

Precision Valve systems that are durable and reliable with low maintenance

## SV Series Valves

With superior durability and accuracy, SV series valves provide very reliable dispensing solutions with low maintenance finely applied to individual applications.

### Spray valves

For moisture-proof material or lubrication coating



#### SV91

- Consistent area of coverage by low volume low pressure
- Nozzle air and fluid flow rate are adjustable
- No overspray, no mist

#### SV97MS

- Drip-free shut off
- No overspray, no mist
- Consistent size and placement

#### Spray valve controller SVC600



SVC600 provides low volume low pressure fine spray coating driven by a solenoid and nozzle pressure at the range from 0 to 0.2Mpa. SVC600H is capable of supplying up to 0.6Mpa.

### Conformal coating valve

Fast, precise conformal coating for moisture-proof material



#### SV71

- Applying a film of moisture-proof material
- Square-cut nozzle reduces clogging
- Large coverage of coating with low flow rate

#### Conformal coating valve controller SVC700



SVC700 ensures easy control for conformal coating. Fast response pneumatic solenoid adjoined to SV71 maximizes the coating performance

### Diaphragm valve

Accurate and speedy shut-off movement provides no drips



#### SV62

- Compact size and weight allowing easy installation
- Fluid flow control is adjustable
- UHMW chamber suited for reactive material

#### SV62-D

- Positive shut off
- Unique design eliminates trapped air and bubbles
- Compact and light weight

#### SV12

- Extremely small design (length:63.2mm weight:85g)
- Positive shut off
- No sealing parts



## Piston Valves

For precise deposits of mid-to-high viscous fluids like sealant



### SV35DA

- Adjustable fluid flow control
- Positive shut off
- Excellent chemical resistance



### SV35HF

- Pullback movement for clean cut off
- Stainless-steel fluid chamber
- Low maintenance design

## Needle valves

For consistent microdot application for UV material, solvent or oil



### SV51

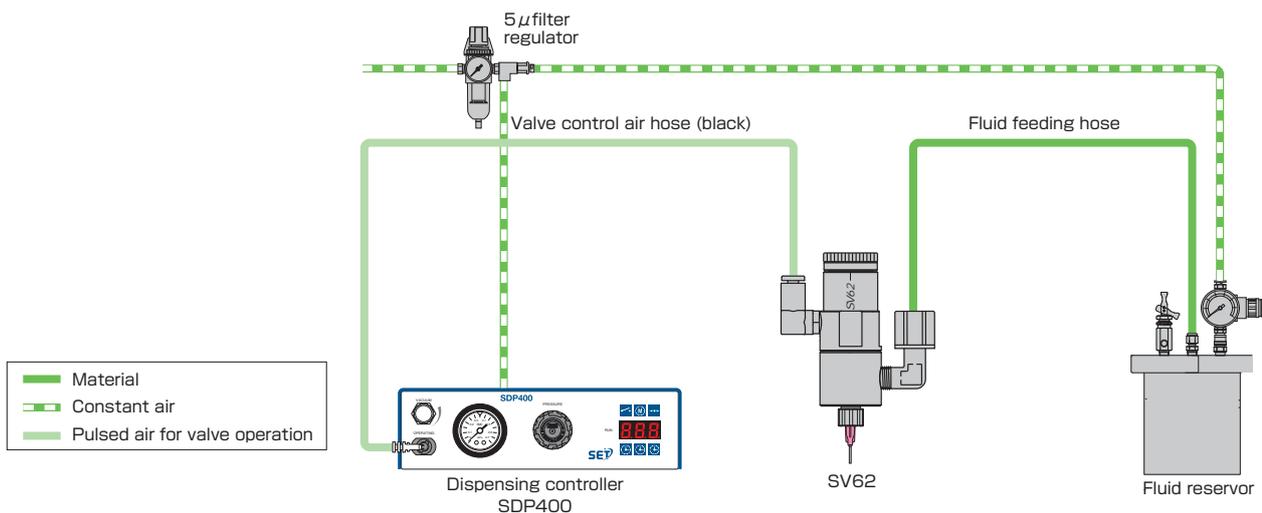
- Adjustable fluid flow control
- Unaffected by entrapped air in fluids
- Drip-free shut off



