



**Dispensing
Product
Catalog**

SDP Series Dispensers

Whether you apply adhesives, lubricants or any other type of fluid, SDP series dispensers can provide absolutely consistent deposits. Vacuum control and TEACH function as standard features let the operator establish a reliable dispensing process leading to high-yield and high-speed production and reducing manufacturing costs.

SDP300

Compact design allowing small foot print



- Volume can be adjusted by TEACH function
- Highly controlled by Timer, Steady and Teaching modes
- Vacuum function prevents dripping
- Ultra-lightweight and easy-to use design

SDP400

Stabilized by the internal air pressure reservoir



- 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

SDP500

Versatility using all-digital display



- 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

SVC600

Consistent, precise spray control

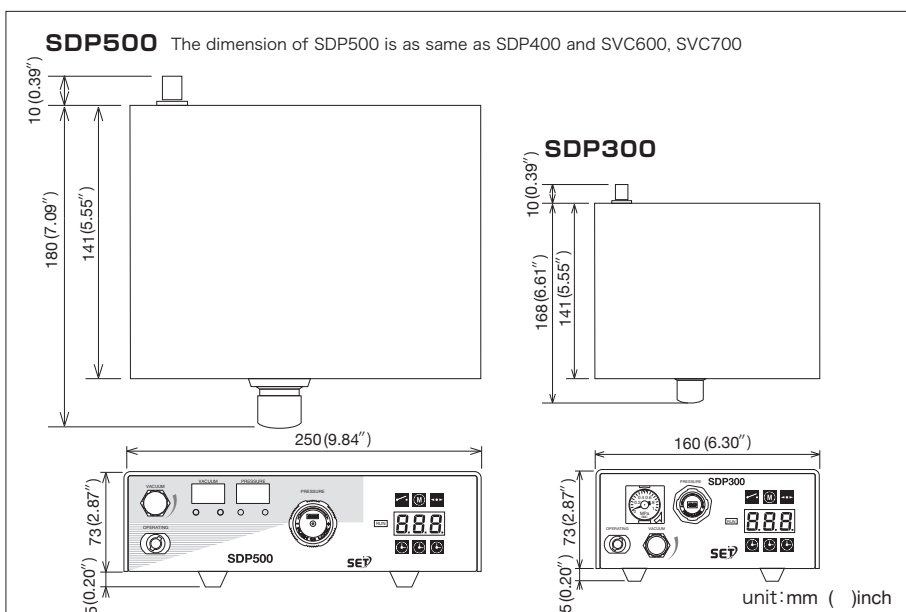


- Stackable squared design
- Nozzle air delay function makes positive shut off
- Spray volume can be adjusted by TEACH function

Specifications

	SDP300	SDP400	SDP400-30	SDP500	SVC600	SVC700
Power supply	24VDC (100AC~240VAC adapter included)					
Power consumption	Approximately 20W					
Dispensing pressure setting range	0.7Mpa max				0.4MPa - 0.6MPa max	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 (for low pressure)		0-0.6MPa	Valve operating pressure 0.4MPa~0.6MPa max (depending on the air supplied) Nozzle air pressure setting range 0~0.2MPa (0~0.6MPa) *1	0~0.7MPa
Dispensing time setting range	0.005 ~ 99.9sec					
Cycle Initiate	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°C to 45°C (non-condensing)					
External dimensions	W160×D141(178) ×H73(78)mm		W250×D141(190)×H73(78)mm			
Weight (Approximately)	1.2kg	1.9kg			1.8kg	1.9kg
Attachment	AC adaptor, foot pedal switch					
Options*2	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

Dimension



*1 SVC600H is capable of providing 0.6Mpa Max nozzle air pressure.
*2 Please contact us for detail.



Precision Valve systems that are durable and reliable with low maintenance

SV Series Valves

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

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 size and placement

Spray valve controller SVC600



SVC600 provides low volume low pressure fine spray coating driven by a solenoid and nozzle pressure at the range from 0 to 0.2Mpa. SVC600H is capable of supplying up to 0.6Mpa.

