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Dispensing Product Guide





Solution
Evolution
Technology

When it comes to providing solutions to problems associated with fluid dispensing, SAN-EI TECH has long served customers across industrial sectors with unparalleled technical expertise. SAN-EI TECH continues to offer diverse products that deliver both quality and value and flexibly respond to market demands for higher precision and performance.

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SET Dispensers ensure superior quality and yields in assembling processes

SDP/SVC Series Dispensers are designed to control application of adhesives, lubricants and other assembly fluids increasing throughput, improving yields and reducing production costs.

Standard dispensers

SDP500

>>P6



Most versatile, all-digital display for optimal process control

SDP300

>>P7



Economical, compact dispenser increases yields and improves bond quality

SDP400

>>P7



Programmable dispenser ensures a high degree of process control

SDP400-30 (with low pressure)

Valve controllers

Spray valve controllers

SVC600

>>P8



Consistent, precise volume control for exact spray pattern definition

SVC600D

>>P8



All digital display ensures versatility and flexibility for precise spray control

Conformal coating valve controller

SVC700

>>P9

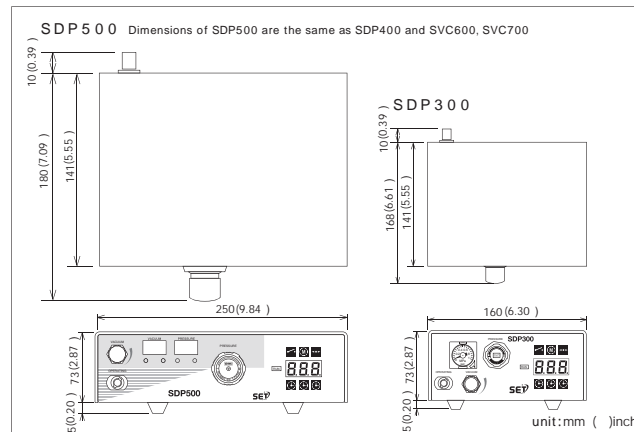


Fast response pneumatic solenoid maximizes dispensing performance

Specifications

	Standard dispensers			Valve controllers		
	SDP300	SDP400 SDP400-30	SDP500	SVC600	SVC600H	SVC600D
Power supply	24VDC (100AC ~ 240VAC adapter included)					
Power consumption	Approximately 20W					
Dispensing pressure setting range	0.7MPa max		0.4MPa ~ 0.6MPa			0.7MPa max
	Note: Clean, dry filtered factory air or five micron filter regulator is required.					
Supply air pressure	0 ~ 0.7MPa 0 ~ 0.2MPa (SDP400-30)		0 ~ 0.6MPa	—		0 ~ 0.7MPa
Valve operating pressure	—		—	0.4MPa ~ 0.6MPa max (depending on air supplied)		0.4MPa ~ 0.6MPa (adjustable within range)
Nozzle air pressure setting range	—		—	0 ~ 0.2MPa	0 ~ 0.6MPa	—
Dispensing time setting range	0.005 ~ 99.9sec					
Cycle activation	Foot pedal switch, finger switch, signal from 5DC to 24V (I/O)					
Input or Output signal	D-Sub 9 pin connector					
Ambient operating conditions	5 to 45 (non-condensing)					
External dimensions	W160 x D141(178) x H73(78)mm		W250 x D141(190) x H73(78)mm			
Weight (Approximately)	1.2kg	1.9kg	1.8kg	1.9kg	1.7 kg	
Attachment	AC adaptor, foot pedal switch					
Options*1	syringe adapter syringe piston dispensing tip finger switch			SV9 series spray valve fluid reservoir syringe adapter syringe piston		SV71 conformal coating valve fluid reservoir circulatory-temperature control system

Dimensions



*1 : Please contact us for more information.

SDP500

Most versatile, all-digital display for optimal process control



The SDP500 dispensing controller is ideal for a wide range of applications that involve both manual operation and automated processing. All-digital display provides easy programming for processes that require a high degree of process control.

Features

- Volume can be adjusted by TEACH function
- Highly controlled by Timer, Steady and Teaching modes
- Vacuum function prevents dripping
- Stabilized by internal air pressure reservoir
- Most versatile, all-digital display for optimal process control



SDP500 can be used with SET component system

Input AC (to power supply)	DC24V (AC100 ~ 240V adapter included)
Power supply	20W
Air input requirement	0.7MPa maximum (Purified dry air or a 5 micron filter is required.)
Dispensing pressure setting range	0 ~ 0.6MPa
Dispensing time setting range	0.005 ~ 99.9sec
Cycle activation	Foot pedal, finger switch, signal for 5DC-24V(I/O)
Input / Output	9 pin DB connector
Ambient operating condition	5 ~ 40 (non-condensing)
Cabinet dimensions () including protruding portion	W250 × D141(190) × H73(78)mm
Weight	1.9kg
Accessories	AC adapter, foot pedal switch
Optional parts (Please contact us for details)	• syringe adapter · syringe · piston • dispensing tips · finger switch

Please contact us for more information

SDP400

Programmable dispenser ensures a high degree of process control



The SDP400 features an internal air pressure reservoir that enhances dispensing consistency.

SDP300

Volume can be adjusted by TEACH function



Highly controlled by Timer, Steady and Teaching modes. Vacuum function prevents dripping. Lightweight and easy-to-use design.

	SDP400	SDP400-30	SDP300
Input AC (to power supply)	DC24V (AC100 ~ 240V adapter included)		
Power supply	20W		
Air input requirement	0.7MPa maximum (Purified dry air or a 5 micron filter is required.)		
Dispensing pressure setting range	0-0.7MPa	0-0.2MPa	0 ~ 0.7MPa
Dispensing time setting range	0.005 ~ 99.9sec		
Cycle activation	Foot pedal, finger switch, signal for 5DC-24V(I/O)		
Input / Output	9 pin DB connector		
Ambient operating condition	5 ~ 40 (non-condensing)		
Cabinet dimensions () including protruding portion	W250 × D141(190) × H73(78)mm		W160 × D141(178) × H73(78)mm
Weight	1.9kg		1.2kg
Accessories	AC adapter, foot pedal switch		
Optional parts (Please contact us for details)	• syringe adapter · syringe · piston • dispensing tips · finger switch		

Please contact us for more information

SVC600

Consistent, precise volume control for exact spray pattern definition



The SVC600 is specifically designed to control valve open times and nozzle pressure for SV9 spray valves to achieve precise spray pattern definition. Low volume low pressure air up to 0.2MPa allows for high transfer efficiency without mist or overspray. Clean cut-off is ensured with a built-in adjustable delay when nozzle air shuts off.

SVC600D

All digital display ensures versatility and flexibility for precise spray control



The SVC600D can digitally read and set times and pressure for SV91 spray valves, which simplifies set up and operation and ensures versatility and flexibility for an individual spray coating process.

	SVC600	SVC600H	SVC600D
Input AC (to power supply)	DC24V (AC100 ~ 240V adapter included)		
Power supply	20W		
Air input requirement	0.4 ~ 0.6MPa (Purified dry air or a 5 micron filter is required.)		
Dispensing pressure setting range	0.4 ~ 0.6MPa depending on the supplied air pressure		
Nozzle air pressure setting range	0 ~ 0.2MPa	0 ~ 0.6MPa	
Dispensing time setting range	0.005 ~ 99.9sec		
Cycle activation	Foot pedal, finger switch, signal for 5DC-24V(I/O)		
Input / Output	9 pin DB connector		
Ambient operating condition	5 ~ 40 (non-condensing)		
Cabinet dimensions () including protruding portion	W250 x D141(190) x H73(78)mm		
Weight	1.8kg	1.9kg	
Accessories	AC adapter, foot pedal switch		
Optional parts (Please contact us for details)	• spray valve SV series • fluid reservoir • syringe • piston		

Please contact us for more information

SVC700

Fast response pneumatic solenoid maximizes dispensing performance



The SVC700 is specifically designed to maximize the dispensing performance of SV71 or SV70 conformal coating valves, for which an air pressure reservoir can stabilize supplied air for operation and ensure dispensing repeatability.

