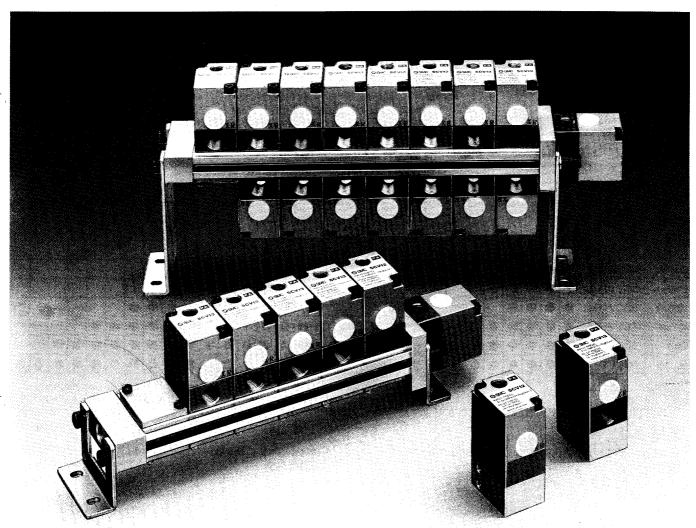


## Air Operated Valve for Solvent Based Paint

# Series SCV



### Number of changeable paint colors Up to 15 colors

- One side valve mounting up to 7 colors
  Both side valve mounting up to 15 colors

### Excellent corrosion resistance

Main valve, diaphragm: PTFE Carlets®( from DU PONT)

### Long life

on the same manifold base.

The moving part of the valve does not contact the fluid thanks to diaphragm construction that enables the valve to be lubricated.

Valves for washing and painting are integrated onto the same manifold.

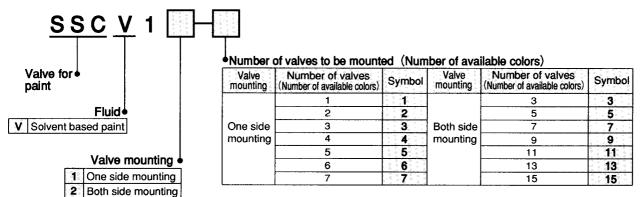
All the valves necessary for changing paint colors can be mounted

### High washing efficiency allows for reduction in the quantity of solvent required. Designed with a minimum amount of internal dead space to prevent paint build up.

Special surface treatment used to prevent paint from adhering to the valve.

## Air Operated Valve For Solvent

### How to Order Manifold Base

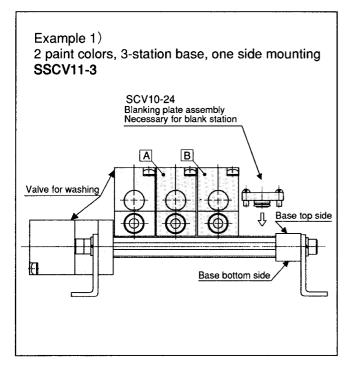


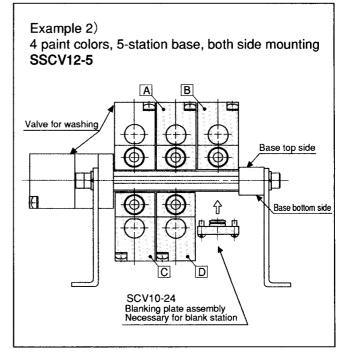
- \*When ordering a manifold base, specify both model no. and quantity of valves to be mounted.
- \* A thinner valve for washing, an air valve for washing (SCV12) and mounting brackets are already assembled onto the manifold base.