Conformal coating valve

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

Conformal coating valve controller SVC700



SVC700 ensures easy control for conformal coating. Fast response pneumatic solenoid adjoined to SV71 maximizes the coating performance

Diaphragm valve

Accurate and speedy shut-off movement provides no drips



SV62

- Compact size and weight allowing 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 light weight

SV12

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



Piston Valves

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



SV35DA

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



SV35HF

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

Needle valves

For consistent microdot application for UV material, solvent or oil



SV51

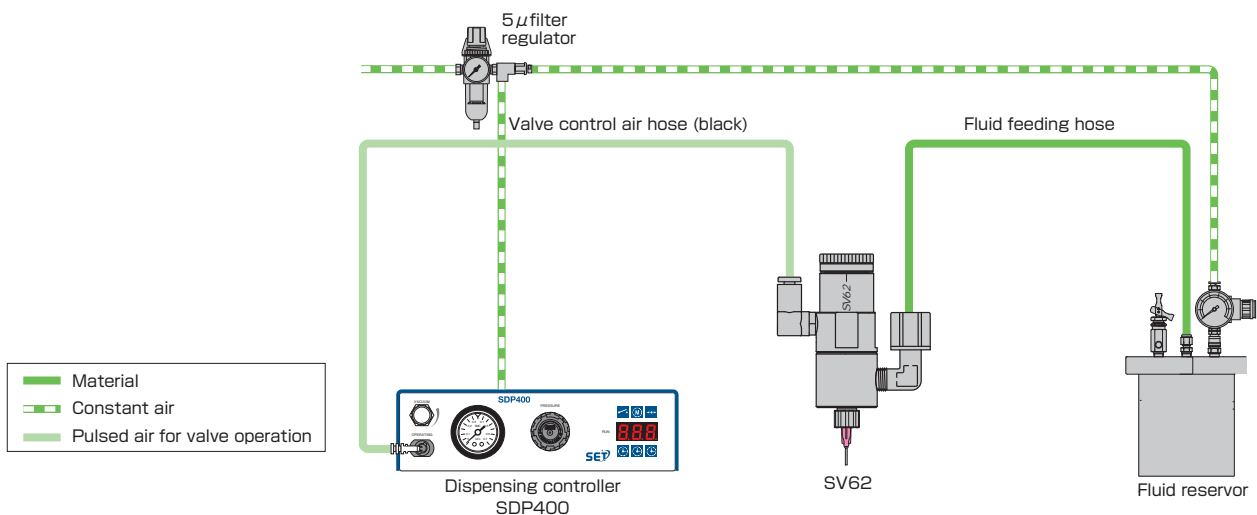
- Adjustable fluid flow control
- Unaffected by entrapped air in fluids
- Drip-free shut off







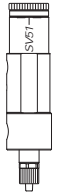
SV51MD

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




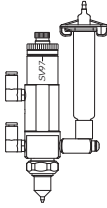

Installation



Valve specification

Application	for low viscosity fluids			for low-to-mid viscosity fluids	
	SV62	SV62-D	SV12	SV51	SV51MD
Model					
Valve type	Diaphragm type			Needle 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)
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 a higher fluid flow rate	Small, light weight structure is ideal for fitting to where space is tight	Very versatile. Unique packing structure greatly improves durability	With a SET GP needle tip ranging from 22 to 33 gage, highly repeatable small amount of dispensing can be achieved without dripping
Stroke adjustment	Yes	Yes	Yes	Yes	Yes
Weight and size	154g φ26.9×79.0mm	212g φ26.9×77.7mm	85g φ18.9×63.2mm	312g φ26.9×113.0mm	320g φ26.9×130.0mm
Connections	Inlet : 1/8NPT Outlet : 1/4-28UNF*1 Mounting hole : M5×0.8	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M5×0.8	Inlet : M5 Outlet : 1/8NP*1 Mounting hole : M5×0.8	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M6×1	Inlet : 1/8NPT Outlet : Luer lock*1 Mounting hole : M6×1
Wetted parts	UHMW	UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel
Maximum fluid pressure	0.48Mpa	0.48Mpa	0.48Mpa	0.7Mpa	0.7Mpa

*1 Luerlock-type nut is an option

for mid-to-high viscosity fluids		for spray coating		for conformal coating
SV35DA	SV35HF	SV91	SV97MS	SV71
				