Input AC (to power supply)	DC24V (AC100 ~ 240V adapter included)
Power supply	20W
Air input requirement	0.7MPa maximum (Purified dry air or a 5 micron filter is required.)
Dispensing pressure setting range	0 ~ 0.7MPa
Dispensing time setting range	0.005 ~ 99.9sec
Cycle activation	Foot pedal, finger switch, signal for 5DC-24V(I/O)
Input / Output	9 pin DB connector
Ambient operating condition	5 ~ 40 (non-condensing)
Cabinet dimensions () including protruding portion	W250 x D141(190) x H73(78)mm
Weight	1.9kg
Accessories	AC adapter, foot pedal switch
Optional parts (Please contact us for details)	• Conformal coating valve (SV71, SV70) • Fluid reservoir • Circulatory temperature control system

Please contact us for more information

Precision valve systems that are durable and reliable with low maintenance

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

Diaphragm valves Accurate and speedy shut-off movement provides no drips



SV62

- Compact size and lightweight allows for 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 lightweight



SV12

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

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

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



SV35DA

- Positive shut off
- Pullback movement for clean cut off
- Excellent chemical resistance



SV35HF

- Adjustable fluid flow control
- Pullback movement for clean cut off
- Stainless-steel fluid chamber

High pressure spool valve

For consistent dispensing of sealants, greases and other high viscosity materials



SV46

- Fluid input up to 17.2MPa
- Compact size and lightweight
- Simplified maintenance

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 spray size and placement

Spray valve controller

The spray valve controller is specifically designed to control the precise spray pattern for spray valves. Low volume low pressure air up to 0.2MPa allow for high transfer efficiency without mist or overspray. SVC600H provides air pressure up to 0.6MPa.



SVC600



SVC600D (digital type)

Conformal coating valves 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



SV70

- Thin-film coated material can clearly form a pattern
- 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 coating performance.



Valve specifications

Application	For low viscosity fluids			For low-to-mid viscosity fluids		For mid-to-high viscosity fluids
Model	SV62	SV62-D	SV12	SV51	SV51MD	SV35DA
Valve type	Diaphragm type			Needle type		Piston valve 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)	Sealants, Epoxies, UV-cure, Greases
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 higher fluid flow rate.	Small, lightweight structure is ideal for fitting in tight spaces.	Highly versatile, unique packing structure greatly improves durability.	With an S.E.T. GP needle tip ranging from the 22 to 33 gauge, highly repeatable small amount of dispensing can be achieved without dripping.	Suck-back function ensures positive shut-off of fluid even with a mid to high viscosity material like sealants.
Stroke adjustment	Yes	Yes	Yes	Yes	Yes	Yes
Weight and size	154g 26.9 x 79.0mm	212g 26.9 x 77.7mm	85g 18.9 x 63.2mm	312g 26.9 x 113.0mm	320g 26.9 x 130.0mm	379g 28.5 x 141.0mm
Connections	Inlet: 1/8NPT Outlet: 1/4-28UNF*1 Mounting hole: M5 x 0.8	Inlet: 1/8NPT Outlet: Luer tapered*1 Mounting hole: M5 x 0.8	Inlet: M5 Outlet: Luer tapered*1 Mounting hole: M5 x 0.8	Inlet: 1/8NPT Outlet: Luer tapered*1 Mounting hole: M6 x 1	Inlet: 1/8NPT Outlet: Luer tapered*1 Mounting hole: M6 x 1	Inlet: 1/8NPT Outlet: 1/4NPT*1 Mounting hole: M8 x 1.25
Wetted parts	UHMW	UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	UHMW 303 stainless steel
Maximum fluid pressure	0.48MPa	0.48MPa	0.48MPa	0.7MPa	0.7MPa	0.7MPa

*1 Luerlock-type nut is an option

For mid-to-high viscosity fluids	For spray coating		For conformal coating		
SV35HF	SV46	SV91	SV97MS	SV71	SV70
Piston valve type	High pressure balanced-spool type	Needle type air atomizing spray nozzle		Needle type	
(A SV35 series valve designed for higher flow rate)	Sealants, Greases, Silicone	Inks, Lubricants, Fluxes, Solvents	(A SV91 series valve designed for smaller amount dispensing)	Moisture-proof material	Moisture-proof material
Larger fluid channel enables high amount of fluid flow.	Specifically designed to consistently dispense high viscosity materials at fluid pressure up to 17.2MPa.	Specifically designed for spray coating process, special nozzles and caps can be selected depending on requirements.	With an S.E.T. GP needle tip ranging from the 22 to 33 gauge, highly repeatable small amount of dispensing can be achieved without dripping.	Specifically designed for conformal coating process. Effective square-cut nozzle ensures high quality of conformal coating. Circulatory temperature control system can be used.	Specifically designed for conformal coating process. Effective square-cut nozzle ensures high quality of conformal coating.
No	No	Yes	Yes	Yes	Yes
333g 31.1 x 100.0mm	728g 38.1mm x 119.4mm	294g 26.9 x 105mm	308g 26.9 x 130.0mm	460g 35.0 x 176.5mm	334g 26.9mm x 141mm
Inlet: 1/4NPT Outlet: 1/4NPT*1 Mounting hole: M8 x 1.25	Inlet: 3/8NPT Outlet: 1/4NPT*1 Mounting hole:	Inlet: 1/8NPT (special nozzles caps) Mounting hole: M6 x 1	Inlet: 1/8NPT (SET standard tip cap) Mounting hole: M6 x 1	Inlet: 1/8NPT (circulation type) (special nozzle) Mounting hole: 2- 5.5	Inlet: 1/8NPT (special nozzle) Mounting hole: M6 tapped hole
UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Aluminium 303 stainless steel	UHMW 303 stainless steel
0.7MPa	17.2MPa	0.7MPa	0.7MPa	5.0MPa	0.7MPa

All wetted parts of stainless-steel valves are passivated.

SV62 Precision compact diaphragm valve for accurate flow control

The SV62 precision diaphragm valve is designed to dispense controlled amounts of low to medium viscosity fluids such as solvents, cyanoacrylates, anaerobics and fluxes without chemical reaction by isolating the fluid from the internal parts.

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

Size	26.9mm x 79mm length
Weight	154g
Air cylinder body	SUS303
Valve head	UHMW
Tip adapter	Polypropylene
Diaphragm	UHMW
Mounting	M5 x 0.8 female
Valve operating air pressure	0.4 ~ 0.62MPa
Maximum fluid pressure	0.48MPa

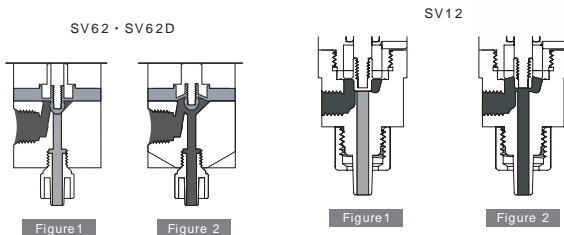
Ultra High Molecular Weight

Black head version for UV materials also available
 Part number : SV62B Tip adapter : POM (black)
 valve head : UHMW (black)



How the Valve Operates

Input air pressure retracts the internal piston. The piston rod opens the diaphragm seal, permitting fluid to flow. When the input air pressure is relieved, the spring retracts the piston and the diaphragm closes (Figure1-2).



SV62-D Compact diaphragm valve for low to medium viscosity fluids

The SV62-D valve is specifically designed for precise dispensing low to medium viscosity fluids. SV62-D provides quick valve ON/OFF and the ability to rapidly obtain maximum flow rates which reduces turbulence and the formation of bubbles.

- Positive shutoff, no seals
- Compact, lightweight and low-maintenance design
- Fluid flow control is adjustable

Size	26.9mm x 77.7mm length
Weight	212g
Air cylinder body	SUS303
Valve head	SUS303
Diaphragm	UHMW
Mounting	M5 x 0.8 female
Valve operating air pressure	0.4 ~ 0.62MPa
Maximum fluid pressure	0.48MPa

Ultra High Molecular Weight



SV12

Mini-diaphragm valve for controlled, consistent coatings where space is limited

The SV12 mini-diaphragm dispense valve is designed for drip-free coating and consistent shot-to-shot bonding of UV-cure adhesives and other low-to-medium viscosity fluids especially for applications where space is tight or limited.

