot air pressure for the NO type.

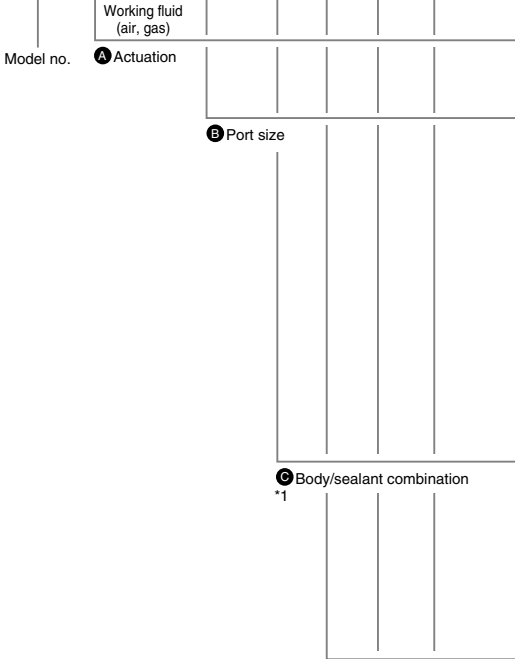
*2: Port size 65 and 80 flanges are custom order.

*3: Effective sectional area S and sonic conductance C are converted as $S = 5.0 \times C$.

How to order

● Solenoid valve mounted type

SVB **1** **A** - **15A** - **B** **2G** **S** - - **AC100V**



| Symbol | Descriptions |
|--------------------|---------------------------|
| A Actuation | |
| 1 | NC (normally closed) type |
| 2 | NO (normally open) type |
| B Port size | |
| 8A | Rc1/4 |
| 10A | Rc3/8 |
| 15A | Rc1/2 |
| 20A | Rc3/4 |
| 25A | Rc1 |
| 32A | Rc1 1/4 |
| 32F | 32 flange |
| 40A | Rc1 1/2 |
| 40F | 40 flange |
| 50A | Rc2 |
| 50F | 50 flange |
| 65F | 65 flange (custom order) |
| 80F | 80 flange (custom order) |

| C Body/sealant combination | | | |
|-----------------------------------|--------|-----------------|---------------------------------|
| | | Body | Sealant |
| 0 | Std. | Bronze | Nitrile rubber |
| B | Option | Bronze | Fluoro rubber |
| P | | Bronze | Ethylene propylene diene rubber |
| D | | Stainless steel | Nitrile rubber |
| E | | Stainless steel | Fluoro rubber |
| R | | Stainless steel | Ethylene propylene diene rubber |

| D Coil | | |
|---------------|--------|------------------------------------|
| | Std. | |
| 2C | | Grommet lead wire |
| 2G | Option | DIN terminal box (Pg9) |
| 2H | | DIN terminal box + light (Pg9) |
| 3T | | T type terminal box (G1/2) |
| 3R | | T type terminal box + light (G1/2) |

| E Other options | |
|------------------------|------------------|
| Symbol | Descriptions |
| Blank | No options |
| S | Surge suppressor |
| B | Mounting plate |

| F Assembly direction | |
|-----------------------------|---|
| Symbol | Descriptions |
| Blank | No options |
| X | Cylinder cover 90° rotation |
| Y | Cylinder cover 180° rotation |
| Z | Cylinder cover 270° rotation |
| R | Coil 180° reverse rotation (solenoid valve mounted type) Mounting plate/coil 180° reverse rotation (solenoid valve mounted type) |

| G Voltage | |
|------------------|-----------------------------------|
| Symbol | Descriptions |
| AC100V | 100 VAC 50/60 Hz 110 VAC 60 Hz |
| AC200V | 200 VAC 50/60 Hz 220 VAC 60 Hz |
| DC24V | 24 VDC |

Note on model no. selection

- *1: The body/sealant combination symbol is O or B for port size 65F and 80F. Note that the body is made of cast iron.
- *2: The mounting plate (E B) is available for port size 8A to 32A.
- *3: Indicate SB in (E) to select both surge suppressor and mounting plate.
- *4: The surge suppressor is an accessory for the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.
- *5: A manual override (non-locking) is provided as standard.
- *6: An optional assembly direction is available for 8A to 50F.

<Example of model number>

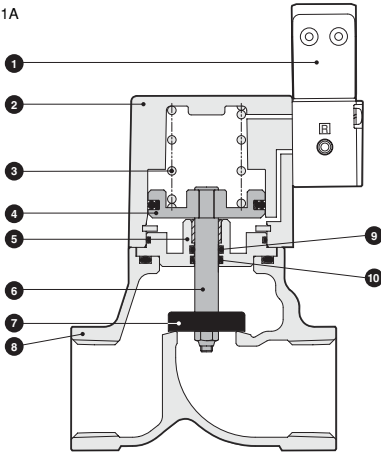
SVB1A-15A-B2GS-AC100V

- Model no.: SVB
- A** Actuation: NC (normally closed) type
- B** Port size: Rc1/2
- C** Body/sealant combination
: Body - bronze, sealant - fluoro rubber
- D** Coil: DIN terminal box (Pg9)
- E** Other options: Surge suppressor
- F** Assembly direction: No options
- G** Voltage: 100 VAC 50/60 Hz, 110 VAC 60 Hz

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
SAB/
SVB
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order
Cylinder valve, with solenoid valve
Air-operated 2 port valve