Piston valve type		Needle type		
Sealants, Epoxies, UV-cure, Greases	(A SV35 series valve designed for higher flow rate)	Inks, Lubricants, Fluxes, Solvents	(A SV91 series valve designed for smaller amount dispensing)	Moisture-proof material
Snuff-back function ensures positive shutoff the fluid even with a mid to high viscous material like sealants	Larger fluid channel enables high amount of fluid flow.	Specifically designed for spray coating process. Special nozzles and caps are selectable depending on the requirements	With a SET GP needle tip ranging from 23 to 33 gage, highly repeatable small amount of dispensing can be achieved without dripping	Specifically designed for the conformal coating process. Effective square-cut nozzle ensures high quality of conformal coating.
Yes	No	Yes	Yes	Yes
379g φ28.5×141.0mm	333g φ31.1×100.0mm	294g φ26.9×105mm	308g φ26.9×130.0mm	460g φ35.0×176.5mm
Inlet : 1/8NPT Outlet : 1/4NPT*1 Mounting hole : M8×1.25	Inlet : 1/4NPT Outlet : 1/4NPT*1 Mounting hole : M8×1.25	Inlet : 1/8NPT (special nozzles caps) Mounting hole : M6×1	Inlet : 1/8NPT (SET standard tip cap) Mounting hole : M6×1	Inlet : 1/8NPT (circulation type) (special nozzle) Mounting hole : 2-φ5.5
UHMW 303 stainless steel	UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Teflon or UHMW 303 stainless steel	Aluminium 303 stainless steel
0.7Mpa	0.7Mpa	0.7Mpa	0.7Mpa	5.0Mpa

All wetted parts of stainless-steel valves are passivated.

Wide range of components available for specific application needs

Dispensing Components by S.E.T.

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

Syringes

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

Size	clear①	UV-block②	black③	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



Dimension (as standard)

	A	B
3cc	11.6mm (0.46")	72.1mm (2.83")
5cc	14.6mm (0.57")	67.8mm (2.67")
10cc	18.7mm (0.74")	88.5mm (3.48")
30cc	25.6mm (1.01")	115.8mm (4.56")
55cc	26.2mm (1.03")	173.4mm (6.82")

- ① Clear syringe for most fluids
- ② 220-500nm UV block for light sensitive fluids
- ③ Opaque black syringe for light curing fluids

Pistons

Low-friction PE piston prevents drip or ooze.

Size	pink① (double wiper)	yellow② (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 cap

Luer lock thread ensures safe, positive attachment keeping from leaking or slipping off.

Size	part number	pcs per box
one size	SH13G-B	50

material: polypropylene



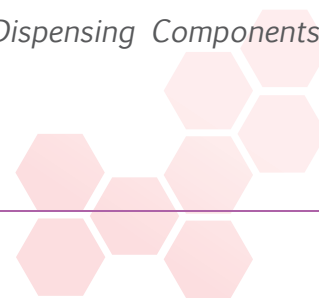
End caps

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	①4.0mm(0.16") dia. tube 0.9m(35.43')	①4.0mm(0.16") dia. tube 1.8m(70.87')	②6.0mm(0.24") dia. tube 0.9m(35.43')	②6.0mm(0.24") dia. tube 1.8m(70.87')	③4.0mm(0.16") dia. tube for metal connector	④6.0mm(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



Lab Kit SH100-SK is the assorted dispensing components specifically aimed for an entry-level user who is beginning to use a dispenser or those who would like to find the component most suited to their application.

It includes *Nozzle Kit in which each nozzle with the size ranging from 14G for general purpose to 30G for small amount dispensing is widely assorted.

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

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

GP needle tips

A wide variety of needle lengths and orifice sizes can be selected for general application. Burr-free, polished tip provides consistent fluid flow.

General purpose



gauge	ID size (mm)	OD size (mm)	needle length				hub color	pcs per box
			6.4mm (0.25")	12.7mm (0.5")	25.4mm (1")	38.1mm (1.5")		
14	1.55 (.061")	1.83 (.072")	SH14-0.25-B	SH14-B	SH14-1-B	SH14-1.5-B	olive	50
15	1.37 (.054")	1.65 (.065")	SH15-0.25-B	SH15-B	SH15-1-B	SH15-1.5-B	amber	50
18	0.91 (.036")	1.27 (.050")	SH18-0.25-B	SH18-B	SH18-1-B	SH18-1.5-B	green	50
20	0.61 (.024")	0.91 (.036")	SH20-0.25-B	SH20-B	SH20-1-B	SH20-1.5-B	pink	50
21	0.51 (.020")	0.81 (.032")	SH21-0.25-B	SH21-B	SH21-1-B	SH21-1.5-B	purple	50
22	0.41 (.016")	0.71 (.028")	SH22-0.25-B	SH22-B	SH22-1-B	SH22-1.5-B	blue	50
23	0.33 (.013")	0.64 (.025")	SH23-0.25-B	SH23-B	SH23-1-B	SH23-1.5-B	orange	50
25	0.25 (.010")	0.51 (.020")	SH25-0.25-B	SH25-B	SH25-1-B	SH25-1.5-B	red	50
27	0.21 (.008")	0.41 (.016")	SH27-0.25-B	SH27-B	—	—	clear	50
30	0.16 (.006")	0.31 (.012")	SH30-0.25-B	SH30-B	—	—	lavender	50
32	0.11 (.004")	0.23 (.009")	SH32-0.25-B	—	—	—	yellow	25