- Compact and lightweight (length: 63.2mm, weight: 85g)
- No dripping at both start and stop
- Low maintenance for millions of cycles

Size	18.9mm (Fluid body) x 63.2mm length
Weight	85g
Fluid body	SUS303
Air cylinder body	SUS303
Mounting	M4 X 0.7 female
Diaphragm	UHMW
Valve operating air pressure	0.4 ~ 0.62MPa
Maximum fluid pressure	0.48MPa

Ultra High Molecular Weight



SV51

Making accurate, repeatable microdeposits of low viscosity assembly fluids

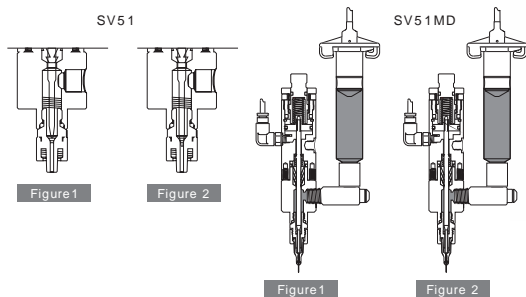
The SV51 precision needle valve is designed to apply low-viscosity fluids as small as 0.001 cc with accurate, repeatable and consistent deposit control. SV51 features a high degree of control with minimal maintenance for millions of cycles.

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

Size	26.9mm (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 x 0.8 female
Mounting	M6 tapped hole
Valve operating air pressure	0.4 ~ 0.6MPa
Maximum fluid pressure	0.7MPa

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).



SV51MD

Precision needle valve ideal for consistent microdot application

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

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

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

Size	26.9mm (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 x 0.8 female
Mounting	M6 tapped hole
Free flow orifice	GP needle tips 22ga (ID 0.41mm) to 33ga (ID 0.10mm)
Valve operating air pressure	0.4 ~ 0.6MPa
Maximum fluid pressure	0.7MPa



SV35DA

Positive shut off enhances accuracy and consistency for medium to thick fluids

The SV35DA precision piston valve is designed to apply accurate, uniform dots and stable medium to thick fluids such as grease and silicone without mess or drool. SV35DA features a unique UHMW polymer diaphragm sealing head that ensures long, trouble-free operation.

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

Size	28.5mm (Fluid body) x 141.0mm length
Weight	379g
Fluid body and cap	SUS303
Sealing / Diaphragm	UHMW
Fluid inlet thread	1/8 NPT female
Output thread	1/4 NPT female
Mounting hole	M8x1.25 female
Air pressure required	0.4 ~ 0.62MPa (4.0 ~ 6.2bar)
Maximum fluid pressure	0.7MPa (7bar)

Ultra High Molecular Weight



SV35HF

Fast and accurate filling process for low to high viscosity fluids

The SV35HF piston valve is specifically designed to dispense consistent, repeatable volumes of low to high viscosity materials. SV35HF features a fast, clean cut off that prevents dripping and drooling and excels in precision filling applications.

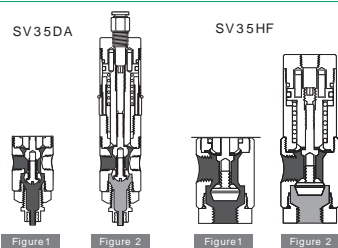
- Pull-back movement for clean cut off
- Stainless-steel fluid chamber
- Low maintenance design

Size	31.1mm (Fluid body) x 100.0mm length
Weight	333g
Shaft and sealing head thread	SUS303
Fluid body and cap	SUS303
Sealing / Diaphragm	UHMW
Air cylinder body	SUS303
Fluid inlet thread	1/4 NPT female
Output thread	1/4 NPT female
Mounting hole	M8x1.25 female
Air pressure required	0.4 ~ 0.62MPa (4.0 ~ 6.2bar)
Maximum fluid pressure	0.7MPa (7bar)

Ultra High Molecular Weight

How the Valve Operates

Input air pressure forces the internal piston to move down, causing the diaphragm seal to deflect and the sealing head to open and permit fluid flow. When the input air pressure exhausts, the spring retracts the piston and the sealing head closes, stopping the fluid flow and pulling back a slight amount of fluid (Figure 1-2).



SV46

High pressure spool valve for applying a neat bead of sealant and grease

The SV46 is an air-operated, balanced spool valve for consistent dispensing of industrial sealants, silicones and greases at input pressures up to 17.2MPa.

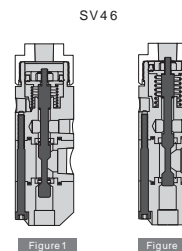
- Fluid input up to 17.2MPa
- Compact size and lightweight
- Simplified maintenance

Size	38.1mm (Fluid body) x 119.4mm length
Weight	728g
Fluid body and cap	Stainless steel
Air cylinder cap	Stainless steel
Air cylinder cap	aluminium
Spool shaft	Stainless steel (hard chrome plate)
Upper / lower sealing and O-ring	UHMW polymer ,EPR
Fluid inlet port	3/8 NPT female
Fluid outlet port	1/4 NPT female
Air inlet port	1/4 NPT female
Auxiliary air inlet port	1/8 NPT female
Oil inlet port	1/8 NPT female
Air pressure required	0.48 ~ 0.62MPa
Maximum fluid pressure	17.2MPa

Ultra High Molecular Weight

How the Valve Operates

Input air pressure acting on the piston shifts the spool to the open position allowing the fluid to flow. At the end of the cycle, the spring force on the piston shifts the spool to the closed position. During closing, the spool movement creates a "suck-back" anti-drip feature.



SV91

Low volume low pressure air provides consistent, precise spray coating

The SV91 spray valve is designed to provide consistent coating of low to medium viscosity fluids with low volume low pressure air. With the combination of adjustable fluid flow, adjustable nozzle air and post-air cut-off, SV91 ensures excellent spray control.

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


Size	26.9mm (Fluid body) x 105mm length
Weight	294g
Air cylinder body	SUS303
Fluid body	SUS303
Air cap	SUS303
Needle, nozzle	SUS303
Needle packing	Teflon®
Fluid inlet thread	1/8NPT female
Valve operating air inlet thread	M5 x 0.8 female
Mounting	M6 x 1 tap hole
Valve operating air pressure	0.4 ~ 0.62MPa
Maximum nozzle air pressure	0.2MPa (regulated)
Maximum fluid pressure	0.7MPa

Spray Area Coverage

Round pattern spray area coverage (A)

Nozzle dia	pattern	Nozzle distance from surface			
		25.4mm	50.8mm	76.2mm	152.4mm
46	1.17mm	6.3mm	12.7mm	19.0mm	38.1mm
28	0.70mm	5.0mm	10.1mm	15.2mm	30.4mm
14	0.40mm	4.3mm	8.6mm	12.7mm	25.4mm


unit : mm



Fan pattern spray area coverage (B)

Nozzle dia	pattern	Nozzle distance from surface			
		25.4mm	50.8mm	76.2mm	152.4mm
46F	1.17mm	25.4mm	38.1mm	50.8mm	82.5mm
46WF	1.17mm	38.1mm	63.5mm	82.5mm	165.1mm
28F	0.70mm	10.1mm	20.3mm	30.4mm	80.9mm
14F	0.40mm	8.6mm	17.2mm	25.4mm	50.8mm

unit : mm



Dispensing controller SVC600

SVC600 provides low volume low pressure fine spray coating driven by a solenoid and nozzle pressure at a range of 0 to 0.2MPa.

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



SV97MS

Exact micro spray patterns as small as 3.0 mm

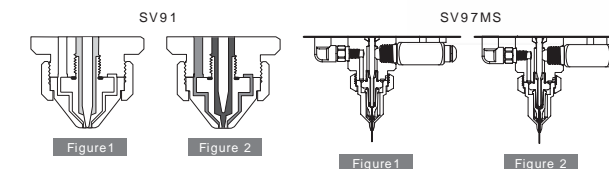
The SV97MS precision micro spray valve is designed to produce uniform spray patterns between 3.0 mm and 20 mm using low volume low pressure air. With small dispersing tips ranging from 0.33 mm to 0.10 mm in diameter, the spray pattern can be made smaller than a standard spray valve by more than 60%.

