

# PRECISION DISPENSER ACCESSORY SERIES

For precision fluid dispensing of specific amounts  
**Accessories, Parts, Valves & Tanks**



- Syringes Accessory
- Nozzles & Needles
- Cartridges Accessory
- Units for Dispensing
- Fluid Dispensing Valves
- Tanks for Fluid Feeding
- Other Productions

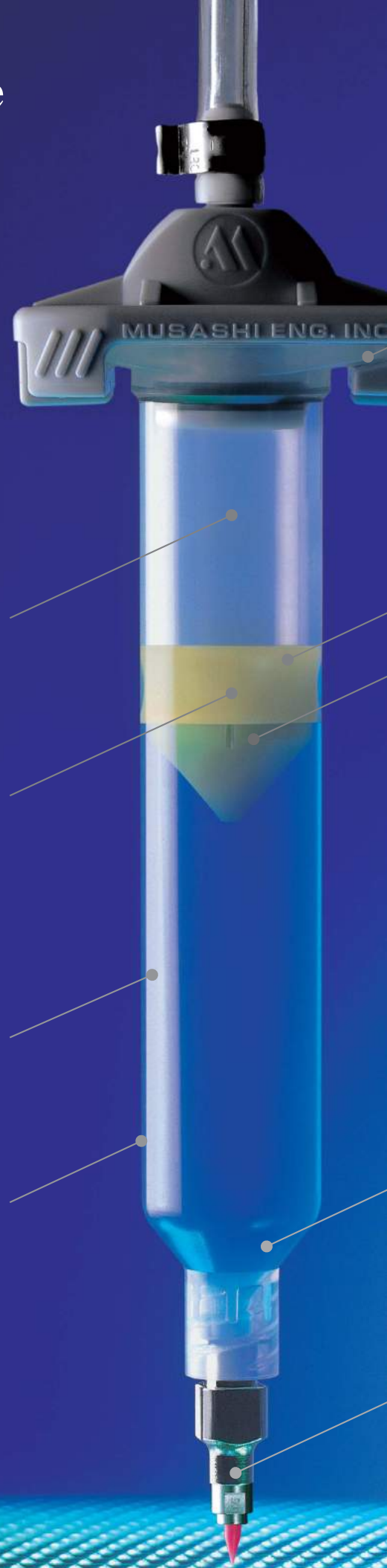


# Fluid control is another field that we support with state-of-the-art manufacturing technology. High-precision, high-quality parts are made with MUSASHI's dispensing know-how.

The proof of superior fluid precision control technology can only be established by a thorough evaluation of all the parts and accessories used in the process, as well as an analysis of the controller's main unit. MUSASHI has searched relentlessly for improvements in fluid control technology. The payoff is their deep knowledge of dispensing technology accumulated over many years. In various industrial based businesses, like the state-of-the-art fields of semiconductors, electronics and precision mechanical devices, we are meeting and exceeding customer's requests for high precision, high quality, and high speed. Our innovations are unique seeds in themselves, that create new needs by their very existence.

Our development approach can be seen in each of the parts and accessories that support high precision dispensing, as well as in the dispensing control section itself. We provide the products that surpass the others in quality and performance. You can select what you need from lots of combinations, matching your dispensing conditions, environment, workpieces, and the fluid solutions you use.

This is another advanced field in which only MUSASHI's precision, fluid control technology has the answers.



*The first in the world  
Straight inner wall design  
of the syringe eliminates  
knocking of the plunger.*

*Yellow color makes it easy  
to check the fluid level.*

*High pressure design greatly  
increases strength.*

*Thick wall minimizes heat expansion.*

Safe and secure  
The adaptor tube with a stopper  
can hold a syringe.

The dual-wiping design  
clears the walls thoroughly.  
Smooth piston operation due to the  
unique aero line system which makes  
high precision dispensing possible.

The first in the world  
The tapered shape  
allows all the material to be dispensed.

Makes minute dosing and precision dispensing  
possible thanks to its high precision and a high  
quality design.

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Syringes & accessories

Nozzles & needles

Cartridges/Barrels & accessories

Other accessories

Additional equipments for dispensers

Fluid dispensing valves

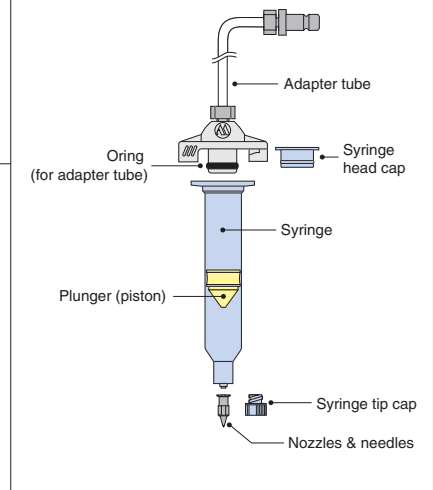
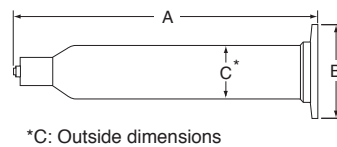
Tanks for fluid feeding

# Creating superior fluid fluidity and extremely high-precision dispensing equipment

All MUSASHI syringes are specialized to meet the most severe requirements of precision dispensing operations.

These are high precision, high quality, highly reliable parts that only MUSASHI can offer backed by MUSASHI's well-researched know-how for fluid dispensing. The most important points of our system that put us far ahead of the competition are: high-precision dispensing (thanks to superior fluid handling characteristics); MUSASHI's unique system for creating smooth piston movement; and our straight wall design that eliminates jerky plunger movements. These advantages lets us improve dispensing quality and dispensing efficiency, while letting our customers save money.

■ Syringe dimension drawings



## Clear syringes

### Ideal dispensing has been achieved thanks to excellent liquid flow characteristics by designing of straight wall inside the syringe



Without graduations



With graduations

This is a syringe which holds liquid material intends exclusively for dispensing. Its unique shape offers excellent flow characteristics. The straight shape of the walls inside the syringe eliminates knocking of plunger intermittent dispensing. Dramatical improvement of dispensing stability. Syringes are available with or without graduated markings for general use or for when you want to check the material level at glance. Select from nine standard sizes (listed in the table below), taking into account your daily dispensing volume.

**Material: Polypropylene**

Syringe capacity	Without graduations		With graduations		Dimensions (AxBxCmm)	Minimum Order Quantity
	Model		Model			
1mL	—		PSY-1E2-M		84×18×φ6.7	50
3mL	PSY-3E		PSY-3E-M		80.1×24.3×φ11.7	50
5mL	PSY-5E		PSY-5E-M		80×27×φ14.9	50
10mL	PSY-10E		PSY-10E-M		105×32×φ18.3	50
20mL	PSY-20F		PSY-20F-M		104.8×45×φ26.2	50
30mL	PSY-30F		PSY-30F-M		129.7×45×φ26.2	50
50mL	PSY-50F		PSY-50F-M		160.7×45×φ26.2	50
70mL	PSY-70F		PSY-70F-M		223.7×45×φ26.5	50
100mL	PSY-100E		—		191×60×φ35.8	20

Note: Working pressure: 0.5MPa maximum at normal temperature

## UV-block syringes

### Long-awaited debut of "world's first"! 100% protection from UV rays, furthermore remaining amount recognizable at a glance



Without graduations



With graduations

Polypropylene syringe exclusively designed for UV curing liquid. This model is a syringe equipped with epoch-making functions, one of which is complete UV ray blockage and the other of which is manifest visibility of the remaining liquid level provided by improved transmittance in the visible light range.

**Material: Polypropylene**

Syringe capacity	Without graduations		With graduations		Dimensions (AxBxCmm)	Minimum Order Quantity
	Model		Model			
3mL	PSY-3EU-OR		PSY-3EU-OR-M		80×24.3×φ11.7	50
5mL	PSY-5EU-OR		PSY-5EU-OR-M		80×27×φ14.9	50
10mL	PSY-10EU-OR		PSY-10EU-OR-M		105.3×32×φ18.3	50
20mL	PSY-20FU-OR		PSY-20FU-OR-M		104.8×45×φ26.2	50
30mL	PSY-30FU-OR		PSY-30FU-OR-M		129.7×45×φ26.2	50
50mL	PSY-50FU-OR		PSY-50FU-OR-M		160.7×45×φ26.1	50
70mL	PSY-70FU-OR		PSY-70FU-OR-M		223.7×45×φ26.4	50

Note: Working pressure: 0.5MPa maximum at normal temperature

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## Color syringe



Peppermint green

## Best suited for managing products by liquid

This syringe is peppermint green, which is best suited for managing products by liquid.

**Material: Polypropylene**

Syringe capacity	Without graduations	Dimensions (AxBxCmm)	Minimum Order Quantity
	Model		
5mL	PSY-5E-PG	80.4×27×φ14.9	50
10mL	PSY-10E-PG	105.5×32×φ18.3	50
20mL	<b>NEW</b> PSY-20F-PG	104.8×45×φ26.2	50
30mL	<b>NEW</b> PSY-30F-PG	129.7×45×φ26.2	50
50mL	<b>NEW</b> PSY-50F-PG	160.7×45×φ26.2	50

Note: Working pressure: 0.5 MPa maximum at normal temperature

## Heat-resistant syringe

### High heat-resistant syringe Best suited for hot melt.



**Syringe material: PBT[PSY-30FH-P]  
Polypropylene[PSY-30FH2-P]**

Heat-resistant temperature	Syringe capacity	Model	Dimensions (AxBxCmm)	Minimum Order Quantity
① 180°C	30mL	PSY-30FH-P	130.5×45×φ26.5	50
② 130°C	30mL	PSY-30FH2-P	130×45×φ26.5	50

## Mounter-specific syringe

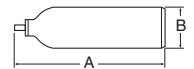
### Highly stable dispensing is provided to temporary chip fixing process thanks to this syringe.



This syringe can be simply equipped on a chip mounter.