Internal structure and parts list

● SVB1A



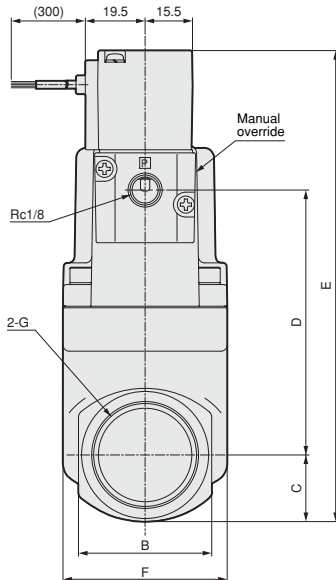
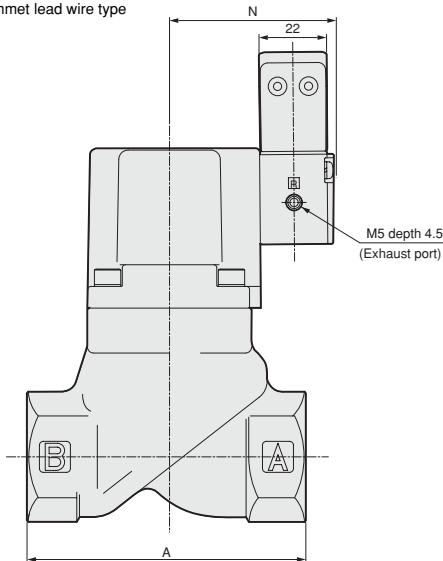
| No. | Parts name | Material | |
|-----|----------------------|---------------------------|--|
| 1 | Pilot solenoid valve | - | - |
| 2 | Cylinder cover | ADC12 | Aluminum die casting |
| 3 | Spring | SWP | Piano wire |
| 4 | Piston | A2017 | Aluminum |
| 5 | Adaptor | C3604 (SUS304) | Brass (stainless steel) |
| 6 | Piston rod | SUS304 | Stainless steel |
| 7 | Main valving element | NBR (FKM, EPDM) SUS304 | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) Stainless steel |
| 8 | Body | CAC407 (SCS13) | Bronze casting (stainless steel casting) |
| 9 | O ring | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |
| 10 | MY packing seal | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |

*1: () shows options.

*2: For 65F and 80F, the body is made of FC250 (cast iron), and the main valving element is made of FKM.

Dimensions  (Page 496)

● SVB*A-8A to 50A-*2C (Rc screw-in type)
Grommet lead wire type

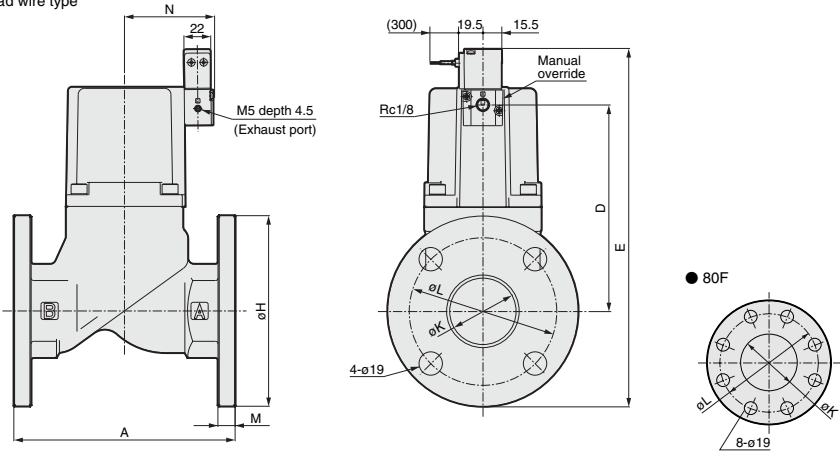


* Shown without optional assembly direction.

| Model no. | A | B | C | D | E | F | G | N |
|-----------|-----|----|------|-------|-------|----|---------|------|
| SVB*A-8A | 50 | 24 | 12 | 45.5 | 102.5 | 32 | Rc1/4 | 48.5 |
| SVB*A-10A | | | | | | | Rc3/8 | |
| SVB*A-15A | 71 | 28 | 14.5 | 65.5 | 125 | 43 | Rc1/2 | 49.5 |
| SVB*A-20A | 80 | 35 | 17.5 | 75 | 137.5 | 43 | Rc3/4 | 49.5 |
| SVB*A-25A | 90 | 43 | 21 | 85.5 | 151.5 | 53 | Rc1 | 53 |
| SVB*A-32A | 125 | 55 | 27.5 | 113.5 | 186 | 63 | Rc1 1/4 | 57.5 |
| SVB*A-40A | 140 | 61 | 30.5 | 134.5 | 210 | 77 | Rc1 1/2 | 64.5 |
| SVB*A-50A | 160 | 76 | 38 | 168 | 251 | 95 | Rc2 | 72.5 |

Dimensions  (Page 496)

- SVB*A-32F to 80F-2C (flange type)
Grommet lead wire type



* Shown without optional assembly direction.

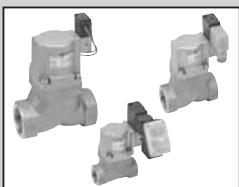
| Model no. | A | D | E | H | K | L | M | N |
|-----------|-----|-------|-------|-----|----|-----|----|------|
| SVB*A-32F | 170 | 113.5 | 226 | 135 | 36 | 100 | 12 | 57.5 |
| SVB*A-40F | 180 | 134.5 | 249.5 | 140 | 42 | 105 | 12 | 64.5 |
| SVB*A-50F | 180 | 168 | 291 | 155 | 54 | 120 | 14 | 72.5 |
| SVB*A-65F | 210 | 203 | 347.5 | 175 | 68 | 140 | 16 | 113 |
| SVB*A-80F | 240 | 218 | 367.5 | 185 | 82 | 150 | 16 | 123 |

Optional dimensions  (Page 496)

DIN terminal box, T type terminal box and mounting plate are the same as those for SVB*W Series. Refer to pages 468 to 469.

- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- For dry air
- Explosion proof
- HVB/HVL
- SAB/SVB
- NP/NAP/NVP
- CHB/G
- MXB/G
- Other G.P. systems
- PD/FAD/PJ
- CVB/CVSE
- CPE/CPD
- Medical analysis
- Custom order

Cylinder valve, with solenoid valve
Air-operated 2 port valve



Air operated 2 port valve with solenoid valve
(cylinder valve)

SVB*V Series

- NC (normally closed) type, NO (normally open) type
- Port size: Rc1/4 to Rc2, 32 to 50 flange
- Working fluid: low vacuum

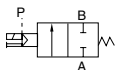


Refer to page 17 in the
Ending for details.