### Maximum Number of Valves for Painting to be Mounted (Number of available colors)

One side m	nounting									
Specifications	Model no	Number of valves (Number of available colors )								
		1	2	3	4	5	6	7		
1-station	SSCV11-1	•								
2-station	SSCV11-2	•	•							
3-station	SSCV11-3	•	•	•						
4-station	SSCV11-4	•	•	•	•					
5-station	SSCV11-5	•	•	•	•	•				
6-station	SSCV11-6	•	•	•	•	•	•			
7-station	SSCV11-7	•	•	•	•	•	•	•		

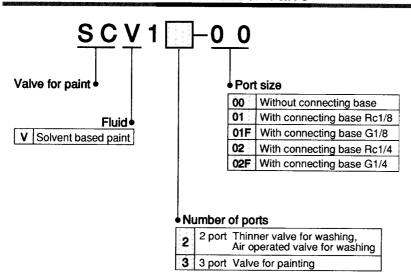
Specifications Model no.	N	Number of valves (Number of available colors)									)					
Specifications	Migaer 110.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3-station	SSCV12-3	•	•	•												
5-station	SSCV12-5	•	•	•	•	•										
7-station	SSCV12-7	•	•	•	•	•	•	•								
9-station	SSCV12-9	•	•	•	•	•	•	•	•	•						
11-station	SSCV12-11	•	•	•	•	•	•	•	•	•	•	•				
13-station	SSCV12-13	•	•	•	•	•	•	•	•	•	•	•	•	•		
15-station	SSCV12-15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•





## Based Paint Series SCV

### How to Order Valve



### Part No.

Blanking plate	SCV10-24 (With O-ring, screws, plug)
Bracket	SCV10-23-S (For one side mounting manifold base)
Diacket	SCV10-23-L (For both side mounting manifold base)

(Model)

SSCV11-3 -SCV13-00 -

SCV10-24 -

(Model)

SSCV12-5 -

SCV13-00 ·

SCV10-24 -

(Quantity)

(Quantity)

### Ordering

Specify model no. of the base, valve(s) for painting and blanking plate if required.

Example 1) 2 colors of paint, 3-station, one side mounting

- Refer to page 1 "Maximum number of valves for painting to be mounted."
  - ●SSCV11-3 ------1 pc.
- 2. Valve for painting

1. Manifold base

- ●SCV13-00 —— 2 pcs.
- 3. Blanking plate

When only 2 valves are mounted on a 3 station manifold a blanking plate is required on the third station.

●SCV10-24 ----- 1 pc.

Example 2) 4 colors of paint, 5-station, both side mounting

- Manifold base
   Refer to page 1 "Maximum number of valves for
  - painting to be mounted."
  - ●SSCV12-5 ------1 pc.
- 2. Valve for painting
  - ●SCV13-00 ——4 pcs.
- Blanking plate
   In this example only 4 valves are mounted on a 5 station manifold, therefore, a blanking plate is required on the fifth station.
  - ●SCV10-24 1 pc.

### **Piping**

- 1.Threads for IN port and OUT port are different. IN port : G1/4 Circulation port : Rc1/4
- 2.Use special insert fitting at the IN piping for maximum washing performance.
   (Contact SMC when fittings other than the special design model are required.)
- When screwing a pipe or fitting into a port, ensure that chips or sealing materials do not enter the air passage.
- 4.Only Teflon (PTFE) tubing should be used with the paint valve.
- 5.Filter solid materials more than 150 µ m out of the fluid. Ignoring this precaution may result in valve malfunction.
- Paint should not be exposed to air for long periods of time.
- 7.When the paint valves are not operated for long periods of time, often the paint will harden and prevent the valve from operating properly. The following are some of the reasons why the paint will harden and countermeasures to prevent it from occurring.

Reason	Countermeasure
Percentage of solvent in the paint is reduced.	A decrease in solvent is caused by evaporation. To prevent this keep the system free of leaks and keep the valve full of paint to prevent any air from becoming trapped within the valve.
Resin within the paint crystalizes.	Use only fresh paint.
Ambient temperature is too high.	Adjust ambient temperature to match the temperature specifications of the paint being used.