**Material: Polypropylene**

Syringe capacity	Model	Dimensions (AxBmm)	Minimum Order Quantity
20mL	PSY-20P	96.6×φ26	50



## Antistatic syringe set



### Outstanding antistatic effect! Eliminates static electricity build-up, thanks to its conductive design

**Syringe material: Polypropylene  
Adapter material: Polyacetal Tube material: Polyurethane  
Oring material: Fluororubber**

Syringe capacity	Antistatic syringe			Applicable dispenser	Antistatic adapter tube (with stopper)	
	Model	Dimensions (AxBxCmm)	Minimum Order Quantity		Model	Tube length
10mL	PSY-10E-SEP	105.5×32×φ18.3	50	—	AT-10E-H-SEP-1.0M	1m
30mL	PSY-30E-SEP	130×45×φ26.2	50	—	AT-50E-H-SEP-1.0M	1m
				For Σ	AT-50E-H-SEP-SIGMA-1.0M	1m
50mL	PSY-50E-SEP	161.5×45×φ26.2	50	—	AT-50E-H-SEP-1.0M	1m
				For Σ	AT-50E-H-SEP-SIGMA-1.0M	1m

Note: 1. Working pressure: 0.5MPa (5kgf/cm<sup>2</sup>) maximum, when using a PSY-10E-SEP at normal temperature  
0.3MPa (3kgf/cm<sup>2</sup>) maximum, when using a PSY-30E-SEP or a PSY-50E-SEP at normal temperature  
2. The tube length of the adapter tube can be specified (in steps of 0.5mm). The following example shows how to specify the length.  
E.g.: To order a 1.5m-long antistatic adapter tube (with stopper) for a 10mL syringe, specify it as "AT-10E-H-SEP-1.5M".

## Stainless syringe set



### Best suited for dispensing at high temperatures

The introduction of the luerlock type allows a nozzle to be mounted in a safe and secure manner.

Capable of coping with high temperatures (200°C).

**Syringe material: Stainless steel  
Adapter material: Stainless steel Tube material: Fluorocarbon polymers  
Oring material: Fluororubber**

Syringe capacity	Stainless syringe			Stainless adapter tube (with stopper)	
	Model	Dimensions (AxBxCmm)	Minimum Order Quantity	Model	Tube length
1mL	SSY-1B	85×18×φ6.6	1	Option	
3mL	SSY-3E	80×24×φ11.2	1	AT-3E-SUS-1.0M	1m
5mL	SSY-5E	80×27×φ14.7	1	AT-5E-SUS-1.0M	1m
10mL	SSY-10E	105×32×φ18.1	1	AT-10E-SUS-1.0M	1m
30mL	SSY-30E	130×45×φ25.5	1	AT-50E-SUS-1.0M	1m
50mL	SSY-50E	160×45×φ25.5	1		1m

Note: 1. Please contact our Sales Department for options.  
2. Working pressure: Max. 0.5 MPa  
3. The tube length of the adapter tube can be specified (in steps of 0.5mm). The following example shows how to specify the length.  
E.g.: To order a 1.5m-long stainless adapter tube (with stopper) for a 10mL syringe, specify it as "AT-10E-SUS-1.5M".

# Lineup of new type adapter tubes equipped with a safe and secure stopper



With stopper

## Adapter tube [with stopper]



### One touch connecting! Excellence in liquid stable dispensing with high level of airtightness!

This tube is used to carry the compressed air from the dispenser housing to the syringe.

**Adapter material: Polyacetal (AT-100E: made of aluminium alloy)**

**Tube material: Special elastomer resin (for  $\Sigma$  series dispensers: Polyurethane)**

**Oring material: Fluororubber**

Syringe capacity	Model	Tube length
1mL	AT-1E *1	1m
3mL	AT-3E-H-1.0M	1m
5mL	AT-5E-H-1.0M	1m
10mL	AT-10E-H-1.0M	1m
20 - 70mL	AT-50E-H-1.0M	1m
5mL (for $\Sigma$ )	AT-5E-H-SIGMA-1.0M	1m
10mL (for $\Sigma$ )	AT-10E-H-SIGMA-1.0M	1m
20 - 70mL (for $\Sigma$ )	AT-50E-H-SIGMA-1.0M	1m
100mL	AT-100E *1	1m

Note: This product can be ordered with length specification (in units of 0.5m). The following instruction shows how to specify the length.

E.g.: If you want to order a 1.5m-long adapter tube (with stopper) for a 10mL syringe, the item number is "AT-10E-H-1.5M".

If you want to purchase a special adapter tube used exclusively with the  $\Sigma$  series that is longer than 1 m, please contact our sales department.

\*1 The products, AT-1E and AT-100E are not equipped with a stopper.

## Adapter tube [with stopper, with clamp]



### Thorough elimination of liquid backflow during machine stop

**Adapter material: Polyacetal**

**Tube material: Special elastomer resin**

**Oring material: Fluororubber**

Syringe capacity	Model	Tube length
3mL	AT-3E-H-C-1.0M	1m
5mL	AT-5E-H-C-1.0M	1m
10mL	AT-10E-H-C-1.0M	1m
20 - 70mL	AT-50E-H-C-1.0M	1m

Note: This product can be ordered with length specification (in units of 0.5m). The following instruction shows how to specify the length.

E.g.: If you want to order a 1.5m-long adapter tube (with stopper and clamp) for a 10mL syringe, the item number is "AT-10E-H-C-1.5M".

## Adapter tube for plastic connector [with stopper]



**Adapter material: Polyacetal**

**Tube material: Special elastomer resin**

**Oring material: Fluororubber**

Syringe capacity	OD4mm type tube	OD6mm type tube	Tube length
	Model	Model	
3mL	AT-3E-H-P4C-1.0M	AT-3E-H-P6C-1.0M	1m
5mL	AT-5E-H-P4C-1.0M	AT-5E-H-P6C-1.0M	1m
10mL	AT-10E-H-P4C-1.0M	AT-10E-H-P6C-1.0M	1m
20 - 70mL	AT-50E-H-P4C-1.0M	AT-50E-H-P6C-1.0M	1m

Note: 1. This product can be ordered with length specification (in units of 0.5m). The following instruction shows how to specify the length.

E.g.: If you want to order a 1.5m-long adapter tube (with stopper) for a 10mL syringe and a plastic connector, the item number is "AT-10E-H-P4C-1.5M".

2. Both OD4 type tube and OD6 type tube are equipped with a clamp.



## Side connection adapter tube [with stopper]



### Suitable for locations where there is not enough space above the syringe

In this tube assembly, the tube comes out of the side of the adapter. This model is suitable when there is not enough space above the syringe. Ex.: Mounting a dispenser on an automatic machine.

**Adapter material: Polyacetal Tube material: Special elastomer resin**  
**Oring material: Fluororubber**

Syringe capacity	Model	Tube length
5mL	AT-5E-H-S-1.0M	1m
10mL	AT-10E-H-S-1.0M	1m
20 - 70mL	AT-50E-H-S-1.0M	1m
20 - 70mL (for $\Sigma$ )	AT-50E-H-S-SIGMA	1m

Note: This product can be ordered with length specification (in units of 0.5m). The following instruction shows how to specify the length.

E.g.: If you want to order a 1.5m-long antistatic adapter tube (with stopper) for a 10mL syringe, the item number is "AT-10E-H-S-1.5M".

If you want to purchase a special adapter tube used exclusively with the  $\Sigma$  series that is longer than 1 m, please contact our sales department.

## Air connector tube, with filter



### Liquid intake prevention

This product prevents the intake of liquid material into dispenser and accordingly prevents a failure from occurring.

**Tube material: Special elastomer resin**

Item name	Model	Tube length
Air connector tube [QJ plug/QJ socket, with filter, 150mm]	CT-36PS-F	150mm

## Oring for Adapter tube



### High level of airtightness by selecting Orings matching to the fluid materials.

This is a spare Oring for the adapter. You can select a suitable Oring made from three kinds of material, in order to match the fluid material's dispensing requirements.

**Material: Fluororubber/Silicone rubber/Nitrile rubber/Perfluoroelastomer**

Syringe capacity	①Fluororubber		②Silicone rubber		③Nitrile rubber		④Perfluoroelastomer		Minimum Order Quantity
	Model	(Former model)	Model	(Former model)	Model	(Former model)	Model	(Former model)	
1mL	ORG-1.5-V-B-1	AOV-1E	ORG-1.5-S-R-1	AOS-1E	ORG-1.5-N-B-1	AON-1E	ORG-1.5-P-B-1	AOP-1E	20
3mL	ORG-6-V-B-1	AOV-3	ORG-6-S-R-1	AOS-3	ORG-6-N-B-1	AON-3	ORG-6-P-B-1	AOP-3	20
5mL	ORG-9-V-B-1	AOV-5E	ORG-9-S-R-1	AOS-5E	ORG-9-N-B-1	AON-5E	ORG-9-P-B-1	AOP-5E	20
10mL	ORG-11-V-B-1	AOV-10E	ORG-11-S-R-1	AOS-10E	ORG-11-N-B-2	AON-10E	ORG-11-P-B-1	AOP-10E	20
20 - 70mL	ORG-18-V-B-1	AOV-50E	ORG-18-S-R-1	AOS-50E	ORG-18-N-B-1	AON-50E	ORG-18-P-B-1	AOP-50E	20
100mL	ORG-24-V-B-1	AOV-100E	ORG-24-S-R-1	AOS-100E	ORG-24-N-B-2	AON-100E	ORG-24-P-B-1	AOP-100E	20

**Plunger**

**High-precision dispensing with excellence in wiping performance**

This plunger is inserted into a fluid-filled syringe. It can dispense absolutely all of the fluid without any waste.