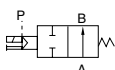


JIS symbol

- NC (normally closed) type



- NO (normally open) type



Common specifications

| Item | SVB1V | SVB2V |
|--|--|-------------------------|
| Actuation | NC (normally closed) type | NO (normally open) type |
| Working fluid | Low vacuum (air, water) (*1) | |
| Fluid viscosity mm ² /s | 500 or less | |
| Working pressure range Pa (abs) | 1.3 x 10 ² to 7 x 10 ⁵ (refer to working pressure range in individual specifications.) | |
| Withstanding pressure (water) MPa | 2.0 | |
| Fluid temperature °C | -10 to 60 (no freezing) | |
| Ambient temperature °C | -10 to 60 | |
| Valve seat leakage Pa·m ³ /s He | 1.33 x 10 ⁻³ or less | |
| Mounting attitude | Free | |

*1: Refer to the working fluid check list in page 36 of the Introduction.

| Electric specifications | | |
|--|--|--------------------------|
| Rated voltage | 100 VAC (50/60 Hz), 110 VAC (60 Hz), 200 VAC (50/60 Hz), 220 VAC (60 Hz), 24 VDC | |
| Apparent power (VA) | Holding | 3.6 (50 Hz), 2.8 (60 Hz) |
| | Starting | 11 (50 Hz), 9 (60 Hz) |
| Power consumption (W) | AC | 1.9 (50 Hz), 1.5 (60 Hz) |
| | DC | 2.0 |
| Heat proof class | B | |
| Protective structure (IEC standards 529) | Grommet lead wire | IPX2 |
| | DIN terminal box (Pg9) | IPX5 |
| | T type terminal box (G1/2) | IPX5 |

Note 1: Allowable voltage range must be within ±10% of the rated voltage.

Individual specifications

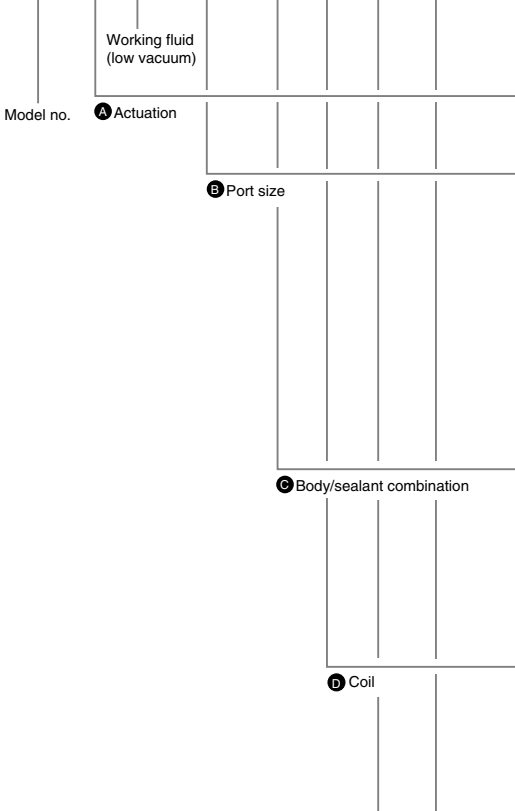
| Item Model no. | Port size | Orifice (mm) | C [dm ³ /(s·bar)] | b | S (mm ²) | Working pressure range Pa (abs) | | Pilot air pressure (MPa) | | Pilot port size | Weight (kg) | |
|----------------|-----------|--------------|------------------------------|-----|----------------------|--|--|--------------------------|---------|-----------------|-------------|---------|
| | | | | | | NC type | NO type | NC type | NO type | | NC type | NO type |
| SVB*V-8A | Rc1/4 | 10 | 8.3 | 0.4 | - | 1.3 x 10 ² to 7 x 10 ⁵ | 1.3 x 10 ² to 1 x 10 ⁶ | 0.35 to 0.7 | (*1) | Rc1/8 | 0.5 | |
| SVB*V-10A | Rc3/8 | 10 | 12 | 0.3 | 0.5 | | | | | | | |
| SVB*V-15A | Rc1/2 | 15 | - | - | 140 | | | | | | 0.8 | |
| SVB*V-20A | Rc3/4 | 16 | - | - | 180 | | | | | | 1 | |
| SVB*V-25A | Rc1 | 20 | - | - | 280 | | | | | | 1.3 | |
| SVB*V-32A | Rc1 1/4 | 26 | - | - | 450 | 1.3 x 10 ² to 5 x 10 ⁵ | 1.3 x 10 ² to 1 x 10 ⁶ | 0.25 to 0.7 | (*1) | Rc1/8 | 2.5 | 2.4 |
| SVB*V-32F | 32 flange | 26 | - | - | 450 | | | | | | 5.5 | 5.4 |
| SVB*V-40A | Rc1 1/2 | 32 | - | - | 680 | | | | | | 3.6 | 3.4 |
| SVB*V-40F | 40 flange | 32 | - | - | 680 | | | | | | 6.7 | 6.5 |
| SVB*V-50A | Rc2 | 42 | - | - | 1020 | | | | | | 5.7 | 5.4 |
| SVB*V-50F | 50 flange | 42 | - | - | 1020 | | | | | | 9.6 | 9.3 |

*1: Refer to page 442 for the pilot air pressure for the NO type.

How to order

● Solenoid valve mounted type

SVB **1** **V** - **15A** - **B** **2G** **S** - - **AC100V**



| Symbol | Descriptions |
|--------------------|---------------------------|
| A Actuation | |
| 1 | NC (normally closed) type |
| 2 | NO (normally open) type |

| B Port size | |
|--------------------|-----------|
| 8A | Rc1/4 |
| 10A | Rc3/8 |
| 15A | Rc1/2 |
| 20A | Rc3/4 |
| 25A | Rc1 |
| 32A | Rc1 1/4 |
| 32F | 32 flange |
| 40A | Rc1 1/2 |
| 40F | 40 flange |
| 50A | Rc2 |
| 50F | 50 flange |

| C Body/sealant combination | | | |
|-----------------------------------|--------|-----------------|---------------------------------|
| | | Body | Sealant |
| 0 | Std. | Bronze | Nitrile rubber |
| B | Option | Bronze | Fluoro rubber |
| P | | Bronze | Ethylene propylene diene rubber |
| D | | Stainless steel | Nitrile rubber |
| E | | Stainless steel | Fluoro rubber |
| R | | Stainless steel | Ethylene propylene diene rubber |

| D Coil | | |
|---------------|--------|------------------------------------|
| 2C | Std. | Grommet lead wire |
| 2G | Option | DIN terminal box (Pg9) |
| 2H | | DIN terminal box + light (Pg9) |
| 3T | | T type terminal box (G1/2) |
| 3R | | T type terminal box + light (G1/2) |

| E Other options | |
|------------------------|------------------|
| Blank | No options |
| S | Surge suppressor |
| B | Mounting plate |

| F Assembly direction | |
|-----------------------------|---|
| Blank | No options |
| X | Cylinder cover 90° rotation |
| Y | Cylinder cover 180° rotation |
| Z | Cylinder cover 270° rotation |
| R | Coil 180° reverse rotation (solenoid valve mounted type) |
| | Mounting plate/coil 180° reverse rotation (solenoid valve mounted type) |

Refer to page 465 for the layout drawing.

| G Voltage | |
|------------------|------------------|
| AC100V | 100 VAC 50/60 Hz |
| | 110 VAC 60 Hz |
| AC200V | 200 VAC 50/60 Hz |
| | 220 VAC 60 Hz |
| DC24V | 24 VDC |

Note on model no. selection

- *1: The mounting plate (E B) is available for port size 8A to 32A.
- *2: Indicate SB in C to select both surge suppressor and mounting plate.
- *3: The surge suppressor is an accessory for the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.
- *4: A manual override (non-locking) is provided as standard.