Special Fitting

Type	Model no.	Size (O.D. / I.D.)	Port size	
	IN-273-11	\$4 / \$2		
Half union	IN-273-13	\$6 / \$4		
	IN-273-15	\$8 / \$6		
	IN-273-12	ø4 /ø2		
Long half union	IN-273-14	ø6 / ø4		
Long hall union	IN-273-16	φ8 / φ6		
	IN-273-24	\$ 10/\$8		
	IN-273-17	\$4 / \$2	G1/4	
Elbow union	IN-273-19	φ6 / φ4		
LIBOW dillon	IN-273-21	φ8 / φ6		
	IN-273-25	ø 10∕ø8		
	IN-273-18	φ4 / φ2		
Long elbow	IN-273-20	φ6 / φ4		
union	IN-273-22	φ8 / φ6		
	IN-273-26	φ10/φ8		
With check valve	INA-14-112			

Note 1) Use series KF insert fitting at circulation port. Note 2) Use KQ one-touch fitting or KF insert fitting at

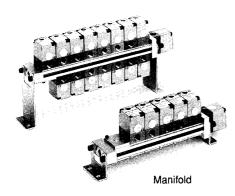
pilot port.

## Air Operated Valve

## Series SCV For Solvent Based Paint







### Specifications/Valve

Model no.		SCV12	SCV13						
Port		2 port	3 port						
Fluid		Note1) Paint,Thinner, Air							
Action		Air operated type							
	pase specification	Valve for washing	Valve for painting						
	IN port	G 1/4							
Port size	Circulation (return) port		Rc 1/4						
	Pilot port	Rc 1/8							
Operating	fluid pressure	0~0.7MPa {0-	~7.1kgf∕cm²}						
Pilot press	sure	0.4~0.7MPa {4.1~7.1kgf/cm²}							
Effective a	area	9 mm² (Cv: 0.5)			9 mm² (Cv: 0.5)				
Ambient to	emperature	5~(	300						
Weight		0.1	5kg						

<sup>\*</sup>When only one valve is required for a painting application, the valve is available mounted on a special base. Note 1) This valve can only be used with solvent based paints.

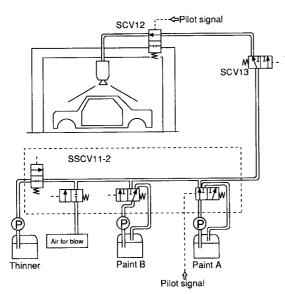
### Specifications/Manifold Base

Valve mounting	One side mounting	Both side mounting				
Base model	SSCV11	SSCV12				
Number of changeable paint colors	1 ~ 7 (colors)	1~15 (colors)				
Manifold type	B mount					
Port size OUT port	G1/4					
Base material	Aluminum					
Seal material	Zalak® *					
Standard attachment	Thinner valve for washing (SCV12-00) Air valve for washing (SCV12-00), Bracket					

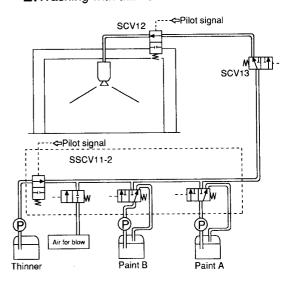
<sup>※</sup>Zalak® is a registered trademark of DU PONT.