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

Size	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	M5 x 0.8 female
Mounting	M6 tapped hole
Free flow orifice	GP needle tips 23ga (ID 0.33mm) to 33ga (ID 0.1mm)
Valve operating air pressure	0.4 ~ 0.62MPa
Maximum nozzle air pressure	0.2MPa (regulated)
Maximum fluid pressure	0.7MPa

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.



SV71

Precision conformal coating for moisture-proof material

The SV71 conformal coating valve is designed to apply various patterns of moisture-proof material coating on PCBs with a lower flow rate.

SV71 ensures superior stability without over spraying as well as a faster and drip-free dispensing process.

- Square-cut nozzle reduces clogging
- Large coverage of coating with low flow rate
- Ensures dispensing consistency at start/stop points

Square-cut nozzle ensures a high-level dispensing process

- Rectangular geometry of the tip reduces clogging
- Carbide nozzle ensures reliability of the valve
- Equivalent-diameter tip provides large coverage of coating with low flow rate

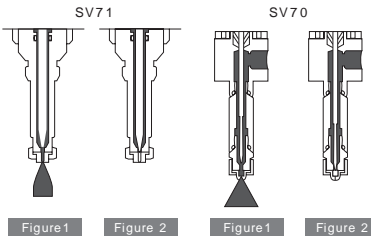


Size	35 x 176.5mm (with special bracket H= 12.5mm)
Weight	460g
Fluid body	SUS_aluminum
Installation hole	5.5mm (special bracket attached to two halls)
Maximum fluid pressure	5MPa
Temperature control	Option: circulatory temperature control system
Standard nozzles	#4, #6 (standard), #9

How the Valve Operates

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

Once the cycle is completed, air pressure is exhausted and the piston spring returns the needle to its original position to stop the fluid flow (Fig. 1-2).



SV70

Thin-film coated material forms a clear pattern definition

The SV70 conformal coating valve is designed to apply various patterns of moisture-proof material coating on PCBs with a lower flow rate.

With an innovatively designed square-cut nozzle, SV70 ensures superior stability without over spraying, as well as a faster and drip-free dispensing process.

- Ensures dispensing consistency at start/stop points
- Less maintenance required
- No mist, overspray, bubbles



Spray pattern

Size	26.9 (Fluid body) x 141 mm
Weight	334g (without square nozzle and fluid fitting)
Fluid body	SUS303
Installation hole	M6 tapped hole
Maximum fluid pressure	0.7MPa
Nozzle (option)	#4, #6, #9

* Fluid feeding channel of SUS valve is passivated.

Dispensing controller SVC700

Fast response pneumatic solenoid adjoined to SV70 maximizes the dispensing performance

- Stackable squared design
- Fast response solenoid allows rapid production time
- Stabilized by internal air pressure reservoir



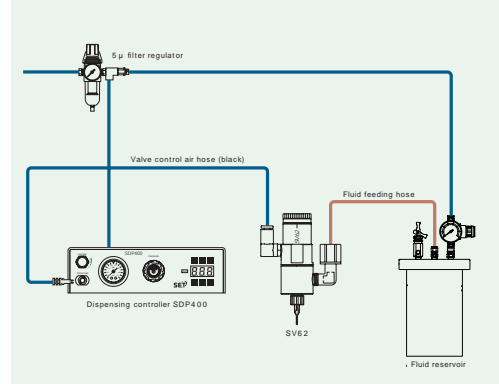
Valve applications

Fluids	Microdots	Dots	Potting	Encapsulating	Lines/ Stripes	Filling/ Packaging	Micro Spray	Spray
Accelerators	SV51	SV62	—	—	SV51	SV62	SV97MS	SV91
Activators	SV51	SV62	—	—	SV51	SV62	SV97MS	SV91
Alcohol	SV51	SV62	—	—	SV51	SV62	SV97MS	SV91
Anaerobics	SV62	SV62	—	—	SV62	SV35HF	—	—
Conformal coatings	SV51	SV62	—	SV62	SV62	SV35HF	SV97MS	SV91
Copper braze paste	—	SV35DA	—	—	SV35DA	SV35HF	—	—
Cyanoacrylates	SV62	SV62	—	—	SV62	SV35HF	—	—
Electrolytes	SV51	SV62	—	—	—	SV62	SV97MS	SV91
Epoxies	SV51	SV62	SV35DA	SV35DA	SV35DA	SV35HF	—	—
Fluxes, liquid	SV51	SV62	—	—	SV62	SV35HF	SV97MS	SV91
Fluxes, paste	SV51	SV35DA	—	—	SV35DA	SV35HF	—	—
Greases								
low pressure (to 100 psi, 0.69 MPa)	SV51	SV35DA	—	—	SV35DA	SV35HF	—	SV91
medium pressure (to 300 psi, 2.07 MPa)	SV51	SV46	—	—	SV46	SV46	—	SV91
high pressure (to 2500 psi, 17.2 MPa)	—	SV46	—	—	SV46	SV46	—	—
Inks	SV51	SV62	—	—	SV51	SV35HF	SV97MS	SV91
Oils	SV51	SV62	—	—	SV51	SV35HF	SV97MS	SV91
Optical dyes	SV12	SV12	—	—	SV12	—	—	—
Optical lacquers	SV12	SV12	—	—	SV12	—	—	—
Paints	SV51	SV62	—	—	SV51	SV35HF	SV97MS	SV91
Reagents	SV62	SV62	—	—	—	—	SV97MS	SV91
RTV/sealants								
low pressure (to 100 psi, 0.69 MPa)	SV51	SV35DA	SV35DA	SV35DA	SV35DA	SV35DA	—	—
medium pressure (to 300 psi, 2.07 MPa)	SV51	SV46	SV46	SV46	SV46	SV46	—	—
high pressure (to 2500 psi, 17.2 MPa)	—	SV46	SV46	SV46	SV46	SV46	—	—
Saline	—	SV62	—	—	SV62	SV62	—	—
Solder resists	—	SV35DA	—	—	SV35DA	SV35HF	—	—
Solvents	SV51	SV51	—	—	SV51	SV62	SV97MS	SV91
Solder pastes	—	—	—	—	—	—	—	—
UV-cure & light-cure	SV51	SV62	SV62	SV62	SV62	SV35HF	—	—
UV-cure with anaerobics	SV62	SV62	SV62	SV62	SV62	SV35HF	—	—
Water	SV51	SV62	—	—	SV51	SV62	SV97MS	SV91
White glue	—	SV35DA	—	—	SV35DA	SV35HF	—	—

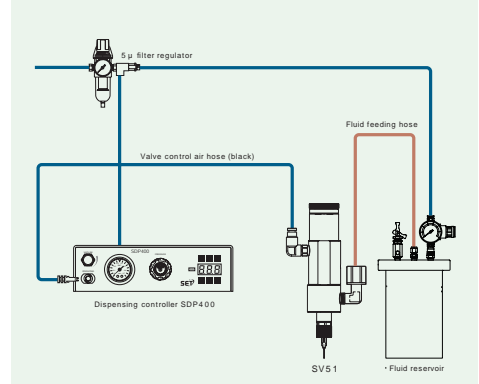
* This chart is only for reference. Compatibility with the actual fluid to be used requires individual testing.