<Example of model number>

SVB1V-15A-B2GS-AC100V

Model no.: SVB

A Actuation: NC (normally closed) type

B Port size: Rc1/2

C Body/sealant combination
: Body - bronze, sealant - fluoro rubber

D Coil: DIN terminal box (Pg9)

E Other options: Surge suppressor

F Assembly direction: No options

G Voltage: 100 VAC 50/60 Hz, 110 VAC 60 Hz

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/AD

APK/ADK

For dry air

Explosion proof

HVB/HVL

SAB/SVB

NP/NAP/NVP

CHB/G

MXB/G

Other G.P. systems

PD/FAD/PJ

CVB/CVSE

CPE/CPD

Medical analysis

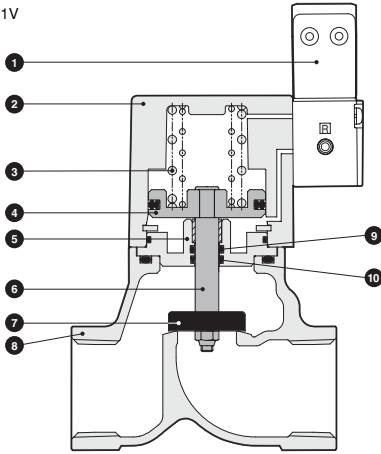
Custom order

Cylinder valve with solenoid valve

Air-operated 2 port valve

Internal structure and parts list

● SVB1V

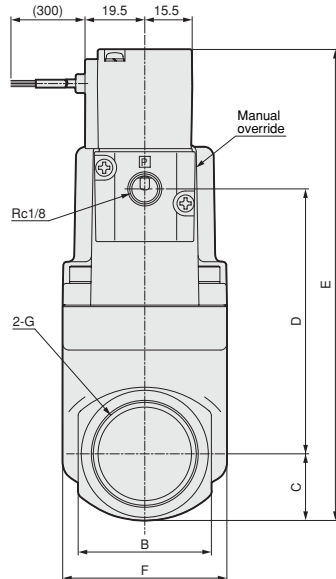
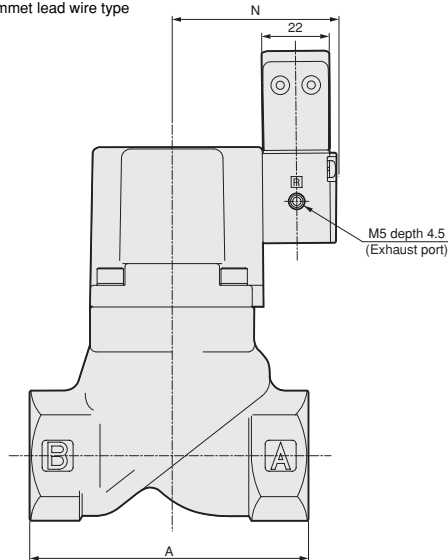


| No. | Parts name | Material | |
|-----|----------------------|---------------------------|--|
| 1 | Pilot solenoid valve | - | - |
| 2 | Cylinder cover | ADC12 | Aluminum die casting |
| 3 | Spring | SWP | Piano wire |
| 4 | Piston | A2017 | Aluminum |
| 5 | Adaptor | C3604 (SUS304) | Brass (stainless steel) |
| 6 | Piston rod | SUS304 | Stainless steel |
| 7 | Main valving element | NBR (FKM, EPDM) SUS304 | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) Stainless steel |
| 8 | Body | CAC407 (SCS13) | Bronze casting (stainless steel casting) |
| 9 | O ring | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |
| 10 | MY packing seal | NBR (FKM, EPDM) | Nitrile rubber (fluoro rubber, ethylene propylene diene rubber) |

() shows options.

Dimensions (Page 496)

● SVB*V-8A to 50A-*2C (Rc screw-in type)
Grommet lead wire type

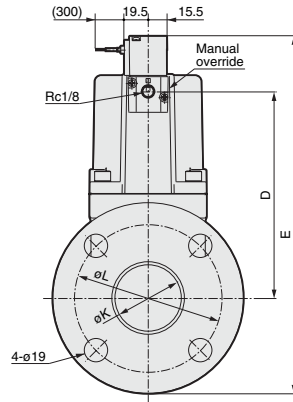
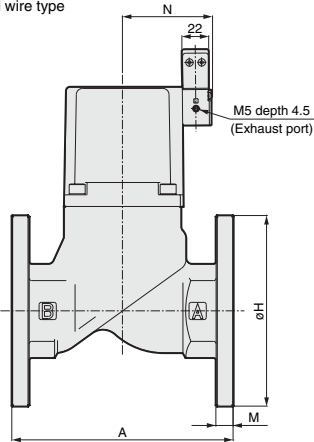


* Shown without optional assembly direction.

| Model no. | A | B | C | D | E | F | G | N |
|-----------|-----|----|------|-------|-------|----|---------|------|
| SVB*V-8A | 50 | 24 | 12 | 45.5 | 102.5 | 32 | Rc1/4 | 48.5 |
| SVB*V-10A | | | | | | | Rc3/8 | |
| SVB*V-15A | 71 | 28 | 14.5 | 65.5 | 125 | 43 | Rc1/2 | 49.5 |
| SVB*V-20A | 80 | 35 | 17.5 | 75 | 137.5 | 43 | Rc3/4 | 49.5 |
| SVB*V-25A | 90 | 43 | 21 | 85.5 | 151.5 | 53 | Rc1 | 53 |
| SVB*V-32A | 125 | 55 | 27.5 | 113.5 | 186 | 63 | Rc1 1/4 | 57.5 |
| SVB*V-40A | 140 | 61 | 30.5 | 134.5 | 210 | 77 | Rc1 1/2 | 64.5 |
| SVB*V-50A | 160 | 76 | 38 | 168 | 251 | 95 | Rc2 | 72.5 |