hub : polypropylene
shaft : 304 stainless steel

TT taper tips

TT taper tip provides smooth fluid flow avoiding air entrapment. GEL cyanoacrylate adhesive can also be applied.

General purpose



gauge	ID size (mm)	Material		color	pcs per box
		standard	opaque rigid		
14	1.55 (.061")	SH14TT-B	SH14RTT-B	olive	50
16	1.19 (.047")	SH16TT-B	SH16RTT-B	gray	50
18	0.84 (.033")	SH18TT-B	SH18RTT-B	green	50
20	0.61 (.024")	SH20TT-B	SH20RTT-B	pink	50
22	0.41 (.016")	SH22TT-B	SH22RTT-B	blue	50
25	0.25 (.010")	SH25TT-B	SH25RTT-B	red	50

standard : polyethylene
opaque rigid : polypropylene

Angle tips

Angle shaft allows you to reach underneath or inside the work. Available with 45° and 90° bends and 10 different tip diameters ranging from 30-14 gauge.

General purpose



gauge	ID size (mm)	OD size (mm)	needle length		hub color	pcs per box
			12.7mm/45° (0.5")	12.7mm/90° (0.5")		
14	1.55 (.061")	1.83 (.072")	SH14-B-45	SH14-B-90	olive	50
15	1.37 (.054")	1.65 (.065")	SH15-B-45	SH15-B-90	amber	50
18	0.91 (.036")	1.27 (.050")	SH18-B-45	SH18-B-90	green	50
20	0.61 (.024")	0.91 (.036")	SH20-B-45	SH20-B-90	pink	50
21	0.51 (.020")	0.81 (.032")	SH21-B-45	SH21-B-90	purple	50
22	0.41 (.016")	0.71 (.028")	SH22-B-45	SH22-B-90	blue	50
23	0.33 (.013")	0.64 (.025")	SH23-B-45	SH23-B-90	orange	50
25	0.25 (.010")	0.51 (.020")	SH25-B-45	SH25-B-90	red	50
27	0.21 (.008")	0.41 (.016")	SH27-B-45	SH27-B-90	clear	50
30	0.16 (.006")	0.31 (.012")	SH30-B-45	SH30-B-90	lavender	50

hub : polypropylene
shaft : 304 stainless steel

PP flexible tips

Polypropylene shaft reaches into hard-to-access areas and will not scratch delicate surfaces.

General purpose



gauge	ID size (mm)	OD size (mm)	needle length		hub color	pcs per box
			12.7mm (0.5")	38.1mm (1.5")		
15	1.35 (.053")	1.65 (.065")	SH15PPS-B	SH15PP-B	amber	50
18	0.80 (.032")	1.21 (.048")	SH18PPS-B	SH18PP-B	green	50
20	0.47 (.019")	0.85 (.033")	SH20PPS-B	SH20PP-B	pink	50
25	0.40 (.016")	0.80 (.032")	SH25PPS-B	SH25PP-B	red	50

hub : polypropylene
shaft : polypropylene



Flexible shaft will not scratch delicate surfaces.

Chamfered tips

Precision, wedge-shaped tip minimizes the wetted area as small as possible and smaller sizes are useful when making microdots of low-viscosity fluids.