**4-type lineup in accordance with fluid type, dispensing characteristics and applications**

**Float wiper plunger**



Yellow

**High-speed high-precision**

More

**Miracle wiper plunger**



Red



Blue



White

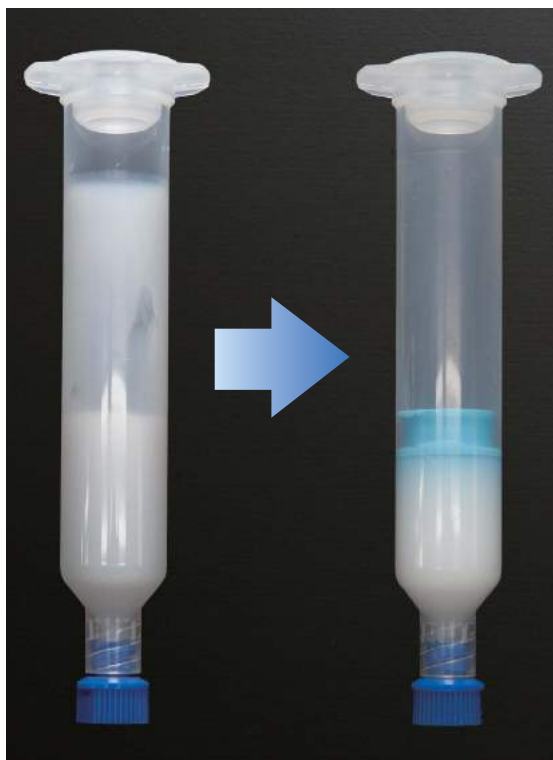
**Special wiping feature**

Less

**Smoothness between plunger and syringe**

Syringe capacity	Float wiper plunger (yellow)	Miracle wiper plunger (red)	Miracle wiper plunger (blue)	Miracle wiper plunger (white)	Minimum Order Quantity
	Model	Model	Model	Model	
1mL	FLP-1E	—	—	—	50
3mL	FLP-3E	—	—	—	50
5mL	FLP-5E	MLP-R-5E	MLP-B-5E	MLP-5E	50
10mL	FLP-10E	MLP-R-10E	MLP-B-10E	MLP-10E	50
20 - 70mL	FLP-50E	MLP-R-50E	MLP-B-50E	MLP-50E	50

Material: Polyethylene



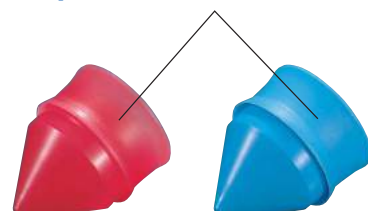
Without plunger

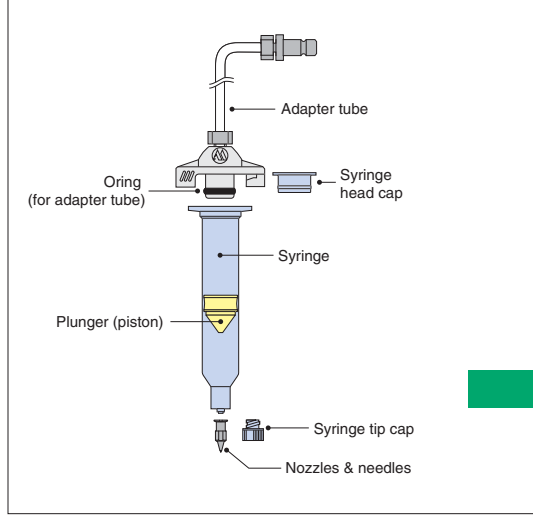
With plunger

**Cost reduction in materials**

**Reduction in fraction defective**

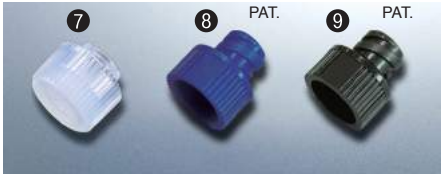
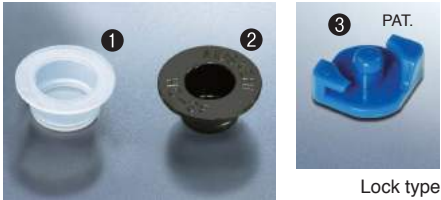
**Reliable fluid wiping thanks to dual wipe structure.**





## Syringe head cap/ Syringe tip cap

(former: head cap/needle cap)



## Use caps to store the material left inside the syringe or to transfer the syringe to a different location

These caps are used to seal the head and tail of the syringe.

**Material:** Polyethylene for ①, ②, ③, ⑦, and ⑧ Polypropylene for ④ and ⑤ PBT for ⑥

### Syringe head cap (former: head cap)

Syringe capacity	① For ordinary materials	② For UV materials	③ For ordinary materials (with hook)	Minimum Order Quantity
	Model	Model	Model	
1mL	HC-1E	—	HC-1E-H	50
3mL	HC-3E	HC-3EU-B	—	50
5mL	HC-5E	HC-5EU-B	—	50
10mL	HC-10C	HC-10U-B	—	50
20 - 70mL	HC-50E	HC-50EU-B	—	50
100mL	HC-100E	—	—	50

### Syringe tip cap (normal type) (former: needle cap)

Syringe capacity	④ For ordinary materials	⑤ For UV materials	⑥ For heat-resistant materials	Minimum Order Quantity
	Model	Model	Model	
Common for all sizes	NC-3E	NC-3EU-B	NC-3FH	50

### Syringe tip cap (knurled type) (former: needle cap)

Syringe capacity	⑦ For ordinary materials	⑧ For ordinary materials	⑨ For UV materials	Minimum Order Quantity
	Model	Model	Model	
Common for all sizes	NC-5E	NC-7E	NC-7EU-B	50

## Protective cap for syringe tip



## Protects the end of the syringe while a tip cap is on the other end.

When storing or moving a syringe containing material, this cap prevents leaks that can occur if the tip cap becomes damaged or dislodged.

**Material:** Polypropylene

Syringe capacity	Applicable tip cap	Model	Minimum Order Quantity
Common for all sizes	NC-3E/NC-3EU-B	GC-1	50

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# The best quality promises the finest dispensing

Only the best parts are used on the liquid outlet in order to achieve the maximum high-precision controller performance.

To achieve our idea, MUSASHI has brought together all of our accumulated wisdom about dispensing technology and then we used computers to design our own unique needles and nozzles.

By complete automation and skillful, mechanized processing technology we can create products that offer the world's highest precision commercial dispensing.

Our wide range of products can handle the type of fluid and dispensing requirements you have, no matter what they are.

## Metal needles

### SNA series



### Versatile standard metal needle

These metal needles are made of stainless steel, making them very long lasting.

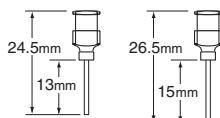
We offer a wide variety of lineup which is applicable to various dispensing shapes.

**Needle material:**

**Stainless steel**

**Body material:**

**Brass (Nickel plated)**



• Type B

• Type C

Measurement unit (mm)

Gauge	Needle length 13	Needle length 15	Needle OD (φ)	Needle ID (φ)	Minimum Order Quantity
	Model	Model			
12	SNA-12G-B	SNA-12G-C	2.77	2.27	60
13	SNA-13G-B	SNA-13G-C	2.40	1.94	60
14	SNA-14G-B	SNA-14G-C	2.10	1.64	60
15	SNA-15G-B	SNA-15G-C	1.83	1.43	60
16	SNA-16G-B	SNA-16G-C	1.65	1.25	60
17	SNA-17G-B	SNA-17G-C	1.49	1.11	60
18	SNA-18G-B	SNA-18G-C	1.28	0.92	60
19	SNA-19G-B	SNA-19G-C	1.08	0.72	60
20	SNA-20G-B	SNA-20G-C	0.91	0.61	60
21	SNA-21G-B	SNA-21G-C	0.82	0.52	60
22	SNA-22G-B	SNA-22G-C	0.72	0.42	60
23	SNA-23G-B	SNA-23G-C	0.64	0.34	60
24	SNA-24G-B	SNA-24G-C	0.57	0.31	60
25	SNA-25G-B	SNA-25G-C	0.52	0.26	60
26	SNA-26G-B	SNA-26G-C	0.46	0.25	60
27	SNA-27G-B	SNA-27G-C	0.42	0.21	60
28	SNA-28G-B	SNA-28G-C	0.36	0.18	60
30	SNA-30G-B	SNA-30G-C	0.32	0.14	60
31	<b>NEW</b> SNA-31G-B	<b>NEW</b> SNA-31G-C	0.26	0.13	60
32	<b>NEW</b> SNA-32G-B	<b>NEW</b> SNA-32G-C	0.23	0.10	60

Note: For specifying needle length, the length from needle top to its body bottom should be notified. Contact our sales department for further information.

## Nozzle gauge is discernible by the colors of the needle base

## Plastic needles



### Inexpensive disposable type

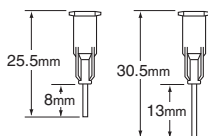
These are economical, disposable needles.

**Needle material:**

**Stainless steel**

**Body material:**

**Polyacetal**



• Type A

• Type B

Measurement unit (mm)

Gauge	Needle length 8	Needle length 13	Needle OD (φ)	Needle ID (φ)	Color	Minimum Order Quantity
	Model	Model				
15	PN-15G-A	PN-15G-B	1.83	1.43	● Brown	50
16	PN-16G-A	PN-16G-B	1.65	1.26	● Black	50
17	PN-17G-A	PN-17G-B	1.50	1.06	● Blue	50
18	PN-18G-A	PN-18G-B	1.27	0.97	● Gray	50
19	PN-19G-A	PN-19G-B	1.08	0.78	● Light green	50
20	PN-20G-A	PN-20G-B	0.90	0.66	● Light pink	50
21	PN-21G-A	PN-21G-B	0.81	0.57	○ White	50
22	PN-22G-A	PN-22G-B	0.72	0.47	● Light blue	50
23	PN-23G-A	PN-23G-B	0.64	0.40	● Yellow	50
24	PN-24G-A	PN-24G-B	0.56	0.31	● Ivory	50
25	PN-25G-A	PN-25G-B	0.51	0.29	● Pink	50
26	PN-26G-A	PN-26G-B	0.46	0.25	● Peppermint green	50
27	PN-27G-A	PN-27G-B	0.41	0.20	● Brown	50

Note: For specifying needle length, the length from needle top to its body bottom should be notified. Contact our sales department for further information.

