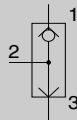


Shuttle valve

SHV2 Series

● Port size: Rc1/8 to Rc1

JIS symbol



Features

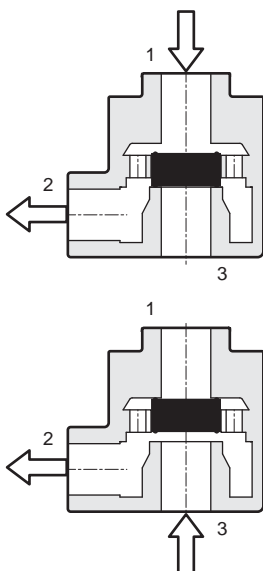
- **Variety of bore sizes available**
Series are available for piping bore sizes Rc1/8 to Rc1.
- **Wide range of options**
 - Fluorine rubber specifications available as options
 - Mounting bracket available (small bore)
- **Eco-friendly product**
 - Eco-friendly design is free of lead and hexavalent chrome.
 - Paint-free
 - Sorting is simplified.

Specifications

Model no.	SHV2-6	SHV2-8	SHV2-10	SHV2-15	SHV2-20	SHV2-25
Descriptions						
Working fluid	MPa Compressed air					
Max. working pressure	1.0					
Min. working pressure	0.05					
Min. operating differential pressure	0.05					
Withstanding pressure	1.5					
Fluid temperature range	5 to 60					
Ambient temperature range	0 to 60 (no freezing)					
Port size	Rc 1/8	Rc 1/4	Rc 3/8	Rc 1/2	Rc 3/4	Rc 1
Product weight	86	82	270	270	760	700
Mounting attitude	Free					
Effective sectional area	1 → 2	20	28	90	105	205
	3 → 2	22	32	95	115	210
Min. required flow *1	20	30	100		150	

*1: The valve may not change completely if the flow rate is less than this value.

Operational explanation

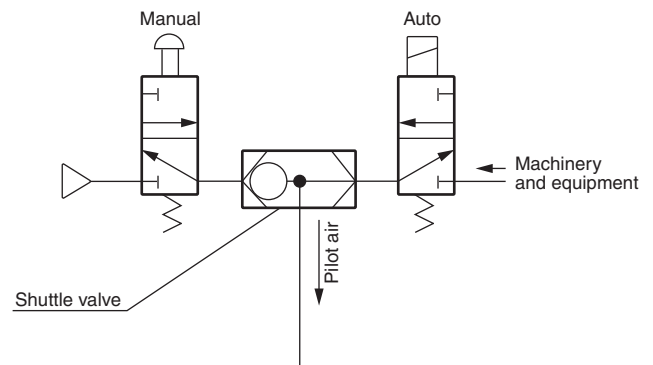


● 1 → 2
The valve closes port 3 with pressure from port 1. Air flows to port 2.

● 3 → 2
The valve closes port 1 with pressure from port 3. Air flows to port 2.

Applications

(1) Switching manual/auto



How to order

● Shuttle valve

SHV2 - 6 - A P

Model no.

A Port size

B Option

C Accessory

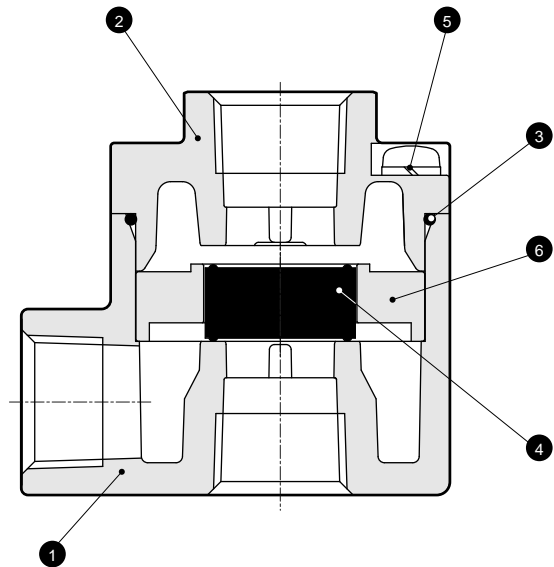
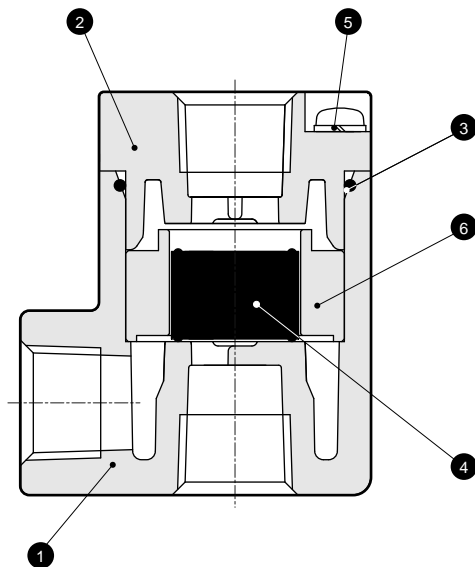
Symbol	Descriptions
A Port size	
6	Rc 1/8
8	Rc 1/4
10	Rc 3/8
15	Rc 1/2
20	Rc 3/4
25	Rc 1
B Option	
Blank	No option
A	Fluoro rubber specifications
C Accessory	
Blank	None
P	Mounting bracket attached