Valve systems

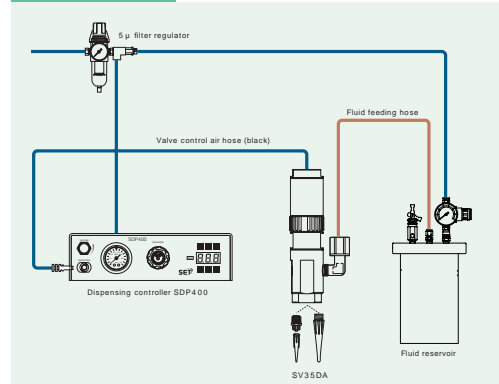
Diaphragm valve



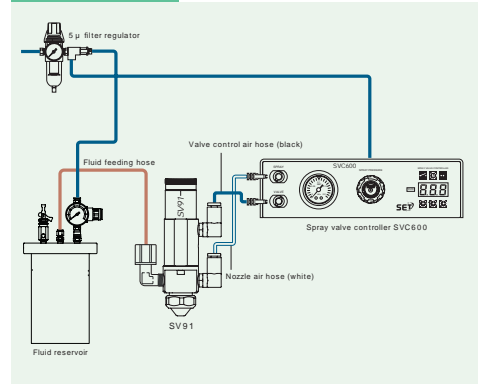
Needle valve



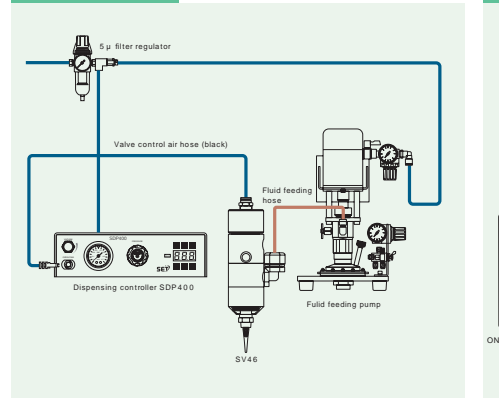
Piston valve



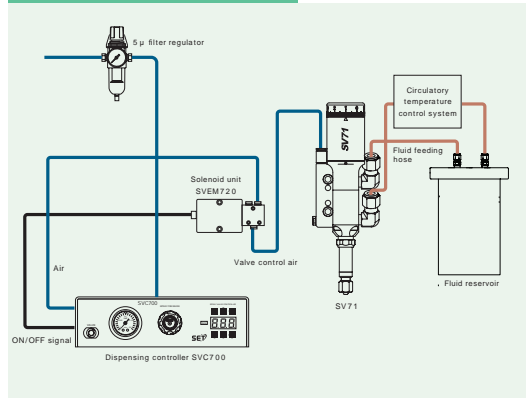
Spray valve



Spool valve



Conformal coating valve



Wide range of components available for specific application needs

S.E.T. dispensing components, precision molded and easy to use, for the most accurate dispensing results with high product quality.

Syringes

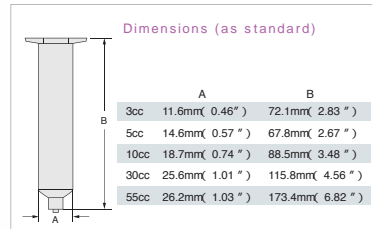
Precision fit between engineered 0° taper syringe and double-wiper piston ensures consistent fluid deposits.

Size	clear	UV-block	black	Pcs per box
3cc	SH09LL-B	SH09LB-B	SH09UV-B	50
5cc	SH10LL-B	SH10LB-B	SH10UV-B	40
10cc	SH11LL-B	SH11LB-B	SH11UV-B	30
30cc	SH12LL-B	SH12LB-B	SH12UV-B	20
55cc	SH13LL-B	SH13LB-B	-	15

material: polypropylene



Clear syringe for most fluids
220-500nm UV block for light sensitive fluids
Opaque black syringe for light curing fluids



Pistons

Low-friction PE piston prevents dripping and oozing.

Size	Pink (double wiper)	Yellow (flat wall)	Pcs per box
3cc	SH09PEP-B	SH09SPEY-B	50
5cc	SH10PEP-B	SH10SPEY-B	40
10cc	SH11PEP-B	SH11SPEY-B	30
30cc/55cc	SH12PEP-B	SH12SPEY-B	20

material: polyethylene



Syringe / Piston sets

Both syringes and pistons are packed as a set.

Size	Clear	UV-block	Black	Pcs per box
3cc	SH09CPP-B	SH09LBPP-B	SH09UPP-B	50
5cc	SH10CPP-B	SH10LBPP-B	SH10UPP-B	40
10cc	SH11CPP-B	SH11LBPP-B	SH11UPP-B	30
30cc	SH12CPP-B	SH12LBPP-B	SH12UPP-B	20
55cc	SH13CPP-B	SH13LBPP-B	-	15

Syringes and pistons (pink) are packed as a set.

Tip caps

Luer lock thread ensures safe, secure attachment and prevents leaks and slipping o .

Size	Part number	Pcs per box
one size	SH13G-B	50
	SH13TG-B	50

material: polypropylene



End caps

Unique snap-on design ensures easy, secure attachment.

Size	Part number	Pcs per box
3cc	SH09ECG-B	50
5cc	SH10ECG-B	40
10cc	SH11ECG-B	30
30cc/55cc	SH12ECG-B	20

material: polyethylene



Adapter assemblies

One-piece, molded adapter (polyacetal) with O-ring attached. Assembly includes polyurethane tubing, BUNA O-ring and quick connect.

Size	4.0mm (0.16) dia. tube 0.9m (35.43)	4.0mm (0.16) dia. tube 1.8m (70.87)	6.0mm (0.24) dia. tube 0.9m (35.43)	6.0mm (0.24) dia. tube 1.8m (70.87)	4.0mm (0.16) dia. tube for metal connector	6.0mm (0.24) dia. tube for metal connector	Pcs per box
3cc	1000BSH48	1000BSH48-6	1000DSH48	1000DSH48-6	1000BSH48-ST	1000DSH48-ST	1
5cc	1000BSH49	1000BSH49-6	1000DSH49	1000DSH49-6	1000BSH49-ST	1000DSH49-ST	1
10cc	1000BSH50	1000BSH50-6	1000DSH50	1000DSH50-6	1000BSH50-ST	1000DSH50-ST	1
30/55cc	1000BSH52	1000BSH52-6	1000DSH52	1000DSH52-6	1000BSH52-ST	1000DSH52-ST	1

Material: polyacetal (adapter), polyurethane (tubing), BUNA (O-ring)



O-ring for replacement (for adapters)

Standard BUNA O-ring is suitable for a wide range of fluids and applications. VITON or EPR O-ring may be selected for use with solvents or other reactive fluids.

Size	BUNA nitrile rubber	VITON fluorine-contained rubber	EPR ethylene-propylene rubber	Pcs per box
3cc	SH48R-B	SH48RV-B	SH48RE-B	10
5cc	SH49R-B	SH49RV-B	SH49RE-B	10
10cc	SH50R-B	SH50RV-B	SH50RE-B	10
30cc/55cc	SH52R-B	SH52RV-B	SH52RE-B	10



Lab Kit SH100-SK



*Please indicate the part number as "SH100" if you would like to purchase only the Nozzle Kit.

Lab Kit SH100-SK offers an assortment of dispensing components specifically for new users of dispensers or those who require the most suitable dispenser according to a particular application. The Nozzle Kit includes nozzle sizes ranging from 14G for general purpose to 30G for minute amounts of dispensing.

Contents

- Nozzle Kit ... 1 set
- 3cc/5cc/10cc/30cc/55cc syringe (clear · UV block) ...4 for each
- 3cc/5cc/10cc piston ...8 for each
- 30cc&55cc piston... 16 for each
- 3cc/5cc/10cc/30cc&55cc syringe adapter...one for each

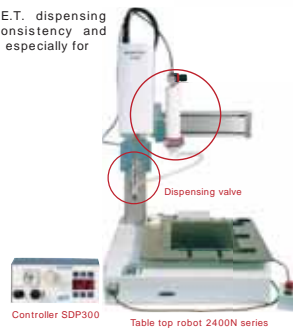
Quick installation and easy dispensing of materials pre-packed in tubes or cartridges

The AUTOTUBE system is specifically designed to dispense various tubes or cartridge type materials without refilling into other containers by use of a special reservoir with air pressure.

- No refilling, no contamination or bubbles
- Air pressured mechanism greatly reduces operator workload
- Combination with dispensing valves (ATD300CV-S AUTOTUBE set with dispensing valve)
- Enhances accuracy and consistency

ATD300CV-S AUTOTUBE set with dispensing valve

Combination with the S.E.T. dispensing valves provides better consistency and accuracy in fluid dispensing especially for automation processes.



