

# SV51

## Making accurate, repeatable microdeposits of low viscosity assembly fluids

The SV51 precision needle valve is designed to apply low-viscosity fluids as small as 0.001 cc with accurate, repeatable and consistent deposit control. SV51 features a high degree of control with minimal maintenance for millions of cycles.

### Features

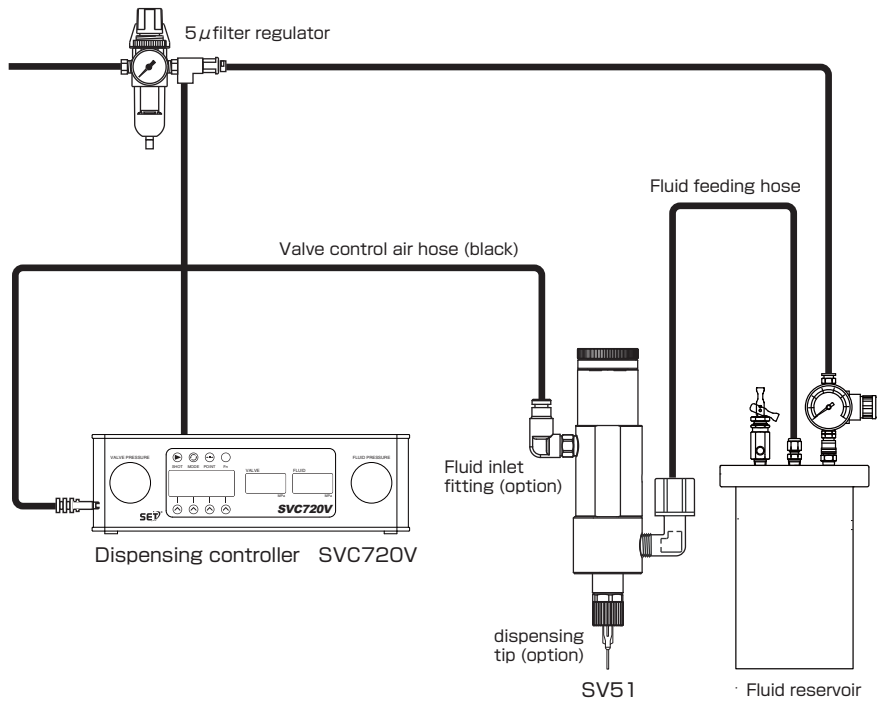
- Adjustable fluid flow control
- Unaffected by entrapped air in fluids
- Drip-free shut off
- Low-maintenance design

### Product specification

Size	ø26.9mm (Fluid body) x 113mm length
Weight	312g (except fluid inlet fitting part)
Fluid body	SUS303
Tip adapter /Needle sheet	SUS303
Air cylinder body	SUS303
Piston needle	SUS303
Needle packing	Teflon®, SUS303
Fluid inlet thread	1/8NPT female
Valve operating air inlet thread	M5×0.8 female
Mounting	M6 tapped hole
Valve operating air pressure	0.4~0.62MPa
Maximum fluid pressure	0.7MPa



# SV51 precision needle valve system



## Dispensing controller SVC720V

Consistent, precise volume control for high precision dispensing valves



- Parameters can be fine-tuned by digital display
- Faster response time
- Stabilized by internal precision regulator

Dimension: W250×D139(177)×H76(78)  
 ( ) including protruding portion  
 Weight: 1.5kg  
 Air Input Requirement: 0.4 - 0.7MPa  
 Pressure setting range: 0~0.50MPa ( Valve operational air is more than 0.40MPa )  
 Power: DC24V (VAC100-240 adapter)

## How the Valve Operates

Input air pressure retracts the piston and needle from the needle seat in the dispensing tip, permitting fluid flow through the dispensing tip .

Once the cycle is complete, air pressure is exhausted, causing the piston spring to return the needle back to its position in the dispensing tip, stopping fluid flow (Figure 1-2).

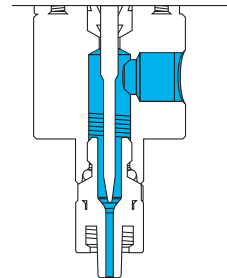


Figure 1

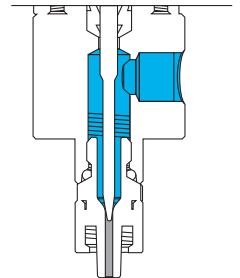


Figure 2



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