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## Double thread screwed plastic needle

## Safe and sure attachment into a syringe with double thread screwed needle screw

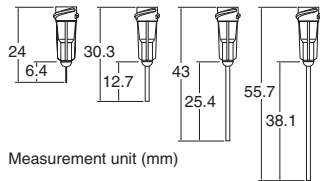
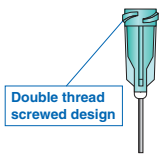


Double thread screw design allows the user to install the needle on the syringe securely. A variety of needle lengths and gauges expands the dispensing application range.

**Needle material: Stainless steel Body material: Polypropylene**

Measurement unit (mm)

Gauge	Needle length 6.4	Needle length 12.7	Needle length 25.4	Needle length 38.1	Needle OD (φ)	Needle ID (φ)	Color	Minimum Order Quantity
	Model	Model	Model	Model				
14	—	DPN-14G-1	DPN-14G-2	DPN-14G-3	1.83	1.52	● Dark green	50
15	—	DPN-15G-1	DPN-15G-2	DPN-15G-3	1.65	1.37	● Brown	50
18	—	DPN-18G-1	DPN-18G-2	DPN-18G-3	1.27	0.84	● Green	50
20	—	DPN-20G-1	DPN-20G-2	DPN-20G-3	0.91	0.58	● Pink	50
21	—	DPN-21G-1	DPN-21G-2	DPN-21G-3	0.81	0.51	● Purple	50
22	—	DPN-22G-1	DPN-22G-2	DPN-22G-3	0.71	0.41	● Blue	50
23	—	DPN-23G-1	DPN-23G-2	DPN-23G-3	0.64	0.33	● Orange	50
25	—	DPN-25G-1	DPN-25G-2	DPN-25G-3	0.51	0.25	● Red	50
27	—	DPN-27G-1	—	—	0.41	0.20	○ Clear	50
30	—	DPN-30G-1	—	—	0.30	0.15	● Light purple	50
32	DPN-32G-0	DPN-32G-1	—	—	0.23	0.10	● Yellow	50



## Curve needle™

## Best suited for dispensing to the inner surface of a workpiece



Stable dispensing achieved thanks to bending with excellent flowability.

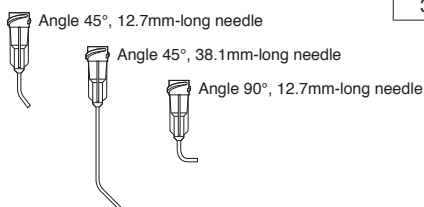
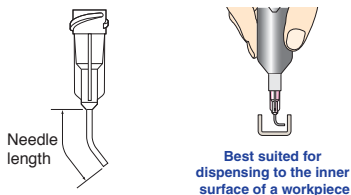
A variety of curve needles in two angles after a wide range of applications.

Double thread screw design allows the user to install the needle on the syringe securely.

**Needle material: Stainless steel Body material: Polypropylene**

Measurement unit (mm)

Gauge	Angle 45°		Angle 90°	Needle OD (φ)	Needle ID (φ)	Color	Minimum Order Quantity
	Needle length 12.7	Needle length 38.1	Needle length 12.7				
	Model	Model	Model				
14	CPN-14G-A45	CPN-14G-B45	CPN-14G-A90	1.83	1.52	● Dark green	50
15	CPN-15G-A45	—	CPN-15G-A90	1.65	1.37	● Brown	50
18	CPN-18G-A45	CPN-18G-B45	CPN-18G-A90	1.27	0.84	● Green	50
20	CPN-20G-A45	—	CPN-20G-A90	0.91	0.58	● Pink	50
21	CPN-21G-A45	CPN-21G-B45	CPN-21G-A90	0.81	0.51	● Purple	50
22	CPN-22G-A45	—	CPN-22G-A90	0.71	0.41	● Blue	50
23	CPN-23G-A45	—	CPN-23G-A90	0.64	0.33	● Orange	50
25	CPN-25G-A45	—	CPN-25G-A90	0.51	0.25	● Red	50
27	CPN-27G-A45	—	CPN-27G-A90	0.41	0.20	○ Clear	50
30	CPN-30G-A45	—	CPN-30G-A90	0.30	0.15	● Light purple	50



## SUS guide PTFE nozzle



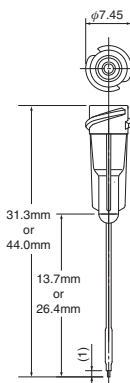
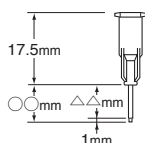
### Good performance in high-precision dispensing of anaerobic fluid material

Use this needle to dispense materials that cannot come into contact with a metal needle.

Guides made of stainless steel prevent fluctuations at the needle tip.

**Needle material: PTFE**  
**Guide material: Stainless steel**

**Body material: Polyacetal**



Measurement unit (mm)					
Gauge	Model	SUS guide OD ( $\phi$ )	PTFE nozzle ID ( $\phi$ )	Color	Minimum Order Quantity
16	TN-16G- $\bigcirc\bigcirc$ L-13G- $\triangle\triangle$ L	2.42	1.07	Ivory	1
17	TN-17G- $\bigcirc\bigcirc$ L-14G- $\triangle\triangle$ L	2.01	0.96	Yellow	1
18	TN-18G- $\bigcirc\bigcirc$ L-14G- $\triangle\triangle$ L	2.01	0.86	Gray	1
19	TN-19G- $\bigcirc\bigcirc$ L-15G- $\triangle\triangle$ L	1.82	0.68	Light green	1
20	TN-20G- $\bigcirc\bigcirc$ L-16G- $\triangle\triangle$ L	1.67	0.56	Light pink	1
21	TN-21G- $\bigcirc\bigcirc$ L-17G- $\triangle\triangle$ L	1.56	0.46	Light blue	1
22	TN-22G- $\bigcirc\bigcirc$ L-18G- $\triangle\triangle$ L	1.22	0.38	Brown	1

\* Enter the PTFE nozzle length as digit in the circles:  $4 \leq \bigcirc\bigcirc \leq 50$  (mm)  
Enter the SUS guide length as digit in the triangles:  $3 \leq \triangle\triangle \leq 49$  (mm)  
(Make sure to specify that an SUS guide is 1mm shorter than the PTFE nozzle.)

Note: If you want to order a PTFE nozzle with an SUS guide, please put the needle length in the model number.

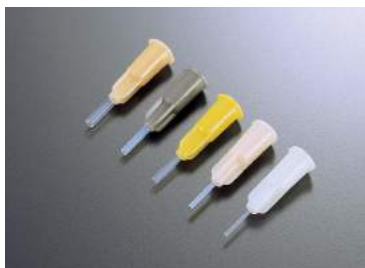
E.g.: The case you want to order a 20mm-long 19G PTFE nozzle, please order "TN-19G-20L-15G-19L" as a model number.

## Ultra-fine needle type

Measurement unit (mm)							
Needle length 13.7		Needle length 26.4		PTFE nozzle OD ( $\phi$ )	PTFE nozzle ID ( $\phi$ )	Color	Minimum Order Quantity
Model		Model					
TN-0.3-13.7-SUSG		TN-0.3-26.4-SUSG		0.5	0.3	Pink	1
TN-0.2-13.7-SUSG		TN-0.2-26.4-SUSG		0.4	0.2	Purple	1
TN-0.1-13.7-SUSG		TN-0.1-26.4-SUSG		0.3	0.1	Orange	1

**Needle material: PTFE**  
**Guide material: Stainless steel**  
**Body material: Polypropylene**

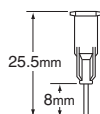
## PTFE nozzle



### Applicable to dispensing of anaerobic liquid material

Use this needle to dispense materials that cannot come into contact with a metal needle. This is suitable for dispensing anaerobic fluid materials.

**Needle material: PTFE**  
**Body material: Polyacetal**



Measurement unit (mm)					
Gauge	Needle length 8	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Color	Minimum Order Quantity
	Model				
13	TN-13G	2.10	1.50	Ivory	50
14	TN-14G	1.95	1.35	Blue	50
15	TN-15G	1.79	1.19	Gray	50
16	TN-16G	1.67	1.07	Ivory	50
17	TN-17G	1.56	0.96	Yellow	50
18	TN-18G	1.46	0.86	Gray	50
19	TN-19G	1.18	0.68	Light green	50
20	TN-20G	1.06	0.56	Light pink	50
21	TN-21G	0.92	0.46	Light blue	50
22	TN-22G	0.84	0.38	White	50

Note: For specifying needle length, the length from needle top to its body bottom should be notified.  
Contact our sales department for further information.



## Soft needle



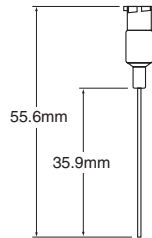
### Soft touch, and no damage on workpiece

Soft and flexible needle prevents damage to workpieces and reduces your NG rate. Especially effective for dispensing onto narrowly arranged workpieces. Can be used for dispensing anaerobic fluid material.

**Needle material: Polypropylene**  
**Body material: Polypropylene**

Measurement unit (mm)

Gauge	Needle length 35.9 Model	Needle OD ( $\phi$ )	Needle ID ( $\phi$ )	Color	Minimum Order Quantity
16	PPN-16G	1.70	1.19	Brown	50
18	PPN-18G	1.35	0.81	Pink	50
20	PPN-20G	0.99	0.61	Yellow	50
22	PPN-22G	0.81	0.38	Black	50
25	PPN-25G	0.74	0.33	Red	50



## Double thread screwed tapered nozzle

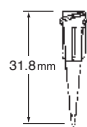


### Best suited for dispensing of high-viscosity liquid, and disposable

Since this nozzle is tapered, it is suitable for both high and low viscosity fluids and materials.