Dimensions  (Page 496)

- SVB*V-32F to 50F-*2C (flange type)
Grommet lead wire type



* Shown without optional assembly direction.

| Model no. | A | D | E | H | K | L | M | N |
|-----------|-----|-------|-------|-----|----|-----|----|------|
| SVB*V-32F | 170 | 113.5 | 226 | 135 | 36 | 100 | 12 | 57.5 |
| SVB*V-40F | 180 | 134.5 | 249.5 | 140 | 42 | 105 | 12 | 64.5 |
| SVB*V-50F | 180 | 168 | 291 | 155 | 54 | 120 | 14 | 72.5 |

Optional dimensions  (Page 496)

DIN terminal box, T type terminal box and mounting plate are the same as those for SVB*W Series. Refer to pages 468 to 469.

- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/AD
- APK/ADK
- For dry air
- Explosion proof
- HVB/HVL
- SAB/SVB
- NP/NAP/NVP
- CHB/G
- MXB/G
- Other G.P. systems
- PD/FAD/PJ
- CVB/CVSE
- CPE/CPD
- Medical analysis
- Custom order

Cylinder valve with solenoid valve
Air operated 2 port valve



Air operated 2 port valve with solenoid valve
(cylinder valve)

SVB*S Series

- NC (normally closed) type, NO (normally open) type
- Port size: Rc1/4 to Rc2, 32 to 50 flange
- Working fluid: steam, water, air

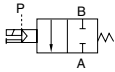


Refer to page 17 in the
Ending for details.

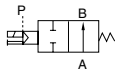


JIS symbol

- NC (normally closed) type



- NO (normally open) type



Common specifications

| Item | SVB1S | SVB2S |
|--|---|-------------------------|
| Actuation | NC (normally closed) type | NO (normally open) type |
| Working fluid | Steam, water, air, non-corrosive fluids (*1) | |
| Liquid viscosity mm ² /s | 500 or less | |
| Working pressure range MPa | 0 to 1 | |
| Withstanding pressure (water) MPa | 2.0 | |
| Pilot air pressure MPa | 0.35 to 0.7 | Refer to page 442. |
| Fluid temperature °C | -10 to 184 (no freezing) | |
| Ambient temperature °C | -10 to 60 | |
| Valve seat leakage cm ³ /min. | 300 or less (at pneumatic pressure 0.02 to 1 MPa) | |
| Mounting attitude | Free | |

*1: Refer to the working fluid check list in page 36 of the Introduction.

| Electric specifications | | |
|--|----------------------------|--|
| Rated voltage | | 100 VAC (50/60 Hz), 110 VAC (60 Hz), 200 VAC (50/60 Hz), 220 VAC (60 Hz), 24 VDC |
| Apparent power (VA) | Holding | 3.6 (50 Hz), 2.8 (60 Hz) |
| | Starting | 11 (50 Hz), 9 (60 Hz) |
| Power consumption (W) | AC | 1.9 (50 Hz), 1.5 (60 Hz) |
| | DC | 2.0 |
| Heat proof class | | B |
| Protective structure (IEC standards 529) | Grommet lead wire | |
| | DIN terminal box (Pg9) | |
| | T type terminal box (G1/2) | |
| | | IPX2 |
| | | IPX5 |
| | | IPX5 |

Note 1: Allowable voltage range must be within ±10% of the rated voltage.

Individual specifications

| Item | Port size | Orifice (mm) | C [dm ³ /(s·bar)] | b | S (mm ²) | Cv flow factor | Pilot port size | Weight (kg) |
|---------------------------------|-----------|--------------|------------------------------|-----|----------------------|----------------|-----------------|-------------|
| NC type: normally closed | | | | | | | | |
| SVB1S-8A | Rc1/4 | 10 | 8.3 | 0.4 | - | 2.1 | Rc1/8 | 0.5 |
| SVB1S-10A | Rc3/8 | 10 | 11 | 0.4 | - | 2.5 | | 0.5 |
| SVB1S-15A | Rc1/2 | 15 | - | - | 120 | 5.5 | | 0.8 |
| SVB1S-20A | Rc3/4 | 16 | - | - | 150 | 7 | | 1 |
| SVB1S-25A | Rc1 | 20 | - | - | 240 | 11 | | 1.4 |
| SVB1S-32A | Rc1 1/4 | 26 | - | - | 390 | 18.5 | | 2.6 |
| SVB1S-32F | 32 flange | 26 | - | - | 390 | 18.5 | | 5.6 |
| SVB1S-40A | Rc1 1/2 | 32 | - | - | 610 | 29 | | 3.7 |
| SVB1S-40F | 40 flange | 32 | - | - | 610 | 29 | | 6.8 |
| SVB1S-50A | Rc2 | 42 | - | - | 920 | 43 | | 5.6 |
| SVB1S-50F | 50 flange | 42 | - | - | 920 | 43 | | 9.5 |
| NO type: normally open | | | | | | | | |
| SVB2S-8A | Rc1/4 | 10 | 8.9 | 0.4 | - | 2.3 | Rc1/8 | 0.5 |
| SVB2S-10A | Rc3/8 | 10 | 12 | 0.3 | - | 2.6 | | 0.5 |
| SVB2S-15A | Rc1/2 | 15 | - | - | 140 | 5.6 | | 0.8 |
| SVB2S-20A | Rc3/4 | 16 | - | - | 180 | 8 | | 1 |
| SVB2S-25A | Rc1 | 20 | - | - | 280 | 12 | | 1.4 |
| SVB2S-32A | Rc1 1/4 | 26 | - | - | 450 | 20 | | 2.6 |
| SVB2S-32F | 32 flange | 26 | - | - | 450 | 20 | | 5.6 |
| SVB2S-40A | Rc1 1/2 | 32 | - | - | 680 | 32 | | 3.7 |
| SVB2S-40F | 40 flange | 32 | - | - | 680 | 32 | | 6.8 |
| SVB2S-50A | Rc2 | 42 | - | - | 1020 | 50 | | 5.6 |
| SVB2S-50F | 50 flange | 42 | - | - | 1020 | 50 | | 9.5 |

*1: Refer to page 442 for the pilot air pressure for the NO type.