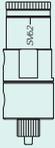
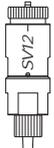
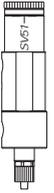
### SV51MD

- Consistent microdots
- Fluid volume is adjustable
- Drip-free shut off

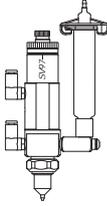
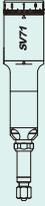
## Installation



## Valve specification

Application	for low viscosity fluids			for low-to-mid viscosity fluids	
Model	<i>SV62</i>	<i>SV62-D</i>	<i>SV12</i>	<i>SV51</i>	<i>SV51MD</i>
					
Valve type	Diaphragm type			Needle type	
Fluids	Anaerobics (Cyanoacrylate), Epoxies, UV-cure, Solvents	Resists, Epoxies, UV-cure, Solvents	Resists, Epoxies, UV-cure, Solvents	Sealants, Epoxies, UV-cure, Greases	(A SV51 series valve designed for smaller amount dispensing)
Feature	Standard diaphragm valve, capable of applying reactive adhesives such as Cyanoacrylates. Use black head for UV-cure adhesives	Specifically designed for resist coating in media manufacturing of DVDs or CDs ensuring bubble-free dispensing with a higher fluid flow rate	Small, light weight structure is ideal for fitting to where space is tight	Very versatile. Unique packing structure greatly improves durability	With a SET GP needle tip ranging from 22 to 33 gage, highly repeatable small amount of dispensing can be achieved without dripping
Stroke adjustment	Yes	Yes	Yes	Yes	Yes
Weight and size	154g φ26.9×79.0mm	212g φ26.9×77.7mm	85g φ18.9×63.2mm	312g φ26.9×113.0mm	320g φ26.9×130.0mm
Connections	Inlet : 1/8NPT Outlet : 1/4-28UNF*1 Mounting hole : M5×0.8	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M5×0.8	Inlet : M5 Outlet : 1/8NP*1 Mounting hole : M5×0.8	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M6×1	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M6×1
Wetted parts	UHMW	UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel
Maximum fluid pressure	0.48Mpa	0.48Mpa	0.48Mpa	0.7Mpa	0.7Mpa

\*1 Luerlock-type nut is an option

for mid-to-high viscosity fluids		for spray coating		for conformal coating
SV35DA	SV35HF	SV91	SV97MS	SV71
				
Piston valve type		Needle type		
Sealants, Epoxies, UV-cure, Greases	(A SV35 series valve designed for higher flow rate)	Inks, Lubricants, Fluxes, Solvents	(A SV91 series valve designed for smaller amount dispensing)	Moisture-proof material
Snuff-back function ensures positive shutoff the fluid even with a mid to high viscous material like sealants	Larger fluid channel enables high amount of fluid flow.	Specifically designed for spray coating process. Special nozzles and caps are selectable depending on the requirements	With a SET GP needle tip ranging from 23 to 33 gage, highly repeatable small amount of dispensing can be achieved without dripping	Specifically designed for the conformal coating process. Effective square-cut nozzle ensures high quality of conformal coating.
Yes	No	Yes	Yes	Yes
379g φ28.5×141.0mm	333g φ31.1×100.0mm	294g φ26.9×105mm	308g φ26.9×130.0mm	460g φ35.0×176.5mm
Inlet : 1/8NPT Outlet : 1/4NPT*1 Mounting hole : M8×1.25	Inlet : 1/4NPT Outlet : 1/4NPT*1 Mounting hole : M8×1.25	Inlet : 1/8NPT (special nozzles caps) Mounting hole : M6×1	Inlet : 1/8NPT (SET standard tip cap) Mounting hole : M6×1	Inlet : 1/8NPT (circulation type) (special nozzle) Mounting hole : 2-φ5.5
UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Aluminium 303 stainless steel
0.7Mpa	0.7Mpa	0.7Mpa	0.7Mpa	5.0Mpa

All wetted parts of stainless-steel valves are passivated.