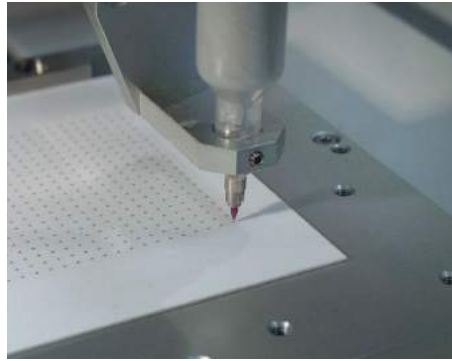
**Nozzle material: Polyethylene**

Measurement unit (mm)

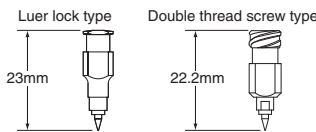
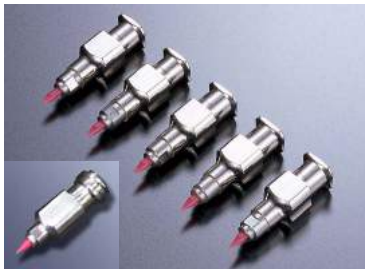


Gauge	Model	Needle ID ( $\phi$ )	Color	UV block	Minimum Order Quantity
14	TPND-14G	1.60	Pale orange	-	50
16	TPND-16G	1.19	Gray	-	50
18	TPND-18G	0.84	Light green (Former: Green)	-	50
20	TPND-20G	0.61	Pink	-	50
22	TPND-22G	0.40	Blue	-	50
25	TPND-25G	0.25	Rose* (Former: Red)	-	50
27	TPND-27G-U	0.20	Dark gray	○	50
30	TPND-30G-U	0.15	Olive	○	50

\* Only color notation is changed. Production specifications are not changed.



## Super-fine nozzles



## Micro-dispensing, as little as $\varnothing$ several tens $\mu$ m of dispensing available

Incorporation of these super-fine nozzles into MUSASHI dispensers allows to perform super-fine dotting and ultra-precision drawing.

**Body material : Brass (Nickel plated) [Luer lock type]**  
**: Stainless steel [Double thread screw type]**

Measurement unit (mm)					Tip thickness: 15 $\mu$ m					Measurement unit (mm)				
Luer lock Model	Double thread screw Model	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Minimum Order Quantity	Luer lock Model	Double thread screw Model	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Minimum Order Quantity	Luer lock Model	Double thread screw Model	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Minimum Order Quantity
FN-0.60N	FN-0.60ND	0.70	0.60	1	FN-0.60N-F	FN-0.60ND-F	0.63	0.60	1	FN-0.60N-F	FN-0.60ND-F	0.63	0.60	1
FN-0.50N	FN-0.50ND	0.60	0.50	1	FN-0.50N-F	FN-0.50ND-F	0.53	0.50	1	FN-0.50N-F	FN-0.50ND-F	0.53	0.50	1
FN-0.40N	FN-0.40ND	0.50	0.40	1	FN-0.40N-F	FN-0.40ND-F	0.43	0.40	1	FN-0.40N-F	FN-0.40ND-F	0.43	0.40	1
FN-0.30N	FN-0.30ND	0.40	0.30	1	FN-0.30N-F	FN-0.30ND-F	0.33	0.30	1	FN-0.30N-F	FN-0.30ND-F	0.33	0.30	1
FN-0.25N	FN-0.25ND	0.35	0.25	1	FN-0.25N-F	FN-0.25ND-F	0.28	0.25	1	FN-0.25N-F	FN-0.25ND-F	0.28	0.25	1
FN-0.20N	FN-0.20ND	0.30	0.20	1	FN-0.20N-F	FN-0.20ND-F	0.23	0.20	1	FN-0.20N-F	FN-0.20ND-F	0.23	0.20	1
FN-0.15N	FN-0.15ND	0.25	0.15	1	FN-0.15N-F	FN-0.15ND-F	0.18	0.15	1	FN-0.15N-F	FN-0.15ND-F	0.18	0.15	1
FN-0.10N	FN-0.10ND	0.20	0.10	1	FN-0.10N-F	FN-0.10ND-F	0.13	0.10	1	FN-0.10N-F	FN-0.10ND-F	0.13	0.10	1
FN-0.05N	FN-0.05ND	0.15	0.05	1	FN-0.05N-F	FN-0.05ND-F	0.08	0.05	1	FN-0.05N-F	FN-0.05ND-F	0.08	0.05	1
FN-0.04N	FN-0.04ND	0.14	0.04	1	FN-0.04N-F	FN-0.04ND-F	0.07	0.04	1	FN-0.04N-F	FN-0.04ND-F	0.07	0.04	1
FN-0.03N	FN-0.03ND	0.13	0.03	1	FN-0.03N-F	FN-0.03ND-F	0.06	0.03	1	FN-0.03N-F	FN-0.03ND-F	0.06	0.03	1
FN-0.02N	FN-0.02ND	0.12	0.02	1	FN-0.02N-F	FN-0.02ND-F	0.05	0.02	1	FN-0.02N-F	FN-0.02ND-F	0.05	0.02	1

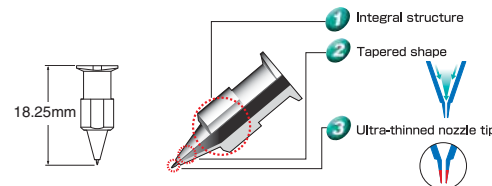
## Precision solid nozzle



## Micro volume dispensing with high stability achieved thanks to integral nozzle structure

The integral structure eliminates the operation of needle mounting to the nozzle. Excellent flowability thanks to the tapered needle tip. High-precision dispensing with high stability in small volume has been achieved thanks to ultra-thin needle tip.

**Nozzle material: Stainless steel**



Measurement unit (mm)			
Model	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Minimum Order Quantity
SHN-0.6N	0.70	0.60	1
SHN-0.5N	0.60	0.50	1
SHN-0.45N	0.55	0.45	1
SHN-0.4N	0.50	0.40	1
SHN-0.35N	0.45	0.35	1
SHN-0.3N	0.40	0.30	1
SHN-0.25N	0.35	0.25	1
SHN-0.2N	0.30	0.20	1
SHN-0.15N	0.25	0.15	1
SHN-0.1N	0.20	0.10	1

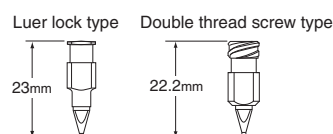
## Precision nozzles



## High-precision stable dispensing of liquid containing filler

Stable dispensing of liquid containing filler. Suitable for high-precision dispensing of super-small volume of materials.

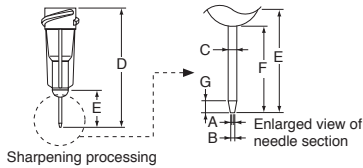
**Nozzle material : Stainless steel**  
**Body material : Brass (Nickel plate) [Luer lock type]**  
**: Stainless steel [Double thread screw type]**



Measurement unit (mm)				
Luer lock Model	Double thread screw Model	Nozzle OD ( $\phi$ )	Nozzle ID ( $\phi$ )	Minimum Order Quantity
HN-0.6N	HN-0.6ND	0.80	0.60	1
HN-0.5N	HN-0.5ND	0.70	0.50	1
HN-0.4N	HN-0.4ND	0.60	0.40	1
HN-0.3N	HN-0.3ND	0.50	0.30	1
HN-0.25N	HN-0.25ND	0.45	0.25	1
HN-0.2N	HN-0.2ND	0.40	0.20	1
HN-0.15N	HN-0.15ND	0.25	0.15	1
HN-0.1N	HN-0.1ND	0.20	0.10	1



## Sharp needle™



## Prevention of liquid climbing thanks to sharpening processing of needle tip

Prevention of liquid climbing to needle tip assures a stable dispensing rate.  
Micro-dispensing has been achieved by high-precision tapered needle tip.  
Double thread screw design allows the user to install the needle on the syringe securely.

**Needle material: Stainless steel Body material: Polypropylene**

Measurement unit (mm)

Model	Total length (D)	Needle length (E)	Visible needle length (E)	Tapered tip length (G)	Needle ID ( $\phi$ ) (A)	Needle tip OD ( $\phi$ ) (B)	Needle OD ( $\phi$ ) (C)	Color	Minimum Order Quantity
SPN-0.84-12.7L	30.3	12.7	(11.4)	(0.6)	0.84	1.00	1.27	Green	50
SPN-0.58-38.1L	55.7	38.1	(37.1)	(0.32)	0.58	0.74	0.91	Pink	50
SPN-0.41-38.1L	55.7	38.1	(37.1)	(0.4)	0.41	0.52	0.71	Blue	50
SPN-0.33-12.7L	30.3	12.7	(11.4)	(0.3)	0.33	0.44	0.64	Orange	50
SPN-0.25-12.7L	30.3	12.7	(11.4)	(0.3)	0.25	0.34	0.51	Red	50
SPN-0.17-9.5L	27.1	9.5	(8.5)	(0.5)	0.17	0.26	0.51	Peppermint green	25
SPN-0.12-6.5L	24.0	6.5	(5.6)	(1.1)	0.12	0.19	0.46	Gray	25

## Brush nozzle



## Surface dispensing efficiency remarkably improved

Measurement unit (mm)

Wide-area surface dispensing which is difficult with a needle type nozzle can be performed.

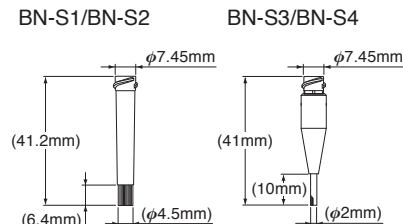
Double thread screw design allows the user to install the nozzle on the syringe securely.