Note 1: The installation bracket is enclosed only with SHV2-6 and SHV2-8.

Internal structure and part list

● SHV2-6/8

● SHV2-10/15/20/25



No.	Parts name	Material
1	Body	Aluminum alloy die-casting
2	Plug	Aluminum alloy die-casting
3	O ring	Nitrile rubber (fluoro rubber)
4	Valve	Nitrile rubber (fluoro rubber)
5	Cross headed pan head machine screw with SW	Stainless steel
6	Guide ring	Aluminum alloy

* The material in () is for option "A" (fluoro rubber specification) .

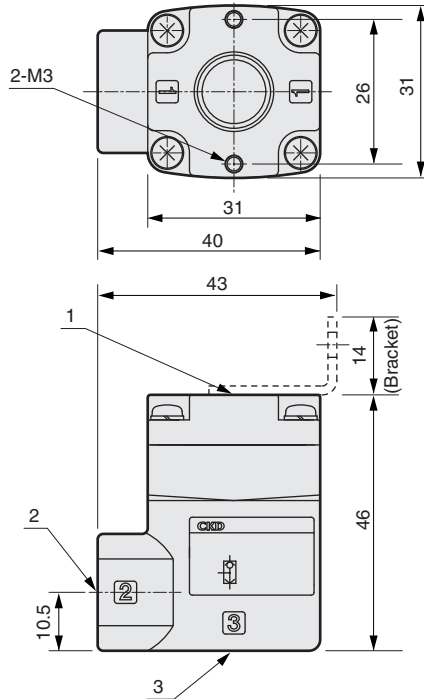
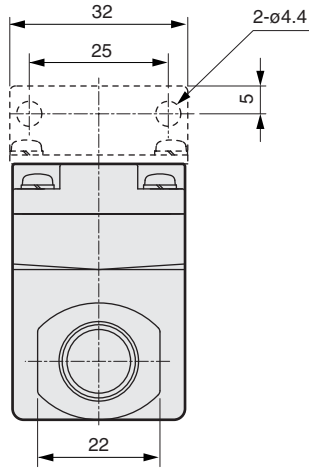
Refrigerating type dryer
Desiccant type dryer
High polymer membrane type dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending

Shuttle valve
Auxiliary valve

Dimensions



● SHV2-6/8

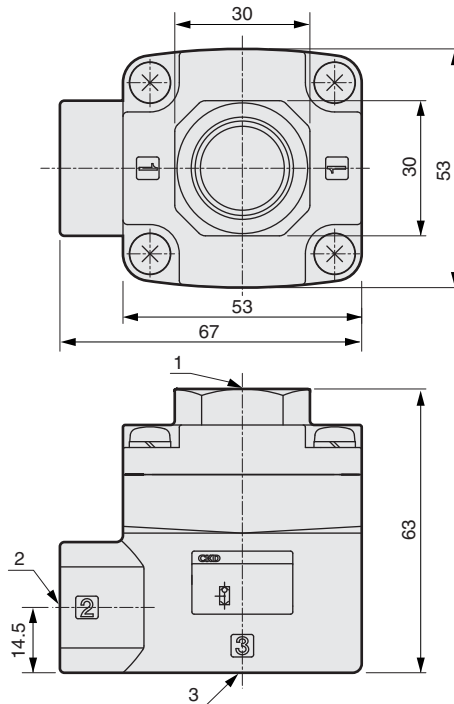
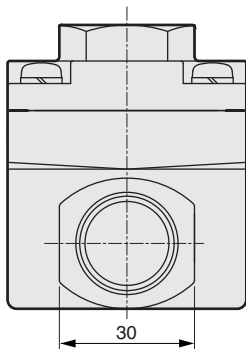