Small area



gauge	tip ID size (mm)	OD size (mm)	needle length				hub color	pcs per box
			6.4mm (0.25")	7.0mm (0.28")	9.5mm (0.37")	12.7mm (0.5")		
23	0.34 (.013")	0.64 (.025")	—	—	—	SH23CH-B	orange	50
25	0.26 (.010")	0.51 (.020")	—	—	—	SH25CH-B	red	50
27	0.21 (.008")	0.41 (.016")	SH27CH-0.25-B	—	—	—	clear	25
30	0.17 (.007")	0.51 (.020")	—	—	SH30CH-B	—	red	25
33	0.11 (.004")	0.41 (.016")	—	SH33CH-B	—	—	clear	25

hub : polypropylene
shaft : 304 stainless steel





Tip image

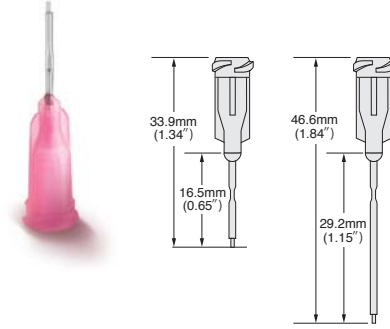
TLC Teflon-lined tips

Teflon line resists clogging of cyanocrylates.

Specialty

gauge	Tip teflon OD size (mm)	Tip teflon ID size (mm)	needle OD size (mm)	needle length		hub color	pcs per box
				16.5mm	29.2mm		
21	1.18 (.046")	0.68 (.027")	1.65 (.065")	SH21TLCS-B	SH21TLC-B	gray 	50
25	0.76 (.030")	0.30 (.012")	1.27 (.050")	SH25TLCS-B	SH25TLC-B	pink 	50

hub: Polypropylene
shaft: 304 stainless steel
inner line: Teflon (nonstick)



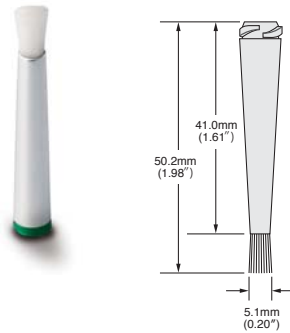
Brush tips

Nylon bristles will not damage the work surfaces and are suited for spreading glues and greases. Soft or stiff bristles are available.

Specialty

Style	standard	high flow
soft	SH40A	SH40HF
stiff	SH41A	SH41HF

bristle: nylon



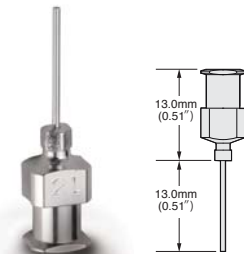
Metal needle tips

13mm tip long as a standard and other length can be customized.

Metal

part number	ID size(mm)	OD size(mm)	pcs per box
SSN-20	0.65 (.026")	0.89 (.035")	12
SSN-21	0.53 (.021")	0.81 (.032")	12
SSN-22	0.47 (.019")	0.71 (.028")	12
SSN-23	0.38 (.015")	0.64 (.025")	12
SSN-24	0.34 (.013")	0.56 (.022")	12
SSN-25	0.33 (.013")	0.51 (.020")	12
SSN-26	0.25 (.010")	0.45 (.018")	12
SSN-27	0.21 (.008")	0.41 (.016")	12
SSN-28	0.18 (.007")	0.38 (.015")	12

shaft neck: Ni plate,
shaft: 304 stainless steel



Metal nozzles (one per unit)

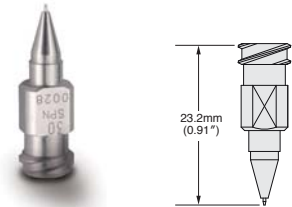
High precision nozzle shaped as one piece provides smooth fluid flow.

Metal

Specialty

part number	ID size(mm)	OD size(mm)
SPN-40	0.40 (.016")	0.50 (.020")
SPN-35	0.35 (.014")	0.45 (.018")
SPN-30	0.30 (.012")	0.40 (.016")
SPN-25	0.25 (.010")	0.35 (.014")
SPN-20	0.20 (.008")	0.30 (.012")
SPN-15	0.15 (.006")	0.25 (.010")
SPN-10	0.10 (.004")	0.20 (.008")

Material: 303 stainless steel
shaft neck: double-thread screw
Minimum orifice needs to be 0.10mm.



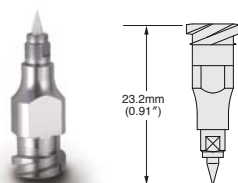
Smooth inner surface prevents clogging and retains fluidity.