Polyester fiber with high solvent resistance is used for brush, and 2 types are available, standard type and soft type.

**Brush material: Polyester fiber**

**Material: Polyethylene, others**

Model	Hardness	Brush material	Minimum Order Quantity
BN-S1	Standard	Polyester fiber	1
BN-S2	Soft type	Polyester fiber	1
BN-S3	Standard	Polyester fiber	1
BN-S4	Soft type	Polyester fiber	1



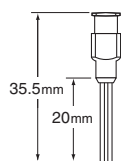
Note: The values in ( ) are for reference purposes only.

## Multi-Point Dispensing needle Good performance in simultaneous multi-point dispensing

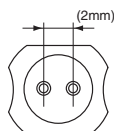
### Twin needle



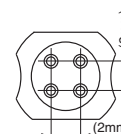
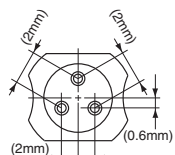
Simultaneous multi-point dispensing will shorten your tack time to half to one-fourth!  
**Needle material: Stainless steel Body material: Brass (Nickel plating)**



### 3pin needle



### 4pin needle



Measurement unit (mm)

Gauge	Needle length 20			Needle OD (φ)	Needle ID (φ)	Minimum Order Quantity
	Twin needle Model	3pin needle Model	4pin needle Model			
16	DN-16G	—	—	1.67	1.19	1
17	DN-17G	—	—	1.56	1.04	1
18	DN-18G	DN-18G-3P	—	1.22	0.86	1
19	DN-19G	DN-19G-3P	—	1.00	0.68	1
20	DN-20G	DN-20G-3P	—	0.91	0.58	1
21	DN-21G	DN-21G-3P	DN-21G-4P	0.83	0.49	1
22	DN-22G	DN-22G-3P	DN-22G-4P	0.72	0.39	1
23	DN-23G	DN-23G-3P	DN-23G-4P	0.63	0.32	1
24	DN-24G	DN-24G-3P	DN-24G-4P	0.57	0.29	1
25	DN-25G	DN-25G-3P	DN-25G-4P	0.50	0.26	1
26	DN-26G	DN-26G-3P	DN-26G-4P	0.46	0.24	1
27	DN-27G	DN-27G-3P	DN-27G-4P	0.41	0.20	1
28	DN-28G	DN-28G-3P	DN-28G-4P	0.35	0.15	1

Note: 1. Customization of products with needle pitch and length specified is available.  
 2. The values above are different from the diameters SN needle pipes.

## Nozzles with stoppers



Stopper structure introduced to maintain constant clearance. High-precision dispensing available even for unstable workpieces.

**Needle material: Stainless steel**  
**Body material: Stainless steel**  
**Stopper material: Stainless steel, others**

## Custom-made nozzles



We can design and supply speciality items, such as bending nozzles, forked nozzles, and needles with SUS guides, to match your dispensing conditions and fluids.

## Nozzle kit

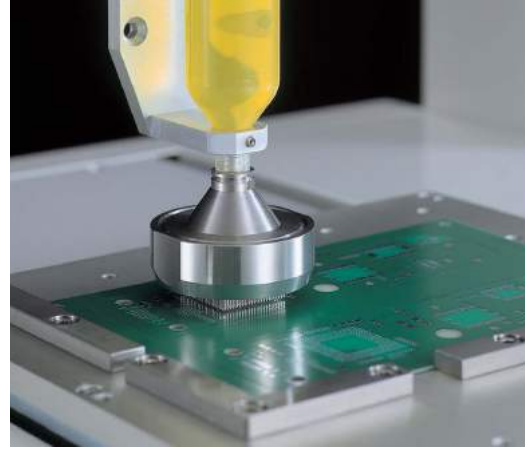


**This kit is convenient for dispensing conditioning at manufacturing and R&D sites, which contains various needles and nozzles.**

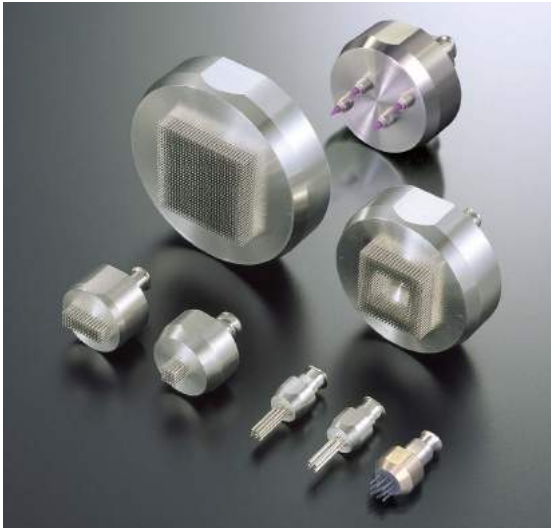
Contents of nozzle kit

- Metal nozzle
- PTFE nozzle
- Plastic needle
- PTFE nozzle with SUS guide
- Soft needle
- Curve needle
- Sharp needle™
- Double thread screwed plastic needle
- Double thread screw tapered nozzles
- Brush nozzle

Item name	Model
Nozzle kit	NK-1
Nozzle kit case	NKC-1

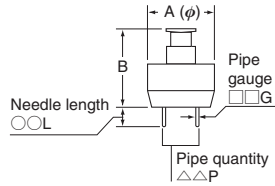


## Multi nozzles



### Customization of pin placement and length according to dispensing pattern

Simultaneous multi-point dispensing will shorten your tack time. We can design various types of nozzles for you, depending on the workpiece shapes.



Item name
Multi nozzles MN◇◇-□□G-○○L-△△P [standard specification]

\* Specify the cap size, pipe gauge, needle length, pipe quantity, and pipe layout.

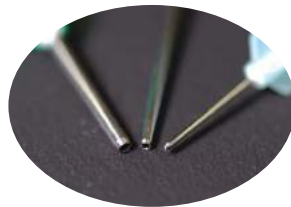
Model	Measurement unit (mm) Cap dimensions	
	A	B
MN10	10	15
MN13	13	19
MN15	15	22
MN17	17	22
MN19	19	22
MN21	21	22
MN23	23	25
MN25	25	25
MN27	27	25

Pipe gauge	Measurement unit (mm)	
	Needle OD (φ)	Needle ID (φ)
12	2.99	2.30
13	2.42	1.80
14	2.01	1.58
15	1.82	1.37
16	1.67	1.19
17	1.56	1.04
18	1.22	0.86
19	1.00	0.68
20	0.91	0.58
21	0.83	0.49
22	0.72	0.39
23	0.63	0.32
24	0.57	0.29
25	0.50	0.26
26	0.46	0.24
27	0.41	0.20
28	0.35	0.15

Note: Sizes other than those shown above are also available.

**Needle material: Stainless steel**  
**Body material: Stainless steel**

### Lineup of sharp needle specification, which has no liquid protrusion to the needle tip



Sharpening processing of needle tip

## Syringe installation section

### Standard luer lock type



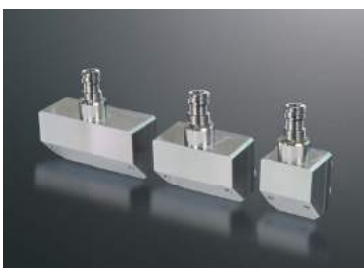
### Double threaded screw type\*



Two types of syringe attachment sections are available: the standard luer lock type and the double threaded screw type\*. The double threaded screw type\* ensures a secure installation of the needle on the syringe.

\* The double threaded screw type is available by special order.

## Slit nozzle



### Best suited for forming solid film

Takt time will be reduced by wide-area surface dispensing

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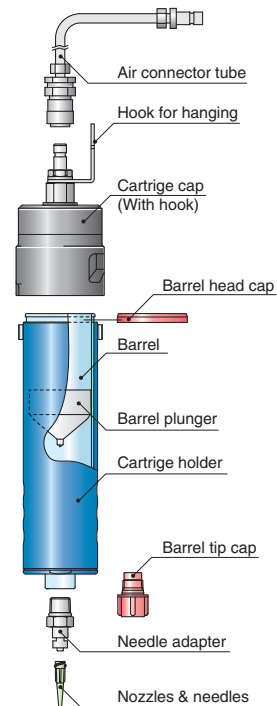
# Flexible response to customer's stepped-up needs

MUSASHI's high-performance cartridge can respond to conditions that use much higher volumes of material.

Three models are available to match your daily requirements and dispensing volume.

A cartridge is also available for directly dispensing commercially available fluids that come in a tube.

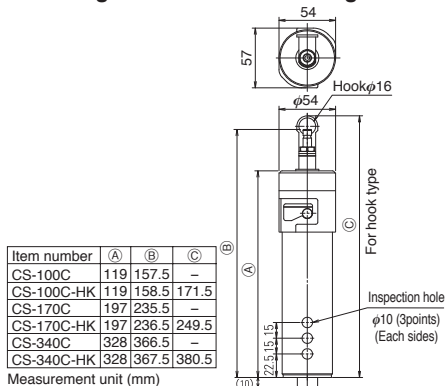
When connected to the dispensing controller, you can use it for various types of dispensing from manual jobs to automatic insert machines. You can dispense fluids cleanly, without getting them on your hands or spread around your shop.



## Barrel cartridge



### Cartridge set dimension drawings



## Suitable for dispensing larger volumes of fluid, and it is lightweight

This is suitable for large volumes of fluid. You can select the best size (100mL, 170mL, and 340mL) to match your daily requirements and dispensing volumes.