Model no.	Port position		
	1	2	3
SHV2-6		Rc 1/8	
SHV2-8		Rc 1/4	

(Piping port indication)

Port symbol	Descriptions
1	A (input)
2	OUT (output)
3	B (input)

● SHV2-10/15



Model no.	Port position		
	1	2	3
SHV2-10		Rc 3/8	
SHV2-15		Rc 1/2	

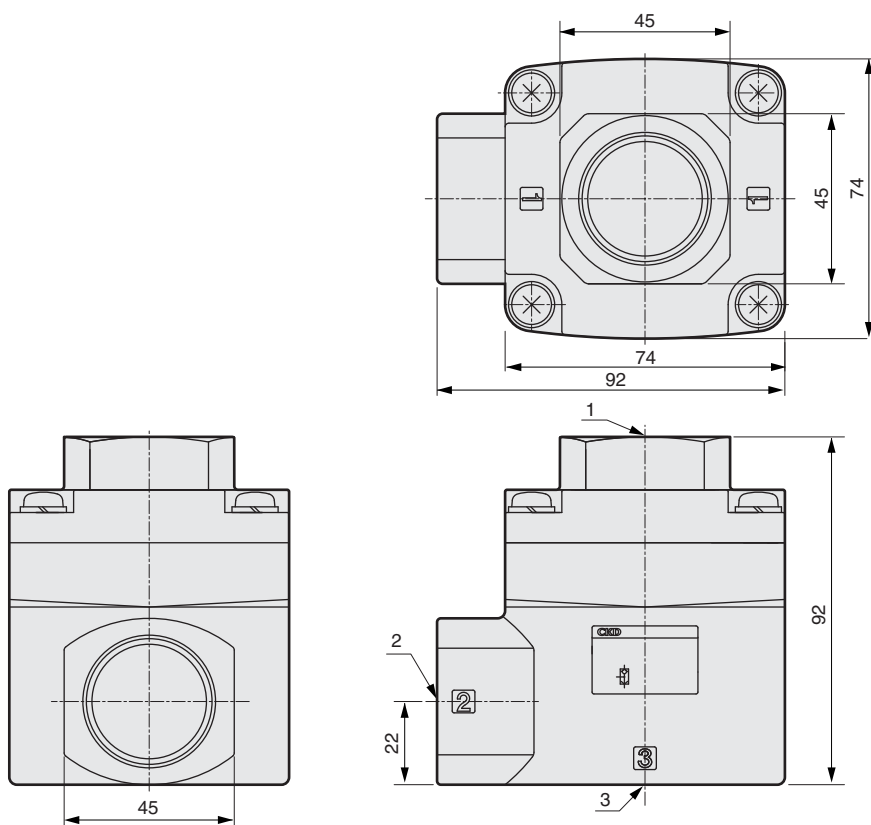
(Piping port indication)

Port symbol	Descriptions
1	A (input)
2	OUT (output)
3	B (input)

Dimensions



● SHV2-20/25



Model no.	Port position		
	1	2	3
SHV2-20		Rc 3/4	
SHV2-25		Rc 1	

(Piping port indication)

Port symbol	Descriptions
1	A (input)
2	OUT (output)
3	B (input)

Safety Precautions

■ Design & Selection

- This valve can not be used as a stop valve that has no leakage. Slight leakage is allowed in product specifications.
- While there is no direction to the installation, use in a range with little differential pressure (0.05MPa or less), the movement could become dull.

■ Installation & Adjustment

- Apply recommended tightening torque when connecting pipes.
 - To prevent air leakage or damage of screw.
 - First tighten the screw by hand to prevent threads are not damaged, then use a tool.
 - Do not tighten while pressure is applied.
- Install an air filter just before the pneumatic component in the circuit.

■ During Use & Maintenance

- Before replacing tubing, stop the air flow and confirm that no pressure remains.

(Recommended tightening torque)

	Tightening torque N·m
Rc 1/8	3 to 5
Rc 1/4	6 to 8
Rc 3/8	13 to 15
Rc 1/2	16 to 18
Rc 3/4	19 to 40
Rc 1	41 to 70

Refrigerating type dryer
Desiccant type dryer
High polymer membrane type dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
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Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

Shuttle valve
Auxiliary valve