Super-Fine ceramic nozzles (one per unit)

Double-thread-screw type nozzle ensures positive attachment to a syringe retaining excellent air tightness. Each size of nozzles by 5µm larger than 0.005mmID can be available.

shaft neck: 303 stainless steel
spacer (between shaft neck and shaft): 303 stainless steel
shaft: ceramic (zirconia)
shaft neck: double-thread screw

Metal



Multiple nozzles

Suited for the application of medium to high viscosity fluids. Different numbers of nozzle and length are available. Multiple chamfered nozzles with taper shaped tips are also available.

Specialty



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

AUTOTUBE System

AUTOTUBE system allows you to dispense any tube or cartridge type materials without refilling to other containers by using 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) enhance accuracy and consistency

AUTOTUBE standard set

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



SRD150

SRD150 generates less air bubbles in the fluid feeding tube for longer tube life.

- Reducing the stress on the feeding tube means longer tube life
- Lower noise, less vibration
- Less heat transfer to the rotary mechanical part (Fluid is unaffected by heat)

Teflon® tubing chart

size	material: PTFE/ length: 10m(394")		
	IDmm	ODmm	Thickness mm
AWG-11	2.41(.095")	3.01(.119")	0.30(.012")
AWG-13	1.93(.076")	2.53(.100")	0.30(.012")
AWG-16	1.35(.053")	1.95(.077")	0.30(.012")
AWG-19*	0.96(.038")	1.56(.061")	0.30(.012")
AWG-24	0.56(.022")	1.06(.042")	0.25(.009")
AWG-26	0.46(.018")	0.92(.036")	0.23(.009")
AWG-28	0.38(.015")	0.84(.033")	0.23(.009")
AWG-30	0.30(.012")	0.76(.030")	0.23(.009")

*The above specifications may change lot by lot.
*AWG-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 3×5 mm 0.12"×0.20"	3.0(0.12")	5.0(0.20")	1.0(0.04")
silicon 2×4 mm 0.08"×0.16"	2.0(0.08")	4.0(0.16")	1.0(0.04")
silicon 1×3 mm 0.04"×0.12"	1.0(0.04")	3.0(0.12")	1.0(0.04")

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

<Applications include>
instantaneous adhesive,
thread-locking fluid,
anaerobic adhesive,
solvents, medical agent, etc.



Specification

Power supply	12VDC (100AC-240V adapter included)			
Power consumption	Approximately 7W			
Outer dimension (including protruding portion)	W78(108)×D130(166.5)×H129mm 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	2.8g/min	Silicon 3×5 mm [ID×OD]	19.5g/min 12.5g/min 4.6g/min
	Teflon® AWG-16	1.5g/min	Silicon 2×4 mm [ID×OD]	
	*3Teflon® AWG-19	0.9g/min	Silicon 1×3 mm [ID×OD]	
Option	<ul style="list-style-type: none"> • Pen type dispenser with finger switch • Foot switch, • Teflon® tube (10m per each), • Silicon tube (10m per each) 			

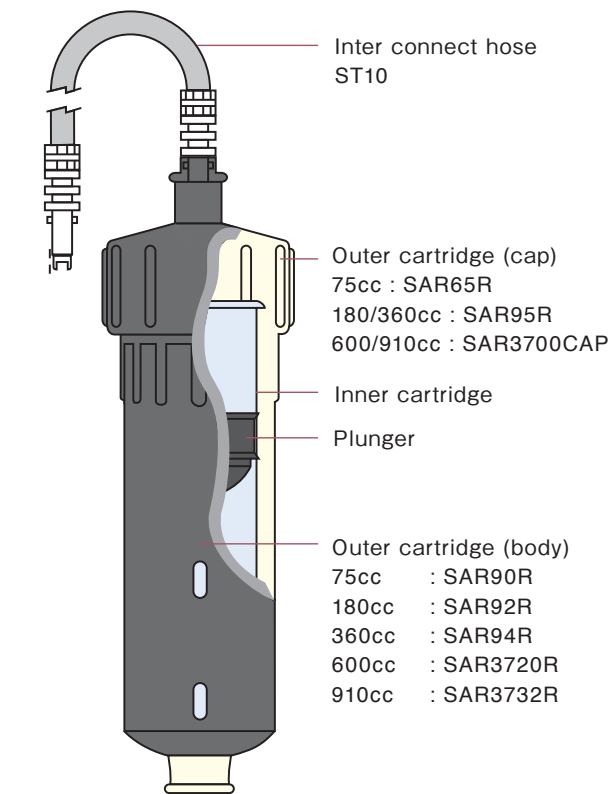
*1 Figures are noted for reference. Please note that it may not be used depending on the property or the conditions of the fluid.