How to order

● Solenoid valve mounted type

SVB **1** **S** - **15A** - **E** **2G** **L** - - **AC100V**

Working fluid
(steam, water, air)

Model no.

A Actuation

B Port size

C Body/sealant combination

*1

D Coil

E Other options

F Assembly direction

G Voltage

| Symbol | Descriptions |
|--------------------|---------------------------|
| A Actuation | |
| 1 | NC (normally closed) type |
| 2 | NO (normally open) type |
| B Port size | |
| 8A | Rc1/4 |
| 10A | Rc3/8 |
| 15A | Rc1/2 |
| 20A | Rc3/4 |
| 25A | Rc1 |
| 32A | Rc1 1/4 |
| 32F | 32 flange |
| 40A | Rc1 1/2 |
| 40F | 40 flange |
| 50A | Rc2 |
| 50F | 50 flange |

| C Body/sealant combination | | | | |
|----------------------------|-----------------|---------------------------|---------------------------|------------|
| | Body | Sealant | O ring | Remarks |
| C | Bronze | Tetrafluoroethylene resin | Fluoro rubber | Steam, |
| E | Stainless steel | Tetrafluoroethylene resin | Fluoro rubber | air, water |
| F | Stainless steel | Tetrafluoroethylene resin | Tetrafluoroethylene resin | Solvents |

| D Coil | | |
|-----------|--------|------------------------------------|
| | Std. | Grommet lead wire |
| 2C | | |
| 2G | Option | DIN terminal box (Pg9) |
| 2H | | DIN terminal box + light (Pg9) |
| 3T | | T type terminal box (G1/2) |
| 3R | | T type terminal box + light (G1/2) |

| E Other options | |
|-----------------|------------------|
| Blank | No options |
| S | Surge suppressor |
| B | Mounting plate |
| L | Indicator |

| F Assembly direction | |
|----------------------|---|
| Blank | No options |
| X | Cylinder cover 90° rotation |
| Y | Cylinder cover 180° rotation |
| Z | Cylinder cover 270° rotation |
| R | Coil 180° reverse rotation (solenoid valve mounted type) |
| | Mounting plate/coil 180° reverse rotation (solenoid valve mounted type) |

| G Voltage | |
|---------------|------------------|
| AC100V | 100 VAC 50/60 Hz |
| | 110 VAC 60 H |
| AC200V | 200 VAC 50/60 Hz |
| | 220 VAC 60 Hz |
| DC24V | 24 VDCz |

Refer to page 465 for the layout drawing.

⚠ Note on model no. selection

- *1: Select C or E for steam.
- *2: The mounting plate (E) is available for port size 8A to 32A.
- *3: The indicator (L) is available only for Actuation 1: NC type.
- *4: When selecting multiple options for E, indicate as follows:
Surge suppressor + mounting plate → SB
Surge suppressor + indicator → SL
Mounting plate + indicator → BL
Surge suppressor + mounting plate + indicator → SBL
- *5: The surge suppressor is an accessory for the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.
- *6: A manual override (non-locking) is provided as standard.

<Example of model number>

SVB1S-15A-E2GL-AC100V

Model no.: SVB

A Actuation: NC (normally closed) type

B Port size: Rc1/2

C Body/sealant combination
: Body - stainless steel, sealant - tetrafluoroethylene resin

D Coil: DIN terminal box (Pg9)

E Other options: Indicator

F Assembly direction: No options

G Voltage: 100 VAC 50/60 Hz, 110 VAC 60 Hz

HNB/G

USB/G

FAB/G

FGB/G

FVB

FWB/G

FHB

FLB

AB

AG

AP/
AD

APK/
ADK

For
dry air

Explosion
proof

HVB/
HVL

SAB/
SVB

NP/NAP/
NVP

CHB/G

MXB/G

Other G.P.
systems

PD/FAD/
PJ

CVE/
CVSE

CPE/
CPD

Medical
analysis

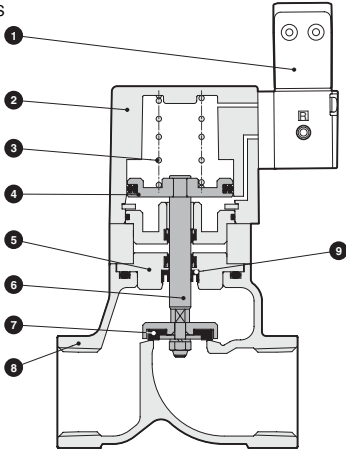
Custom
order

Cylinder valve
with solenoid valve

Air operated Z port valve

Internal structure and parts list

● SVB1S

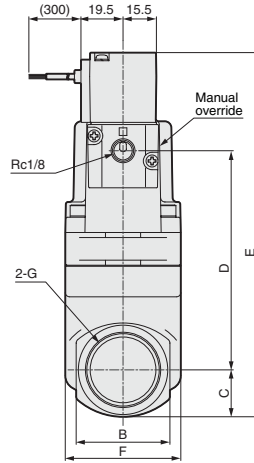
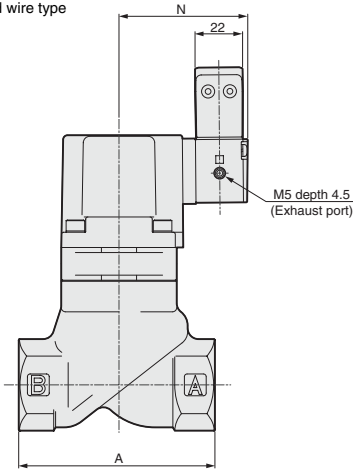


| No. | Parts name | Material | |
|-----|----------------------|----------------|--|
| 1 | Pilot solenoid valve | - | - |
| 2 | Cylinder cover | ADC12 | Aluminum die casting |
| 3 | Spring | SWP | Piano wire |
| 4 | Piston | A2017 | Aluminum |
| 5 | Adaptor | C3604 (SUS304) | Brass (stainless steel) |
| 6 | Piston rod | SUS304 | Stainless steel |
| 7 | Main valving element | PTFE | Tetrafluoroethylene resin |
| 8 | Body | CAC407 (SUS13) | Bronze casting (stainless steel casting) |
| 9 | Rod packing seal | PTFE | Tetrafluoroethylene resin |

() shows options.