Dispensing valve

Table top robot 2400N series



AUTOTUBE standard set

- for 100g tube material: ATD100C-S
- for 200g tube material: ATD200C-S
- for 330g cartridge material: ATD300CB-S



	ATD100C-S (standard)	ATD200C-S (standard)	ATD300CB-S (standard)	ATD300CPB-S (standard)

Dispensing controller	SDP300			
AC adapter	SD314			
Foot pedal switch	FTSW001 (2.4m cord)			
Consumable parts	Taper tip (5 types for each size x 10) Retaining cap (10) Big taper tip : 880012A(2) ¹			
Reservoir set	Inner reservoir (100g) : 5192C-ST Outer reservoir (100g) : SH92R-ST Retaining cap : SH95R-ST Air line : SAR59	Inner reservoir (200g) : 560517A Outer reservoir (200g) : 560520 Retaining cap : SAR65R Air line : SAR59	Outer reservoir (330g) : 580091 (including Retaining cap and Air line)	Air gun for cartridge : 580112A Air line : SAR59 Power code : 580116
Tip adapter	7514-2 Tip adapter for big taper tip : 7514-2PA 2			
Adapter ³	880001A · 880001B (for each size x 2)		880003A · 880003B	

Both 1 and 2 are only included in ATD300CB, ATD300CPB-S. Please contact us about different thread sizes for tube materials and adaptors from fluid material manufacturers.

Unique rotary mechanism applies a minute amount of low viscosity instantaneous material

The SRD150 features fewer air bubbles generated in the feeding tube, extending the life of a tube. Various materials such as instantaneous adhesive, thread-locking fluid, anaerobic adhesive, solvents and medical agents can be consistently dispensed with either Teflon® or a Silicon tube.



- Reduces stress on feeding tubes extending tube life
- Less noise and vibration
- Less heat transfer to the rotary mechanical part (Fluid is unaffected by heat)
- Digital timer installed as standard
- Light and small foot print
- 100AC-240V adapter for universal application
- Using RoHs accepted parts

Teflon® tubing chart

Size	material: PTFE / length: 10m (394)		
	IDmm	ODmm	Thickness mm
AWG-11-1.0	2.41(.095)	3.01(.119)	0.30(.012)
AWG-13-1.0	1.93(.076)	2.53(.100)	0.30(.012)
AWG-16-1.0	1.35(.053)	1.95(.077)	0.30(.012)
AWG-19-1.0	0.96(.038)	1.56(.061)	0.30(.012)
AWG-24-1.0	0.56(.022)	1.06(.042)	0.25(.009)
AWG-26-1.0	0.46(.018)	0.92(.036)	0.23(.009)
AWG-28-1.0	0.38(.015)	0.84(.033)	0.23(.009)

¹The above specifications may change lot by lot.
²AWG-19 is used as a standard. Please contact us if you use other than AWG-19.

Silicon tubing chart

Size	length: 10m (394)		
	IDmm	ODmm	Thickness mm
silicon S3*5-1.0	3.0(.12)	5.0(.20)	1.0(.04)
silicon S2*4-1.0	2.0(.08)	4.0(.16)	1.0(.04)
silicon S1*3-1.0	1.0(.04)	3.0(.12)	1.0(.04)

Please contact us if you use a size different from above.

Tubing specification

Teflon®	suited for cyanoacrylate or anaerobic adhesive
Silicon	more fluid flow can be obtained than Teflon® tube

Please use the tube best suited for your individual application.
*Teflon® is a registered trademark of DuPont.

Specification

Power supply	12VDC (100AC-240V adapter included)		
Power consumption	Approximately 7W		
Outer dimensions	W78(108)×D130(166.5)×H129mm () including protruding portion W3.07 (4.25)×D5.12 (6.56)×H5.08		
Weight	Approximately 1.8kg		
Rotating speed (maximum)	120 RPM is adjustable with dial		
Dispensing timer	0.1-9.9sec		
Applicable viscosity ¹	Teflon® tube 1-2,000mPa · s Silicon tube 1-5,000mPa · s		
Dispensed volume (with purified water) ²	Teflon® AWG-13-1.0 1.5g/min Teflon® AWG-19-1.0 ³ 0.9g/min	2.8g/min 1.5g/min 0.9g/min	S3*5-1.0 Silicon tube 19.5g/min S2*4-1.0 Silicon tube 12.5g/min S1*3-1.0 Silicon tube 4.6g/min
Option	<ul style="list-style-type: none"> • Pen type dispenser with finger switch : SRD-P-0019(standard) • Foot switch : SRD-FS • Teflon® tubes (10m per each) • Silicon tubes (10m per each) 		

¹ Figures are noted for reference. Please note that it may not be used depending on the property or the conditions of the fluid.
² Figures are the reference value at the time when the deposits become consistent after setting rotation speed at 120RPM with a new tube attached . Please note that the deposit volume may change depending on the conditions such as ambient temperature, water temperature, and length of the tubing.
³ AWG-19 is generally used for the unit unless there are particular instructions.

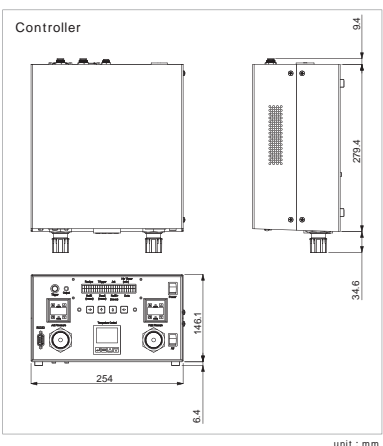
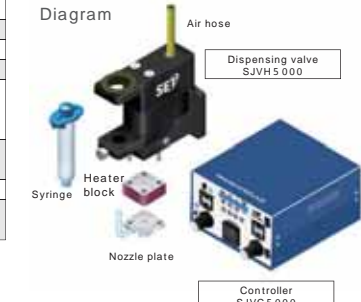
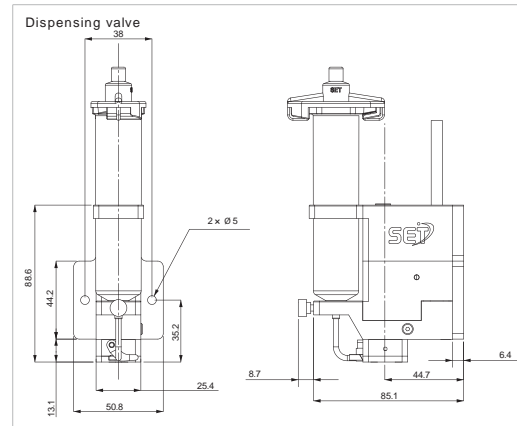
Ultra high-speed, consistent minute amount dispensing increases yields and production efficiency

HYPERDOT provides non-contact, high-speed jetting at a rate up to 300 drops/sec and exceptional volumetric control for various fluids ranging from middle to high viscosity.

Specifications

Size	Jet valve (without mounting bracket)	Jet controller
Width	25.4 mm	254.0 mm
Height	90.3 mm	152.5 mm
Depth	82.0 mm	341.4 mm
Weight	348 g	3200 g
Nozzle size	125 µm 150 µm 200 µm	
Speed	Up to 300Hz, dependent on material	
Viscosity range	1-400K mPa.s (400Kcps)	
Fluid syringes	5, 10, 30, 55 cc	
Air pressure	• Jet : 0.24 MPa (35 psi) Min 0.62 MPa (90 psi) - Max • Fluid : 0.27 MPa (40 psi) Max • Source : 0.69 MPa (100 psi) - Max	
Clean, dry air required 40µm filter required		
Nozzle heater	Heating up to 70 Max	
Operating temperature	Up to 50	
Power	100/220 VAC, 50/60Hz	
Input consumption current	• 0.9A/100VAC • 0.8A/115VAC • 0.55A/230VAC	
Controller interface	• LCD Display with keypad • RS-232 Serial Port	
Input/Output	26 pin DB connector, digital inputs pulled to GND	
Software	Windows XP, Vista and Windows 7 Fluid tables with programmable drop recipes	

Dimensions



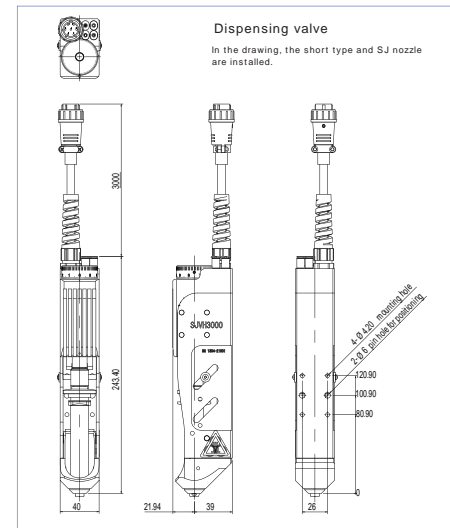
Consistent minute amount dispensing provides high speed delivery

NOVADOT is a magnetically-actuated non-contact dispenser providing high-speed delivery and exceptional volumetric control for various fluids. High output of the controller combined with the high rigid dispensing head substantially enhances the dispensing capability.

