

# 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

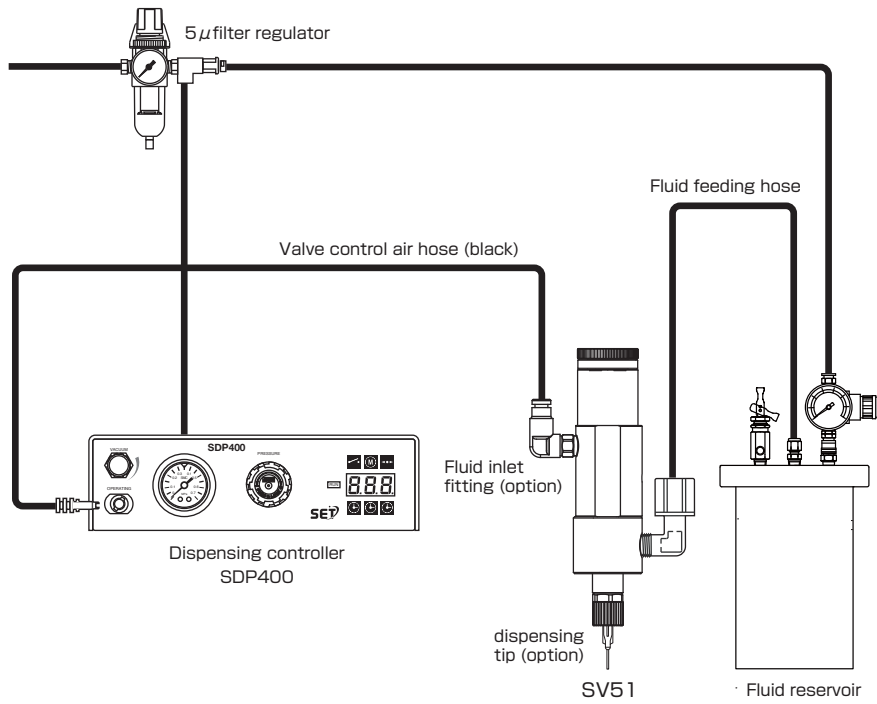
- Adjustable fluid flow control
- Unaffected by entrapped air in fluids
- Drip-free shut off
- Low-maintenance design

## Product specification

Size	φ26.9mm (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 SDP400

Stabilized by internal air pressure reservoir



- Volume can be adjusted by TEACH function
- Highly controlled by Timer, Steady and Teaching modes
- Vacuum function prevents dripping

Cabinet Dimensions: W250×D141(190)×H73(78)mm  
 ( ) including protruding portion  
 Weight: 1.9kg  
 Air Input Requirement: 0~0.7Mpa maximum※  
 Dispensing time setting range: 0.005~99.9sec  
 Input AC: DC24V(AC100~240V adapter included)

※ Purified dry air or a 5 micron filter is required.

## 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).

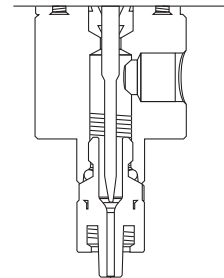


Figure 1

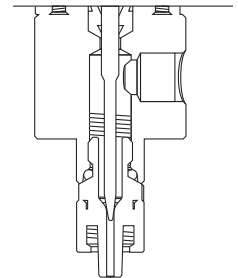


Figure 2

# SAN-EI TECH LTD.

Head office; 7-1-15 Kashiwa Kashiwa-shi, Chiba 277-0005 Japan  
 Branch offices; Sendai, Nishi-Kanto, Nagoya, Osaka