Dimensions (Page 496)

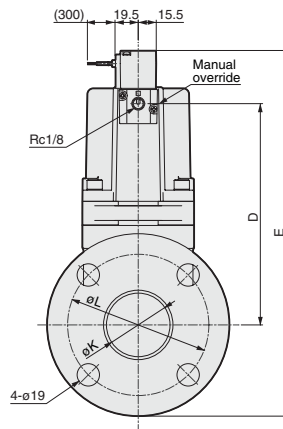
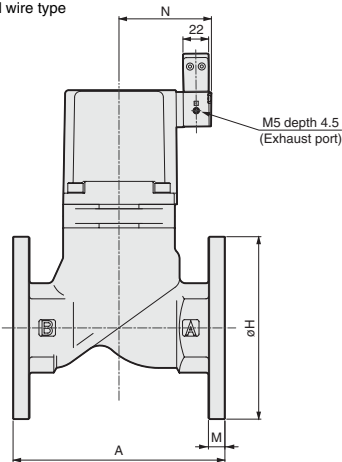
- SVB*S-8A to 50A-*2C (Rc screw-in type)
Grommet lead wire type



* Shown without optional assembly direction.

| Model no. | A | B | C | D | E | F | G | N |
|-----------|-----|----|------|-------|-------|----|---------|------|
| SVB*S-8A | 50 | 24 | 12 | 56.5 | 113.5 | 32 | Rc1/4 | 54.5 |
| SVB*S-10A | | | | | | | Rc3/8 | |
| SVB*S-15A | 71 | 28 | 14.5 | 81.5 | 141 | 43 | Rc1/2 | 55.5 |
| SVB*S-20A | 80 | 35 | 17.5 | 91 | 153.5 | 43 | Rc3/4 | 55.5 |
| SVB*S-25A | 90 | 43 | 21 | 102 | 168 | 53 | Rc1 | 59 |
| SVB*S-32A | 125 | 55 | 27.5 | 128.5 | 201 | 63 | Rc1 1/4 | 63.5 |
| SVB*S-40A | 140 | 61 | 30.5 | 154.5 | 230 | 77 | Rc1 1/2 | 70.5 |
| SVB*S-50A | 160 | 76 | 38 | 188 | 271 | 95 | Rc2 | 78.5 |

- SVB*S-32F to 50F-*2C (flange type)
Grommet lead wire type



* Shown without optional assembly direction.

| Model no. | A | D | E | H | K | L | M | N |
|-----------|-----|-------|-------|-----|----|-----|----|------|
| SVB*S-32F | 170 | 128.5 | 241 | 135 | 36 | 100 | 12 | 63.5 |
| SVB*S-40F | 180 | 154.5 | 269.5 | 140 | 42 | 105 | 12 | 70.5 |
| SVB*S-50F | 180 | 188 | 311 | 155 | 54 | 120 | 14 | 78.5 |

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
SAB/
SVB
NP/NAP/
NVP
CHB/G

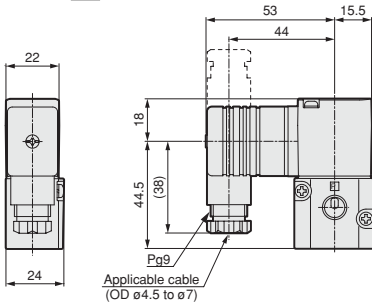
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve with solenoid valve
Air operated Z port valve

Optional dimensions (Page 496)

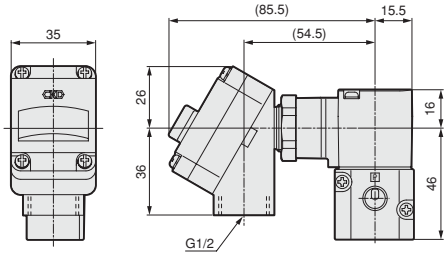
- DIN terminal box (Pg9), DIN terminal box + light (Pg9)

SVB*S-**-**2G**
2H



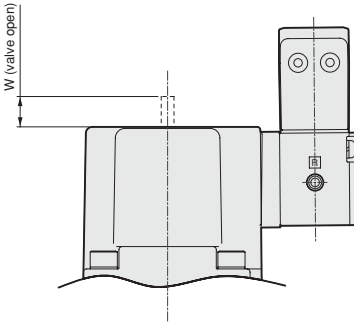
- T type terminal box (G1/2), T type terminal box + light (G1/2)

SVB*S-**-**3T**
3R



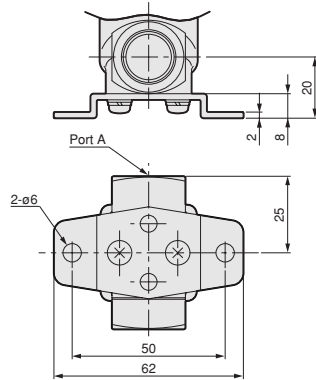
- Indicator

SVB1S-8A to 50^A-****L**






- Mounting plate

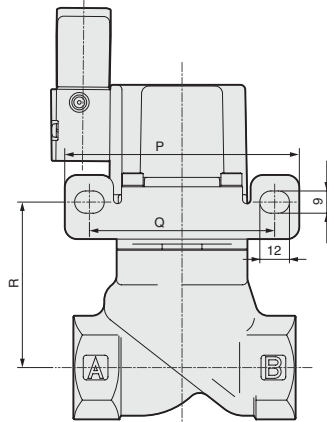
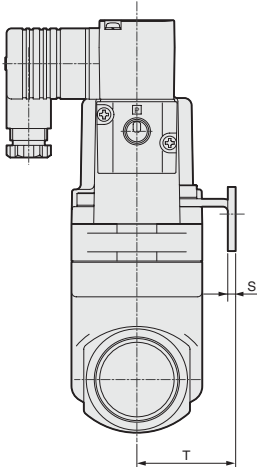
SVB*S-8A/10A-**-**B**






| Model no. | W |
|-------------|------|
| SVB1S-8A | 4 |
| SVB1S-10A | 4 |
| SVB1S-15A | 6.5 |
| SVB1S-20A | 6.5 |
| SVB1S-25A | 7 |
| SVB1S-32A/F | 8 |
| SVB1S-40A/F | 10.5 |
| SVB1S-50A/F | 13 |