### Application Examples of Valves for Painting

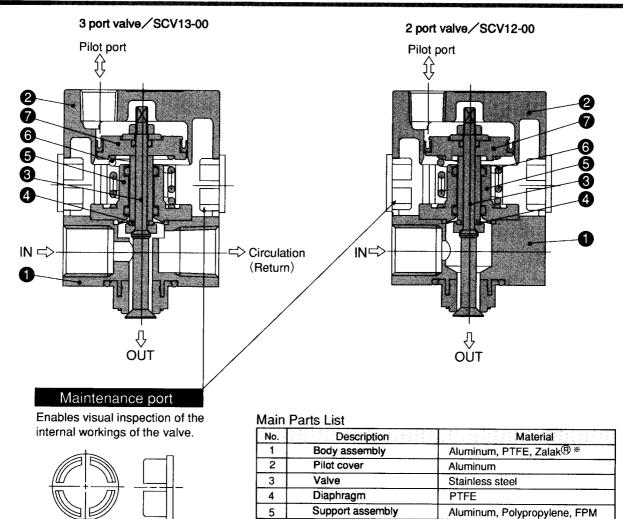
### 1. Painting with paint A



#### 2. Washing with thinner



### Construction



Spring

Piston assembly

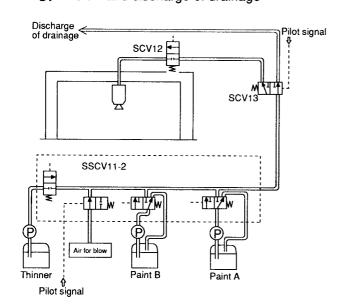
※ Zalak<sup>®</sup> is registered trademark of DU PONT.

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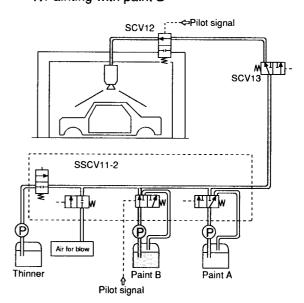
### 3. Air blow and discharge of drainage