*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.

Cartridge Systems

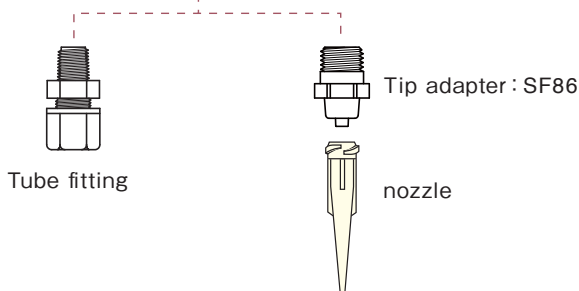
Cartridge systems are ideal for the fluid applications that are likely to require more than 55cc reservoirs. Five sizes, 75cc, 180cc, 360cc, 600cc and 910cc, can be available. Each system can be used with SDP series dispensers ensuring consistent dot or line dispensing. Outer cartridge is durable up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



Cartridge parts

Part name	Part number	unit/pack
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	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
Outlet cap (red)	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

*610cc (20oz) cartridge can also be available



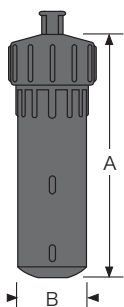
Cartridge nozzle

Compatible with every cartridge



Part name	Length x diameter at the end of the tip	unit/pack
SN80	63.5mm x ϕ 3.2mm	10
SN81	63.5mm x ϕ 1.6mm	10
SN82	101.6mm x ϕ 1.6mm	10
SN83	101.6mm x ϕ 0.8mm	10

Retainer dimensions



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

Ultra High-speed Non-contact Dispenser HYPERDOT



HYPERDOT, non-contact jetting technology is a major leap in liquid dispensing. The non-contact jetting is fast allowing dispensing rates up to 300Hz.

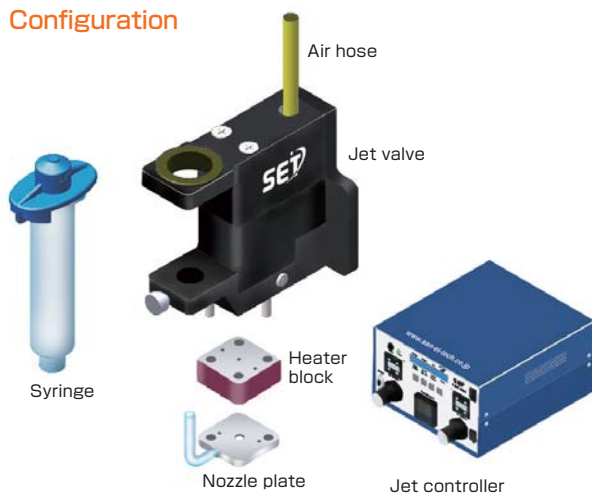
The simplicity of HYPERDOT is also evident in its ease-of-cleaning since all parts that touch the fluid are easily removed.

- Compatible with low to high viscosity fluids up to 50,000cps
- Only two parts touch the fluid - nozzle plate and diaphragm
- No dynamic fluid seals to leak