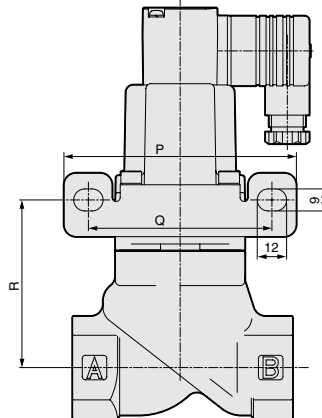
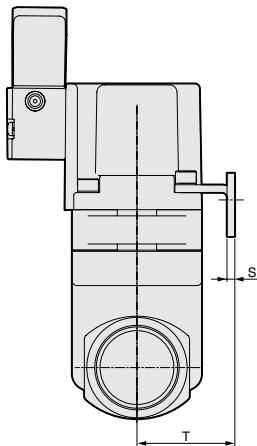
Optional dimensions (Page 496)


- Mounting plate
SVB*S-15A to 32A**  /  / 



* Figure shows .

- Mounting plate
SVB*S-15A to 32A**  / 



* Figure shows .

| Model no. | P | Q | R | S | T |
|-----------|-----|----|------|-----|----|
| SVB*S-15A | 90 | 70 | 55 | 2.3 | 30 |
| SVB*S-20A | 90 | 70 | 64.5 | 2.3 | 30 |
| SVB*S-25A | 95 | 75 | 68.5 | 3.2 | 40 |
| SVB*S-32A | 105 | 85 | 81.5 | 3.2 | 45 |

HNB/G
USB/G
FAB/G
FGB/G
FVB
FWB/G
FHB
FLB
AB
AG
AP/
AD
APK/
ADK
For
dry air
Explosion
proof
HVB/
HVL
**SAB/
SVB**
NP/NAP/
NVP
CHB/G
MXB/G
Other G.P.
systems
PD/FAD/
PJ
CVE/
CVSE
CPE/
CPD
Medical
analysis
Custom
order

Cylinder valve with solenoid valve
Air operated 2 port valve

SAB/SVB/NAB Series

Electronic Catalog file list

Air operated 2 port valve (cylinder valve)

Air operated type SAB (pages 448 to 463)

Electronic Catalog file list is applied to "CAD DATA 2006".

| Model no. | DXF | | MICRO CADAM |
|----------------------------|-------------|---------------|-------------------------------------|
| | Folder name | Filename | Filename (GROUP: CAD, USER: STDLIB) |
| SAB**-8(10)A-* | SAB | sab__8(10)a__ | CKD-SAB**-8(10)A-* |
| SAB**-15A-* | | sab__15a__ | CKD-SAB**-15A-* |
| SAB**-20A-* | | sab__20a__ | CKD-SAB**-20A-* |
| SAB**-25A-* | | sab__25a__ | CKD-SAB**-25A-* |
| SAB**-32A-* | | sab__32a__ | CKD-SAB**-32A-* |
| SAB**-32F-* | | sab__32f__ | CKD-SAB**-32F-* |
| SAB**-40A-* | | sab__40a__ | CKD-SAB**-40A-* |
| SAB**-40F-* | | sab__40f__ | CKD-SAB**-40F-* |
| SAB**-50A-* | | sab__50a__ | CKD-SAB**-50A-* |
| SAB**-50F-* | | sab__50f__ | CKD-SAB**-50F-* |
| SAB**-65F-0(B) | | sab__65f_0(b) | CKD-SAB**-65F-0(B) |
| SAB**-80F-0(B) | | sab__80f_0(b) | CKD-SAB**-80F-0(B) |
| Accessory (mounting plate) | | sab_f | CKD-SAB-F |

Solenoid valve mounted type SVB (pages 466 to 482)

| Model no. | DXF | | MICRO CADAM |
|--|-------------|---------------|-------------------------------------|
| | Folder name | Filename | Filename (GROUP: CAD, USER: STDLIB) |
| SVB**-8(10)A-* | SVB | svb__8(10)a__ | CKD-SVB**-8(10)A-* |
| SVB**-15A-* | | svb__15a__ | CKD-SVB**-15A-* |
| SVB**-20A-* | | svb__20a__ | CKD-SVB**-20A-* |
| SVB**-25A-* | | svb__25a__ | CKD-SVB**-25A-* |
| SVB**-32A-* | | svb__32a__ | CKD-SVB**-32A-* |
| SVB**-32F-* | | svb__32f__ | CKD-SVB**-32F-* |
| SVB**-40A-* | | svb__40a__ | CKD-SVB**-40A-* |
| SVB**-40F-* | | svb__40f__ | CKD-SVB**-40F-* |
| SVB**-50A-* | | svb__50a__ | CKD-SVB**-50A-* |
| SVB**-50F-* | | svb__50f__ | CKD-SVB**-50F-* |
| SVB**-65F-0(B) | | svb__65f_0(b) | CKD-SVB**-65F-0(B) |
| SVB**-80F-0(B) | | svb__80f_0(b) | CKD-SVB**-80F-0(B) |
| Accessory (DIN terminal box, DIN terminal box + light, T type terminal box, T type terminal box + light, mounting plate) | | svb_f | CKD-SVB-F |

Compact type (pages 485 to 495)

| Model no. | DXF | | MICRO CADAM |
|----------------|-------------|-----------------|-------------------------------------|
| | Folder name | Filename | Filename (GROUP: CAD, USER: STDLIB) |
| NAB*-8(10)-* | NAB | nab__8_10__ | CKD-NAB*-8(10)-* |
| GNAB*-*(B) | GNAB | gnab____b__ | CKD-GNAB*-*(B) |
| GNAB*-*(2) | | gnab__1_2__ | CKD-GNAB*-*(2) |
| GNAB*-*(D)(E) | | gnab__d_e__ | CKD-GNAB*-*(D)(E) |
| GNAB*-1-0(-B) | | gnab__1_0_b__ | CKD-GNAB*-1-0(-B) |
| GNAB*-1-0-D(E) | | gnab__1_0_d_e__ | CKD-GNAB*-1-0-D(E) |
| GNAB*-5-0(-B) | | gnab__5_0_b__ | CKD-GNAB*-5-0(-B) |
| GNAB*-5-0-D(E) | | gnab__5_0_d_e__ | CKD-GNAB*-5-0-D(E) |