SCV010-11

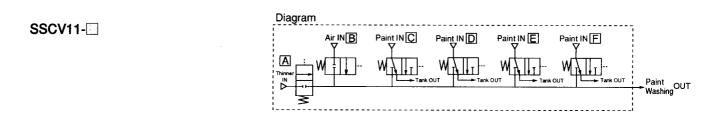
Blanking plug

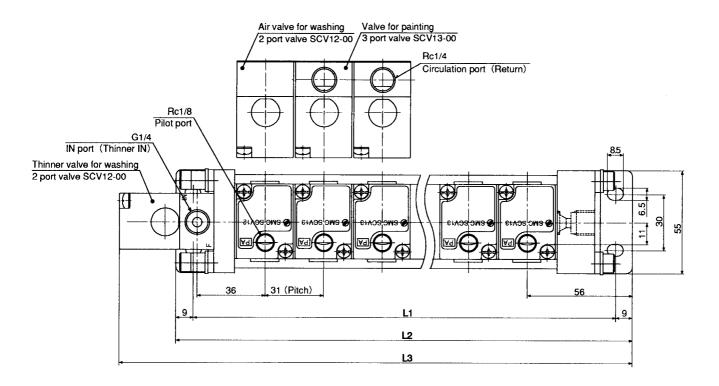


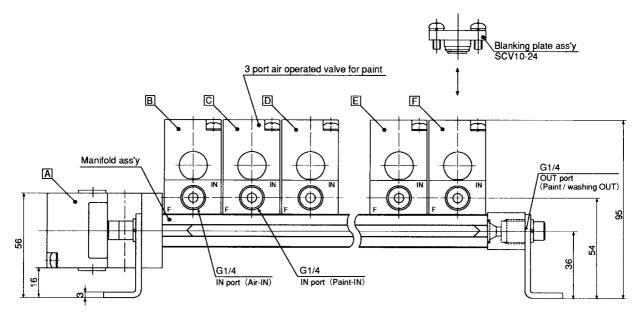
### 4. Painting with paint B



Stainless steel Aluminum, FPM

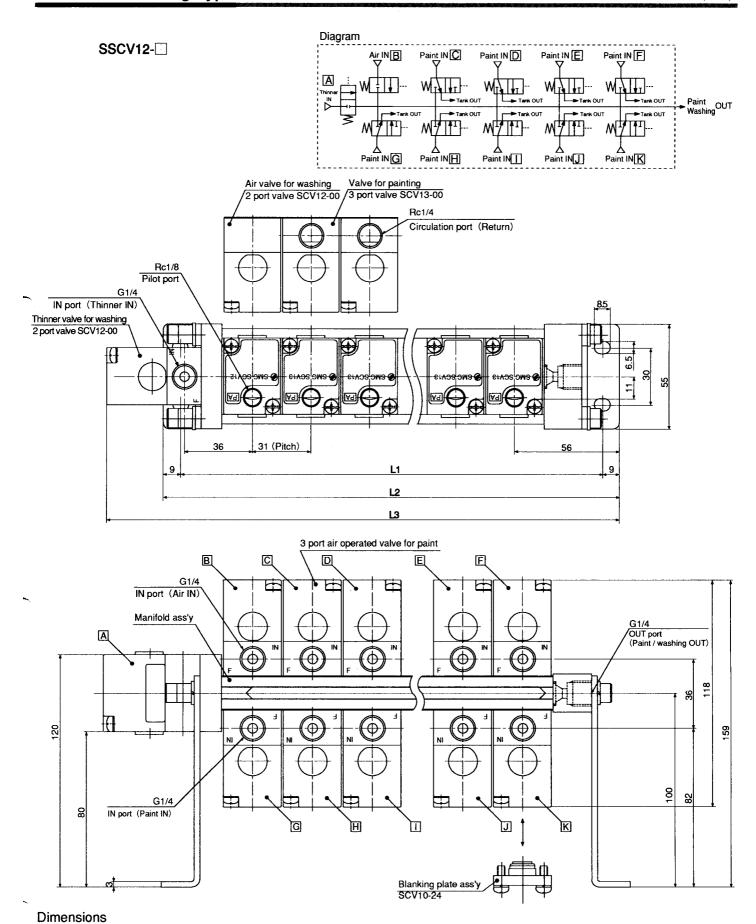






#### **Dimensions**

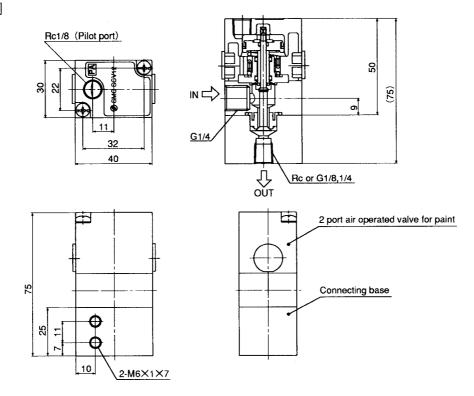
<u> </u>							
Base	1 pc.	2 pcs.	3 pcs.	4 pcs.	5 pcs.	6 pcs.	7 pcs.
L1	116	147	178	209	240	271	302
L2	134	165	196	227	258	289	320
L3	164	195	226	257	288	319	350
Max.number of available colors in		2	<b>.</b> 3	4	5	6	7



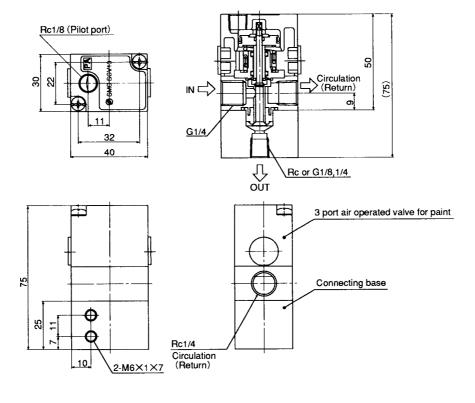
Base	3 pc.	5 pcs.	7 pcs.	9 pcs.	11 pcs.	13 pcs.	15 pcs.
L1	116	147	178	209	240	271	302

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L1	116	147	178	209	240	271	302
L2	134	165	196	227	258	289	320
L3	164	195	226	257	288	319	350
Max number of available colors in	3	5	7	9	11	13	15

#### SCV12-



### SCV13-



### **SMC CORPORATION**

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