

SV51MD

Precision needle valve ideal for consistent microdot application

The SV51MD microdot dispense valve is designed to apply consistent, precise amounts of assembly fluids ranging from UV-cure adhesives to solvents, lubricants and epoxies.

SV51MD provides extremely accurate results with 22 to 33 gauge dispensing tips often used in critical automated assembly processes.

Features

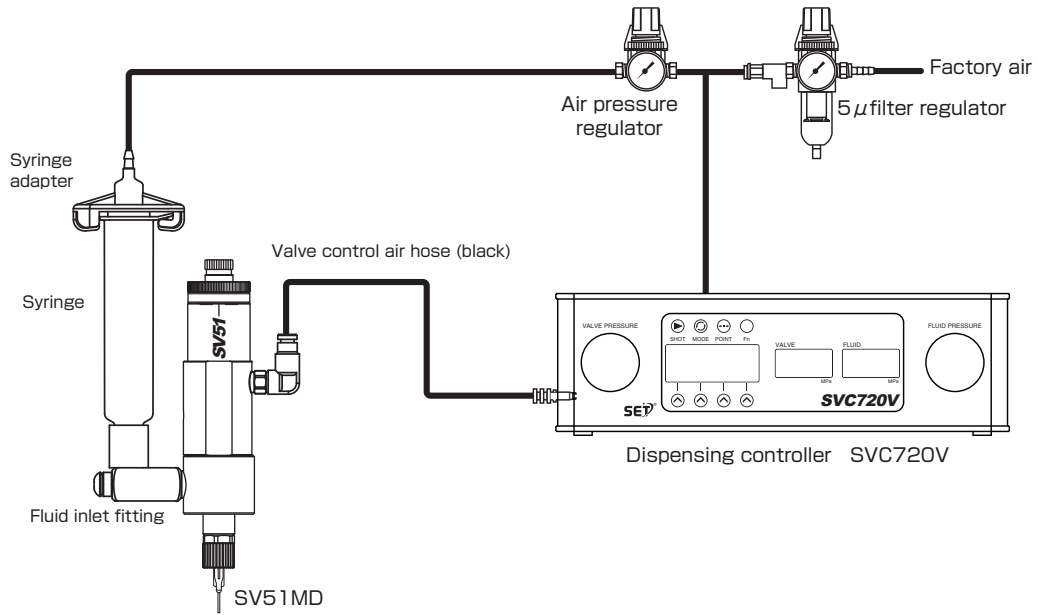
- Consistent microdots
- Fluid volume is adjustable
- Drip-free shut off

Product specification

Size	φ26.9mm (Fluid body) x 130mm length
Weight	320g (except fluid inlet fitting part)
Fluid body	SUS303
Fluid inlet fitting, tip adapter	SUS303
Tip adapter	SUS303, Teflon [®]
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
Free flow orifice	GP needle tips 22ga (ID φ0.41 mm) to 33ga (ID φ0.10mm)
Valve operating air pressure	0.4~0.62MPa
Maximum fluid pressure	0.7MPa



SV51MD microdot 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: W250xD139(177)xH76(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 needle from the hub of the dispensing tip, permitting fluid to flow. (Figure 1)

Once the cycle is completed, the piston spring returns the piston needle back to its position in the dispensing tip to shut off the fluid. (Figure 2).

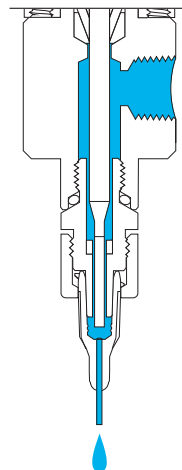


Figure 1

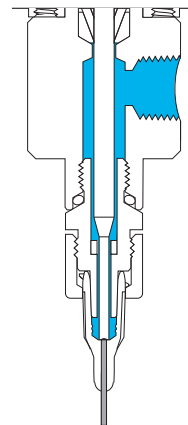


Figure 2



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