### Barrel cartridge

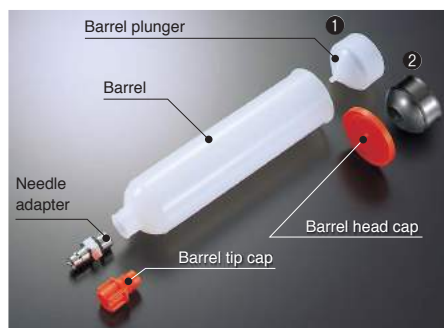
Item name	Model	Weight	Quantity
Barrel cartridge	[100mL]	CS-100C	265g
	[170mL]	CS-170C	335g
	[340mL]	CS-340C	455g
	[100mL with hook]	CS-100C-HK	275g
	[170mL with hook]	CS-170C-HK	345g
	[340mL with hook]	CS-340C-HK	465g

Note: 1. Always applied pressure: 0.5MPa or less. 2. The barrel cartridge set consists of a cartridge holder and a cartridge cap.

### Barrel cartridge components

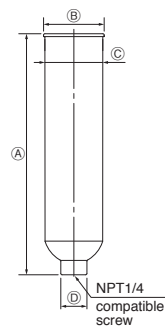
Capacity	Item name	Model	Material	Quantity
100mL	Cartridge cap	[Without hook]	CC-P-001-1	-
		[With hook]	CC-P-001-2	-
	Cartridge holder [For 100mL barrel]	CH-100C	Aluminum alloy	1
170mL	Cartridge cap	[Without hook]	CC-P-001-1	-
		[With hook]	CC-P-001-2	-
	Cartridge holder [For 170mL barrel]	CH-170C	Aluminum alloy	1
340mL	Cartridge cap	[Without hook]	CC-P-001-1	-
		[With hook]	CC-P-001-2	-
	Cartridge holder [For 340mL barrel]	CH-340C	Aluminum alloy	1

## Barrel parts



## Liquid container for cartridge type

These items are a container and a cap in which liquid is put for the barrel cartridge.



### Barrel parts

Item name	Model (former model)	Material	Quantity	Remark
[100mL type B]	PB-100B	Polyethylene	10	-
Barrel [170mL type C]	PB-170C	Polyethylene	10	
[340mL type C]	PB-340C	Polyethylene	10	
Barrel plunger	① [Type W1]	PP-W1	10	White/More
	② [Type B1]	PP-B1	10	Black/Less
Barrel head cap [Type4]	BC-4	Polyethylene	10	-
Barrel tip cap [Type4]	BP-4	Polypropylene	10	-
Needle adapter [No.12]	P-NADP-12 (NA-2V)	Brass (Nickel plated)	1	-
[No.13]	P-NADP-13 (NA-2VT)	Fluorine coated	1	

Note: For details about the needle adapter, see page 23.

### UV-block Barrel parts

Item name	Model (former model)	Material	Quantity	Remark
③ UV-block barrel [170mL type C]	PB-170CU-OR	Polypropylene	10	-
④ UV-block barrel head cap [type4]	BC-4U-B	Polyethylene	10	
⑤ UV-block barrel tip cap [type4]	BP-4U-B	Polypropylene	10	



Model	(A)	(B)	(C)	(D)
PB-100B	99.2	φ45.3	φ43	φ19.3
PB-170C	178	φ45	φ43	φ19.4
PB-170CU-OR	179	φ45	φ43	φ19.4
PB-340C	311.5	φ45	φ42.8	φ19.4

Measurement unit (mm)

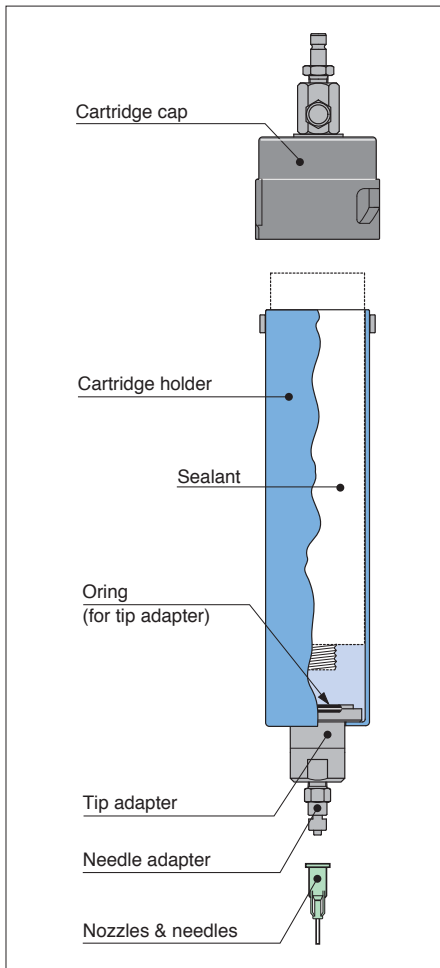
## Consumable parts in cartridge cap section

Item name	Model (former model)	Quantity	
Seal spring [cartridge cap use]	P-SSP-1 (SCS-P-001-1A)	1	
Oring receiver [cartridge cap use]	CS-P-001-1A	1	
Oring	(for cap sealing)	ORG-42-V-B-1 (CS-P-001-1B)	1
	(for barrel sealing)	ORG-34-V-B-1 (CS-P-001-1C)	1

Item name	Model (former model)	Quantity
Seal retainer [cartridge cap use]	SCS-P-001-1C	1
Screw [No.2]	P-SCW-2 (CS-P-001-1D)	1
Cartridge cap hook	SCS-P-005-1	1
Pneumatic quick joint [plug R1/8]	QP-1B	1



## Sealant cartridge



## Direct constant volume dispensing of commercially available sealant

This cartridge is used for dispensing with a commercially available 330mL sealant.

### Sealant cartridge (former: sealant cartridge set (Resin specification))

Item name	Model	Weight	Quantity
Sealant cartridge	[Type S]	SCS-330-S	570g
	[Type TB]	SCS-330-TB	570g
	[Type TR]	SCS-330-TR	570g
	[Type TS]	SCS-330-TS	580g
	[Type MI]	SCS-330-MI	580g
	[Type MO]	SCS-330-MO	570g
Sealant cartridge	[Type S with hook]	SCS-330-S-HK	580g
	[Type TB with hook]	SCS-330-TB-HK	580g
	[Type TR with hook]	SCS-330-TR-HK	580g
	[Type TS with hook]	SCS-330-TS-HK	590g
	[Type MI with hook]	SCS-330-MI-HK	590g
	[Type MO with hook]	SCS-330-MO-HK	580g

Note: 1. Always applied pressure: 0.5MPa or less.

2. The sealant cartridge consists of a cartridge cap, a cartridge holder, an O-ring, a tip adapter, and a needle adapter.

### Sealant cartridge components

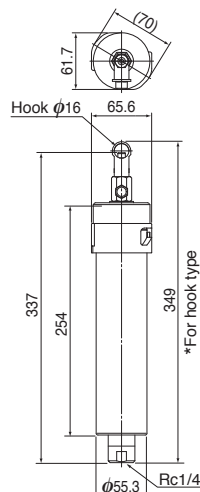
Item name	Model (former model)	Material	Quantity
Cartridge cap	[Without hook]	PBT,Polyacetal,Stainless steel, Brass,NBR,Fluororubber	1
	[With hook]		1
Cartridge holder [for sealant]	SCS-P-002-1	Aluminum alloy(anodized),Stainless steel	1
O-ring	ORG-20-V-B-1 (SCS-P-003-1)	Fluororubber	1
Tip adapter	[Type TB]	Aluminum alloy(anodized), Fluororubber	1
	[Type S]		1
	[Type TR]		1
	[Type TS]		1
	[Type MI]		1
	[Type MO]		1
Needle adapter [No. 11]	P-NADP-11 (NA-2)	Brass (Nickel plated)	1

Note: Select one of six tip adapters (TB, TR, S, TS, MI and MO) depending on the sealant to be used. Please contact our sales department.

### Consumable parts/options

Item name	Model (former model)	Material	Quantity	
Packing	[No.23]	P-PKG-23 (SCS-P-001-1B)	1	
	[No.15]	P-PKG-15 (SCS-P-004-1A)		
Seal spring [cartridge cap use]	P-SSP-1 (SCS-P-001-1A)	Stainless steel	1	
Seal retainer [cartridge cap use]	SCS-P-001-1C	Polyacetal		
O-ring	[Phi20 Material V Color B #1]	ORG-20-V-B-1 (SCS-P-003-1)		Fluororubber
	[Phi16 Material V Color B #1] only for TS	ORG-16-V-B-1 (SCS-P-004-4A)		Fluororubber
	[Phi14 Material V Color B #1] only for TS	ORG-14-V-B-1 (SCS-P-004-4B)	Fluororubber	
Cartridge cap hook*	SCS-P-005-1	-		

\*Component count: 2 pieces



## Applicable to the sealants of all manufacturers



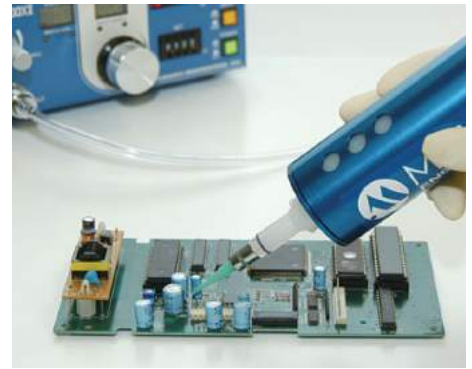
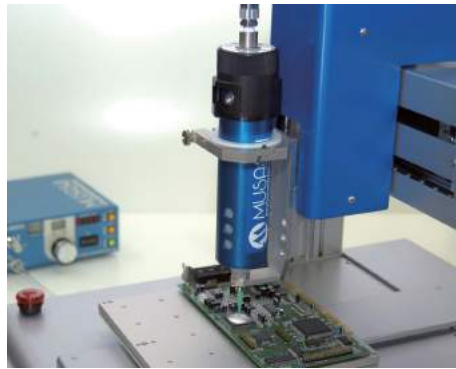
Note: This item needs to be selected in accordance with the liquid manufacturer's sealant to be used. Contact our sales department.

