

SV97MS

Exact micro spray patterns as small as 3.0 mm

The SV97MS precision micro spray valve is designed to produce uniform spray patterns between 3.0 mm and 20 mm using low volume low pressure air. With small dispensing tip ranging from 0.33 mm to 0.10 mm in diameter, the spray pattern can be made smaller than a standard spray valve by more than 60%. SV97MS also features positive cut-off without remaining dead fluid volume.

Features

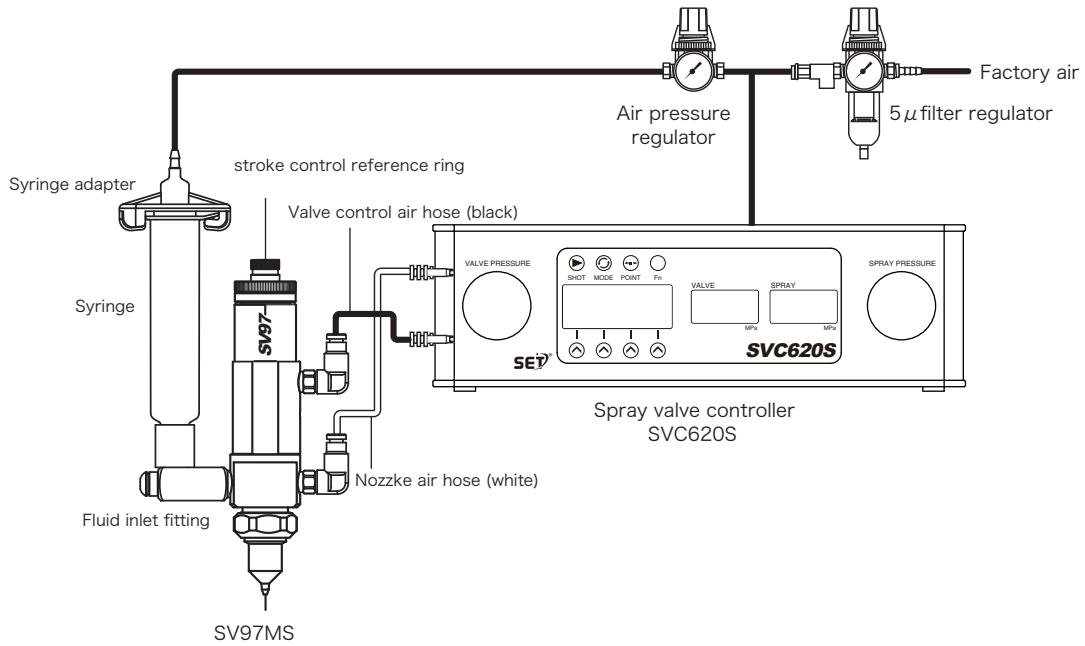
- Drip-free shut off
- No overspray, no mist
- Consistent size and placement

Product specification

Size	φ 26.9mm (Fluid body) x 130mm length
Weight	308g
Fluid body	SUS303
Fluid inlet fitting, tip adapter	SUS303
Air cap	SUS303
Air cylinder body	SUS303
Piston needle	SUS303
Needle packing	Teflon®, SUS303
Fluid inlet thread	1/8NPT female
Valve operating air inlet thread	M5x0.8 female
Mounting	M6 tapped hole
Free flow orifice	GP needle tips 23ga (ID φ 0.33mm) to 33ga (ID φ 0.1 mm)
Valve operating air pressure	0.4~0.62MPa
Maximum nozzle air pressure	0.2MPa(regulated)
Maximum fluid pressure	0.7MPa



SV97MS precision micro spray valve system



Dispensing controller SVC620S

Consistent, precise spray control



- Stackable squared design
- Nozzle air delay function makes positive shut off
- Spray volume can be adjusted by TEACH function

Dimension: W250xD139(177)×H76(78)
 () including protruding portion
 Weight: 1.5kg
 Air Input Requirement: 0.4 - 0.7MPa
 Time setting range: 0.005~999.9sec
 Power: VDC24 (VAC100-240 adapter)

How the Valve Operates

Input air pressure retracts the needle from the nozzle seat, allowing fluid to flow from the dispensing tip. At the same time, nozzle air is turned on and flows from an annulus around the dispensing tip. This adjustable nozzle air creates a pressure drop around the nozzle causing the fluid to atomize into fine droplets.

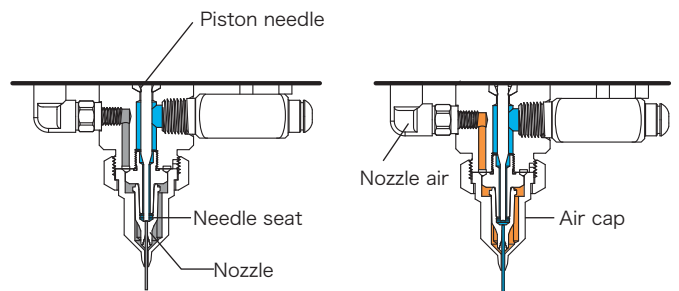


Figure 1

Figure 2



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