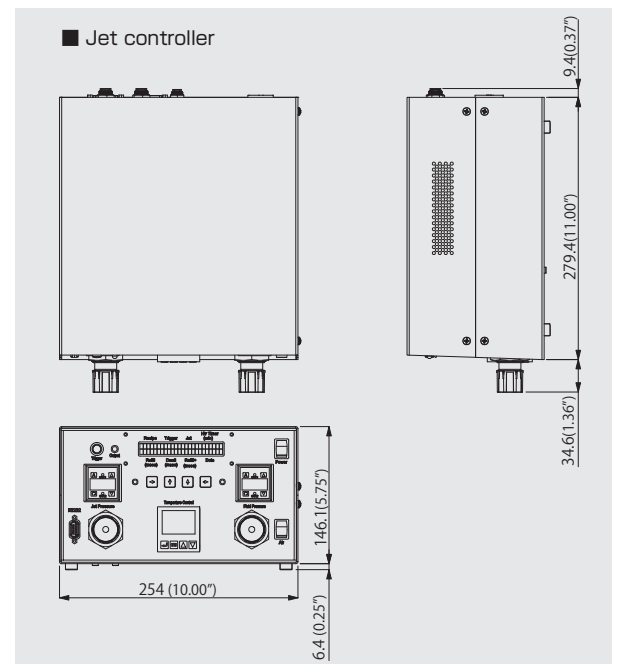
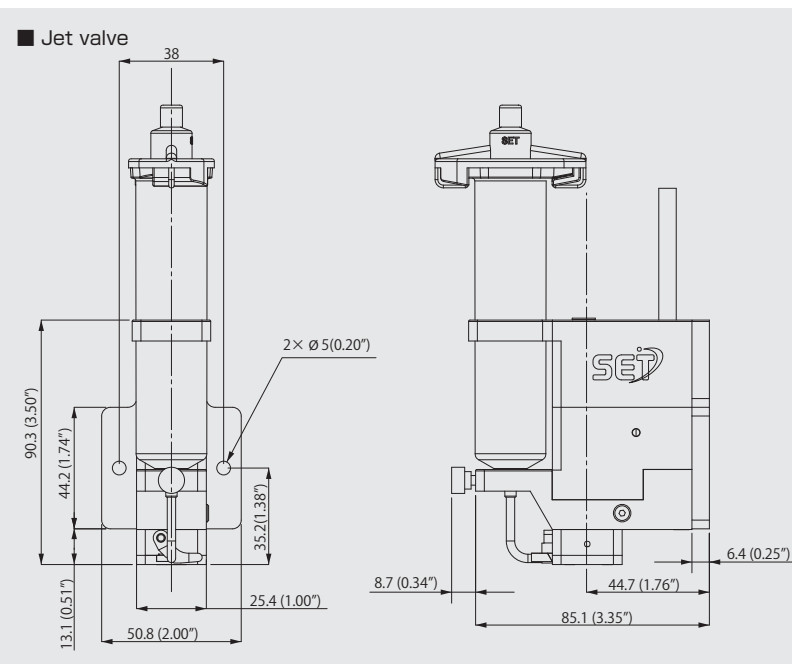
Specifications

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	1-50Pa.s (50Kcps)	
Fluid syringes	5, 10, 30 and 55 cc	
Air pressure	• Jet : 0.24 Mpa (35 psi) - Min 0.62 Mpa (90 psi) - Max	
Clean, dry air required 40µm filter required	• Fluid : 0.27 Mpa (40 psi) - Max • Source : 0.69 Mpa (100 psi) - Max	
Nozzle heater	Heating up to 70oC - Max	
Operating temperature	Up to 50°C	
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/Out put	26 pin DB connector, digital inputs pulled to GND	
Software	Windows XP, Vista and Windows 7 Fluid tables with programmable drop recipes	

Configuration



Dimension



unit:mm ()inch



Desktop Robot 2000N series



Desktop Robot 2000N series allow the user to establish very accurate and repeatable dispensing processes with precise positioning function.

- Smooth movement attained with the micro-step control system
- A special labyrinth mechanism underneath the work table keeps foreign objects out
- A broad interface enhances flexibility.

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

2200N mini Series

Low-cost cell production



2300N Series

With an operation range of 300×320mm, 2 screw feeders can now be installed



2400N Series / 2500N Series

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



This photograph is of the 2400N series.

★Please contact us for the external dimensions of the JR2500N.

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
	Z-Axis	50mm	100mm	150mm	150mm	50mm	100mm	150mm	150mm
	R-Axis	—	—	—	—	±360°	±360°	±360°	±360°
Portable weight ^{※2}	Workpiece	7kg	11kg	11kg	11kg	7kg	11kg	11kg	11kg
	Tool	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
	Z-Axis	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
	R-Axis	—	—	—	—	6~600°/sec	8~800°/sec	8~800°/sec	8~800°/sec
Maximum speed (CP) ^{※3}	XYZcombined 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	
Acceptable moment of inertia		—	—	—	—	65kg·mf	90kg·mf	90kg·mf	90kg·mf
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(W×D×H)		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. Optional system programs are available for basic operations and various applications. ● Broad-use: User-oriented programming such as I/O control etc. by point job teaching.							
Teaching pattern		● Direct teaching using a teaching pendant (optional) ● Off-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 1ch (for a PC: COM1) RS232C 2ch (for external devices: COM2, COM3)(optional) RS422C 1ch (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 data 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.

<http://www.san-ei-tech.co.jp>

SAN-EI TECH is a leader in dispensing solutions.

SAN-EI TECH explores possibilities for better and optimal dispensing solutions while pursuing production efficiency and quality in a variety of industries and applications.

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