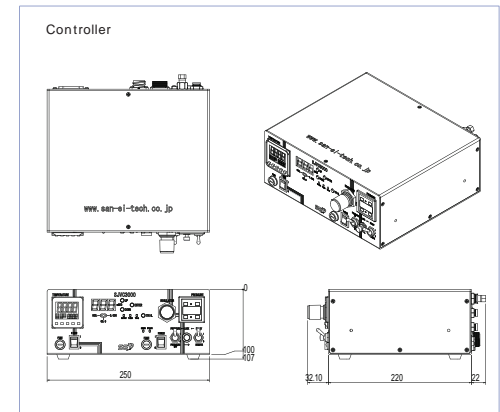
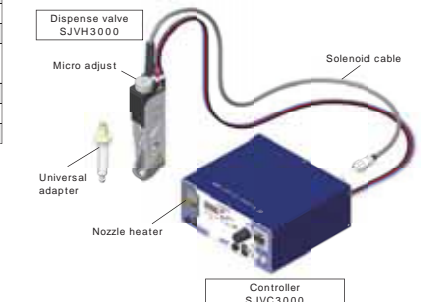
Specifications

Size	Jet valve (without mounting bracket)	Jet controller
Width	40.0 mm	250.0 mm
Height	244.0 mm	107.0 mm
Depth	61.0 mm	220.0 mm
Weight	720g	5700g
Nozzle size	0.11 mm ~ 0.91 mm	
Speed	Up to 100Hz (300Hz with an optional special engine)	
Viscosity range	1-50Pa.s (50kcps)	
Fluid syringes	5, 10, 30cc (55cc option)	
Air pressure	• Jet : Non-use (electromagnetically actuated) • Fluid : 0.6MPa- Max • Source : 0.6MPa- Max	
Nozzle heater	Heating up to 100 Max	
Operating temperature	Up to 50	
Power	100VAC, 50/60Hz	
Input consumption current	3A/100VAC	
Controller interface	Open collector	
Input/Output	D-SUB 15PIN external timer control	
Software	-	

Dimensions



Diagram



Enhanced Robot lineups maximize production efficiency



The Desktop Robot 2000N series allows users to establish highly accurate and repeatable dispensing processes with precise positioning function.

- Smooth movement attained with the micro-step control system
- Special labyrinth mechanism under worktable keeps foreign objects out
- Broad interface enhances flexibility

Enhanced lineup with an operation range between 200mm x 200mm and 510mm x 510mm

2200N mini Series

Low-cost cell production



2300N Series

With an operation range of 300 x 320 mm



2400N Series / 2500N Series

The wide operation range of 400 x 400mm allows large workpieces to be easily moved

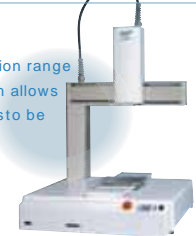


Image of the 2400N series.

Specifications

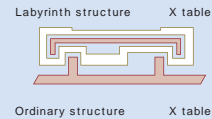
Item	Model ¹	3-Axis type (synchronous control)				4-Axis type (synchronous control)			
		2203N	2303N	2403N	2503N	2204N	2304N	2404N	2504N
Operation range	X-and Y-Axes	200mm×200mm	300mm×320mm	400mm×400mm	510mm×510mm	200mm×200mm	300mm×320mm	400mm×400mm	510mm×510mm
		50mm	100mm	150mm	150mm	50mm	100mm	150mm	150mm
Portable weight ²		7kg	11kg	11kg	11kg	7kg	11kg	11kg	11kg
		3.5kg	6kg	6kg	6kg	3.5kg	6kg	6kg	6kg
Maximum speed (PTP) ³	X-and Y-Axes	7 ~ 700mm/sec	8 ~ 800mm/sec	8 ~ 800mm/sec	8 ~ 800mm/sec	7 ~ 700mm/sec	8 ~ 800mm/sec	8 ~ 800mm/sec	8 ~ 800mm/sec
		2.5 ~ 250mm/sec	3.2 ~ 320mm/sec	3.2 ~ 320mm/sec	3.2 ~ 320mm/sec	2.5 ~ 250mm/sec	3.2 ~ 320mm/sec	3.2 ~ 320mm/sec	3.2 ~ 320mm/sec
Maximum speed (CP) ³	XYZ combined speed	0.1 ~ 500mm/sec	0.1 ~ 800mm/sec	0.1 ~ 800mm/sec	0.1 ~ 800mm/sec	0.1 ~ 500mm/sec	0.1 ~ 800mm/sec	0.1 ~ 800mm/sec	0.1 ~ 800mm/sec
	Acceptable moment of inertia	—	—	—	—	65kg·m ²	90kg·m ²	90kg·m ²	90kg·m ²
Resolution	X-and Y-Axes	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm
	Z-Axis	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm	0.0025mm
	R-Axis	—	—	—	—	0.009°	0.009°	0.009°	0.009°
Repeatability ⁴	X-and Y-Axes	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	Z-Axis	±0.006mm	±0.007mm	±0.007mm	±0.008mm	±0.01mm	±0.01mm	±0.01mm	±0.01mm
	R-Axis	—	—	—	—	±0.004°	±0.004°	±0.004°	±0.004°
Dimensions (WxDxH)		320×380×540 (mm)	560×530×650 (mm)	590×630×800 (mm)	680×730×800 (mm)	320×380×540 (mm)	560×530×650 (mm)	590×630×800 (mm)	680×730×800 (mm)
Body weight		18kg	35kg	42kg	43kg	18kg	35kg	42kg	43kg
Power source		90AC ~ 132V / 180AC ~ 250V (single-phase)							
Power consumption		200VA							
Teaching system		JANOME original software JR C-Points: A simple and broad-use teaching system •Simple: Easy teaching just by registering positions and parameters. •Broad-use: User-oriented programming such as I/O control etc. by point job teaching.							
Teaching pattern		•Direct teaching using a teaching pendant (optional) •O -line teaching using JR C-Points (PC software) via a PC (optional)							
Program capacity		255 programs							
Data capacity ⁵		Maximum 30,000 points							
External interface		RS232C 1c(for a PC; COM1) RS232C 2c(for external devices; COM2, COM3) (optional) RS422C 1c(for a teaching pendant)							

¹ A 2-axis type is also available. (Please contact us for specifications.)
² Maximum portable weight (tool/workpiece): JR2202N(6.5kg/7.0kg), JR2302N/JR2402N/JR2502N(10kg/11kg)
³ Maximum speed may vary depending on conditions. Maximum speed cannot be achieved under the maximum portable weight setting.
⁴ Repeatability was measured at a constant temperature, so absolute precision is not guaranteed.
⁵ The point date capacity will be reduced if the additional function date setting/point job date/sequencer date increases, due to the shared data storage area.
 •Models with CE specifications are also available.

Smooth movement
Smooth movement is attained with the micro-step control system.

Robust structure
Solid aluminum alloy die cast is employed at the base and aluminum alloy extrusion with a high rigid section is employed on the column.

Labyrinth mechanism
Special labyrinth mechanism under the worktable keeps foreign objects (e.g. screws, liquid and dust) out.



Easy programming for individual applications

By only entering work positions, a dispensing program can be completed. You can set a dispense time for each "Point Dispense" point and change dispense conditions such as "Wait Time" (from dispense ON to start shifting) simply by setting and registering. You can also easily correct a work position by palletizing or adjusting the camera.



Point Type Setting Screen

Simple sequencer

The robot has a built-in simple sequencer which functions independently (it is not necessary to add more hardware in the case of simple PLC connection).

Simple teaching

The JR C-Points software (option) allows users to teach data easily and create their own original software simply by filling parameters.



Flexible interface
RS-232C port for PC connection and RS-422 port for teaching pendant are installed as a standard. I/O connection allows external control.

Operation box (option)
Operation box functions as a start switch and an emergency stop switch.

Teaching pendant (option)



Even, consistent coverage dramatically increases yields



The LUBEMATE system applies lubricant coating with a fine, even film of fluid without overspray, splashing or mist assuring complete coverage while substantially reducing fluid use.

- Increases accuracy especially for a range of very minute amounts of coating
- Drastically reduces lubricant consumption
- Nozzle air mounted above and below the stock can be controlled independently
- Low-maintenance valves extend tool life much longer
- Easily retrofit an existing machine

Applications

- Precise stamping parts (lead frames, connector pin, motor core)
- Can end pull tabs
- Battery parts
- Heat exchanger
- Cooling fin forming
- Tube forming
- Fine blanking
- Non-woven fabric
- Fabric coating



LUBEMATE applies a variety of fluid coating

Product specification Spray LM87

Size	65.8mm(H) × 46.2mm(W)
Weight	263g
Fluid body	SUS303
Needle, Nozzle	SUS303
Air cap	SUS303
Diaphragm	PTFE, FKM
Fluid inlet	1/8NPT female
Mounting hall	M6 Tap hall

Controller LMC380

Size	143.0mm(W) × 220.2mm(D) × 269.0mm(H)
Weight	5.9kg (with 8 valves)
Air pressure	0.4 - 0.6MPa
Reservoir pressure	0.1 - 0.3MPa
Nozzle pressure	0 - 0.2MPa

Controller LMC380

LUBEMATE System Controller allows fluid coating in a fine, even film without overspray or mist. Once optimal coverage is established, it remains consistent for the entire run, without further adjustment.

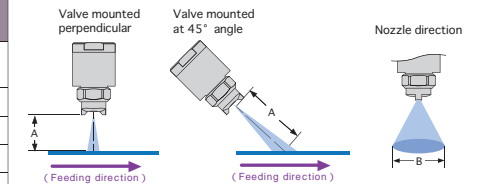
Expands the modular system for wide stock.



(6CH Type)

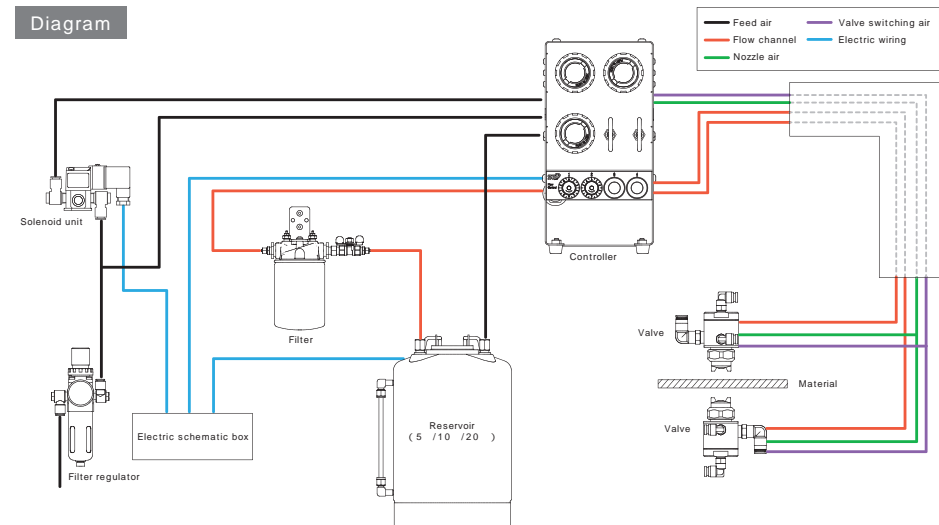
Spray Area Coverage

Spray valve	LM87	LM87-WF (Wide-fan type)
A Nozzle distance	B Spray diameter	
25	25	38
50	38	63
76	50	82
152	82	165



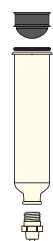
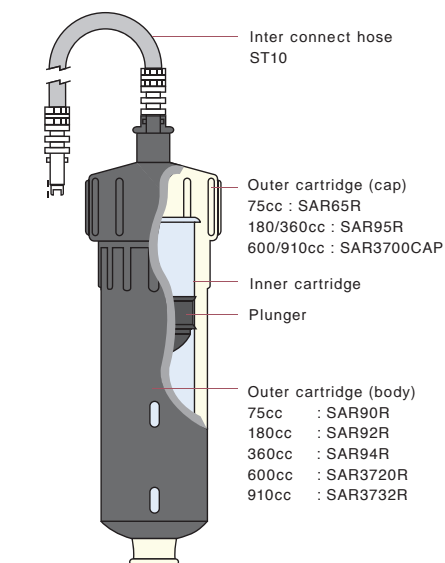
unit : mm

Diagram



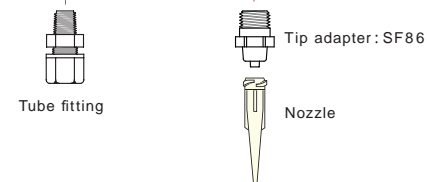
Smooth dot dispensing and beading combined with SDP controllers

Cartridge systems are ideal for fluid applications that are likely to require more than 55cc reservoirs. Five sizes, 75cc, 180cc, 360cc, 600cc and 910cc are available. Each system can be used with SDP series dispensers ensuring consistent dot or line dispensing. The outer cartridge can withstand up to 0.69MPa. The SV series valves are recommended for use if the dispensing volume exceeds the capacity of the cartridge.



Cartridge parts

Part name	Part number	Minimum number sold
75cc (2.5oz) Cartridge (translucent)	5190C	10
180cc (6oz) Cartridge (translucent)	5192C	10
360cc (12oz) Cartridge (translucent)	5194C	10
Cartridge plunger (black)	5196	10
Cartridge plunger wiping type (translucent)	5196WP-LD	10
Cartridge plunger skirt type (translucent)	5196PRS	10
600cc (20oz) Inner cartridge	3704	10
910cc (32oz) Inner cartridge	3705	10
Plunger (600/910cc)	3709	10
Tip cap thread type	5192RT	10
End cap (75 ~ 360cc)	A605	10
End cap (600/910cc)	3703	10
Outer cartridge cap gasket (for 75-360cc)	SAR95G	1
Tip adapter	SF86	1
Syringe adapter for refilling	SF60	10



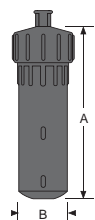
Retainer dimensions

Cartridge	A	B
75cc	94mm	46mm
180cc	178mm	49mm
360cc	308mm	49mm
600cc	264mm	71.3mm
910cc	362mm	72.3mm

Cartridge nozzle

Compatible with every cartridge

Part name	Length x diameter at the end of the tip	Unit/pack
SN80	63.5mm×φ3.2mm	10
SN81	63.5mm×φ1.6mm	10
SN82	101.6mm×φ1.6mm	10
SN83	101.6mm×φ0.8mm	10



Steady fluid pressure maintains consistent feeding for various adhesives, oils, greases, solvents, etc.



Top-port type (standard)

Standard tanks, made of stainless-steel, are types in which up to a five liter bottle or a cartridge material is placed inside and pressurized to feed the fluid out of the upper port. The material can be easily replaced and the time for cleaning can be drastically reduced as the material is never wetted from the inner wall of the tank.



Bottom-port type

This type is also made of stainless-steel and up to a ten liter bottle can be placed inside and the material is pressurized to feed out of the bottom port. Bu ng treatment for inner and outer surfaces and mirror finishing treatment for the inner bottom of the tank contribute little residue, which results in superior sanitation.

Tank specification

	Part number	Volume	Weight
Standard type	FTT-020	2L	4.0kg
	FTT-030	3L	5.5kg
	FTT-050	5L	7.0kg
	FTT-100	10L	17.0kg
Bottom-port type	FTB-030	3L	5.0kg
	FTB-050	5L	6.5kg
	FTB-100	10L	11.0kg

Optional parts

Regulator	0.7MPa maximum, 0.2MPa maximum
Relief valve	brass or stainless-steel
Fluid feeding pipe	pierced fitting for fluid feeding or suction pipe made of SUS
O-ring	NBR VITON, EPDM, Teflon®

Other configurations can be customized. Level gauge, level sensor, stirring system, inner-polishing, etc. can be added. Specialized larger or smaller tanks, and tanks for syringe filling can be manufactured.