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**Tube cartridge**

PAT.

**Direct dispensing from commercially available tubes**

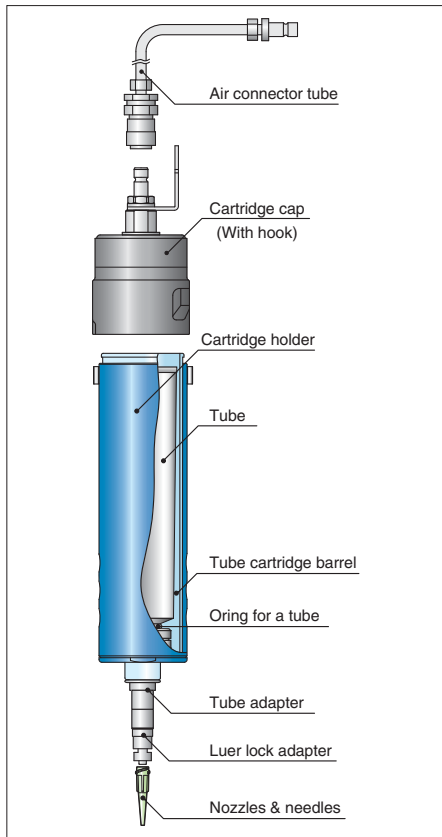


This is a cartridge that allows users to directly set a commercially available liquid tube in this cartridge and directly perform constant volume dispensing.

■ **Tube cartridge (former: tube cartridge set)**

	Item name	Model	Weight	Quantity
Tube cartridge	[100g]	CS-170CT	378g	1
	[100g type TD]	CS-170CT-TD	378g	1
	[100g with hook]	CS-170CT-HK	388g	1
	[100g type TD with hook]	CS-170CT-TD-HK	388g	1
Tube cartridge	[200g]	CS-230CT	430g	1
	[200g type TD]	CS-230CT-TD	430g	1
	[200g with hook]	CS-230CT-HK	440g	1
	[200g type TD with hook]	CS-230CT-TD-HK	440g	1

- Note: 1. Select one of two tube cartridges depending on the capacity and liquid to be used. Contact our sales department after confirming the manufacturer, liquid type, and capacity of your using liquid tube.  
 2. Always applied pressure: 0.5MPa or less.  
 3. The tube cartridge consists of a cartridge holder, a cartridge cap, a tube cartridge barrel, an Oring (for tube adapter), a tube adapter, an Oring(for luer lock adapter), and luer lock adapter.

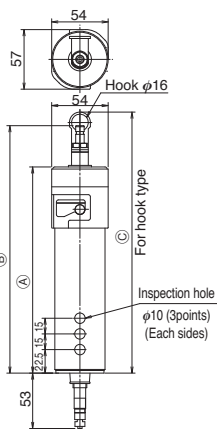


■ **Tube cartridge components**

Capacity	Item name	Model (former model)	Material	Quantity	
NET	Cartridge holder [170mL tube use]	CH-170CT	Aluminum alloy	1	
100g	Cartridge cap	[Without hook]	-	Select either one	
		[With hook]	-		
	Tube cartridge barrel [170mL] *3 *5	PB-170BT	Polyethylene	1	
	Oring for a tube *1	-	Fluororubber	1	
	Oring (for a tube adapter) [Phi12 Material V Color B #1]	ORG-12-V-B-1 (CS-BT-003)	Fluororubber	1	
	Tube adapter	[No.3] *2 *3	P-TADP-3 (CS-BT-004)	Polypropylene	Select either one
		[No.2] *2 *3	P-TADP-2 (CS-BT-009)	Polypropylene	
	Oring (for a luer lock adapter) [Phi8 Material V Color B #1]	ORG-8-V-B-1 (CS-BT-002)	Fluororubber	1	
Luer lock adapter [No.1]	P-LADP-1 (CS-BT-001)	Fluorocarbon polymers *4	1		
NET	Cartridge holder [230mL tube use]	CH-230C	Aluminum alloy	1	
200g	Cartridge cap	[Without hook]	-	Select either one	
		[With hook]	-		
	Tube cartridge barrel [230mL] *3 *5	PB-230BT	Polyethylene	1	
	Oring for a tube *1	-	Fluororubber	1	
	Oring (for a tube adapter) [Phi12 Material V Color B #1]	ORG-12-V-B-1 (CS-BT-003)	Fluororubber	1	
	Tube adapter	[No.3] *2 *3	P-TADP-3 (CS-BT-004)	Polypropylene	Select either one
		[No.2] *2 *3	P-TADP-2 (CS-BT-009)	Polypropylene	
	Oring (for a luer lock adapter) [Phi8 Material V Color B #1]	ORG-8-V-B-1 (CS-BT-002)	Fluororubber	1	
Luer lock adapter [No.1]	P-LADP-1 (CS-BT-001)	Fluorocarbon polymers *4	1		

- \*1 Since the screw shapes of the end of the tube will vary, depending on the manufacturer, the types of tube adapters and Orings for the tube will also vary. Note the manufacturer and capacity of your tubes, and then contact our sales office.  
 \*2 Either one of 2 types shall be selected regarding tube adapter depending on liquid to be used. Consult our sales division after confirming the manufacturer, liquid type, and capacity.  
 \*3 Barrels and tube adapters are consumption articles. We will recommend you have periodic replacement of them.  
 \*4 Wetted part is constructed of fluorocarbon polymers material, and luer lock part is metallic.  
 \*5 Use Musashi's 170mL type barrel for NET100g and Musashi's 230mL type barrel for NET200g.

■ **Tube cartridge dimension drawings**



Item number	(A)	(B)	(C)
CS-170CT (-TD)	197	235.5	-
CS-170CT (-TD)-HK	197	236.5	249.5
CS-230CT (-TD)	243	281.5	-
CS-230CT (-TD)-HK	243	282.5	295.5

Measurement unit (mm)

**Inserable into all manufacturers' tubes**



Note: This item needs to be selected in accordance with the liquid manufacturer's tube to be used. Contact our sales department.

# Best equipment for each scenario

By supporting customers at all levels of high precision dispensing, we can be real partners. MUSASHI makes a wide variety of items, from accessories that improve operating efficiency to parts that can connect different systems.

We respond to detailed workplace needs and follow up in areas that are not visible from the outside. MUSASHI will always provide the best item, on the cutting edge of high-precision dispensing, to satisfy our customers.

Fluid accessories

## Needle adapter



This adapter is used to connect the valves and cartridges to a needle.

Item name	Model (former model)	Applicable products	Materials that come into contact with the fluid	Connector dia.
Needle adapter	① [No.14] P-NADP-14 (NA-1)	For valves	Brass (Nickel plated)	R1/8
	② [No.15] P-NADP-15 (NA-1T)		Fluorine coated	
	③ [No.12] P-NADP-12 (NA-2V)	For barrels	Brass (Nickel plated)	R1/4
	④ [No.13] P-NADP-13 (NA-2VT)		Fluorine coated	
	⑤ [No.17] <b>NEW</b> P-NADP-17		AeroJet/MPP-1/DHG/ Volves/Syringes/ Nozzles(CPN, DN, Multi nozzle, Slit nozzle) *The mounting direction is adjustable	

Fluid accessories

## Fluid feed tube connector (former: fittings for feeding fluid)



These fittings are used to connect the fluid feed tube to containers or container parts such as valves, tanks, and cartridges. Select a fitting that matches the fluid material characteristics and the connection pattern.

Item name	Model	Shape	Tube size	Material	Material	Uses
Fluid feed tube connector	① J-R-3	Straight	OD3mm	Double thread screwed luer lock plug	Fluorocarbon polymers	For connection between syringe and tube
	② J-RT-3	Straight	OD3mm	Double thread screwed luer lock plug	Fluorocarbon polymers	For connection between nozzle and tube
	③ J-B2B-6	Straight	For $\phi 6 \times 4$	R1/4	Fluorocarbon polymers	For connection between valve or suction pipe for tank and tube
	④ J-46BS	Straight	For $\phi 6 \times 4$	R1/8	Brass	
Fluid feed elbow tube connector	⑤ J-L1B-6	Elbow	For $\phi 6 \times 4$	R1/8	Stainless steel	For connection between high pressure valve or suction pipe for tank and tube
	⑥ J-L1B-48HP	Elbow	For $\phi 8 \times 4$	R1/8	Brass	
	⑦ J-L2B-48HP	Elbow	For $\phi 8 \times 4$	R1/4	Brass	

Air accessories

## Pneumatic quick joint (former: quick joint)



These are compressed air fittings that can connect dispenser controllers, cartridges, or fluid feed tanks quickly to any kind of air line.

Item name	Model	
Pneumatic quick joint	① [Plug Rc1/8]	QP-1N
	② [Plug Rc1/4]	QP-2N
	③ [Plug R1/8]	QP-1B
	④ [Plug R1/4]	QP-2B
	⑤ [Plug for OD6xID3 barbed joint]	QP-TK1
Pneumatic quick joint	⑥ [Socket Rc1/8]	QS-1N
	⑦ [Socket Rc1/4]	QS-2N
	⑧ [Socket Rc1/4 without valve]	QS-2NN
	⑨ [Socket Rc1/4]	QS-2B
	⑩ [Socket for OD6xID3 barbed joint]	QS-TK1

Fluid accessories

## Lock type tube



An extension tube used to connect a syringe to a needle/nozzle. It is used for dispensing a liquid material at a distance from the syringe.

Item name	Model	Tube length	Material
Luer lock type tube	LT-23EX	49.8cm	Tube: Polyethylene Joint: Polyethylene

Fluid accessories

## Fluid feed tube



**Fluid feed tube**  
Special tube for transferring fluid.

Item name	Model	Length to specify
Fluid feed tube	① [OD6xID4 Nylon white]	LT-46
	② [OD6xID4 Fluorocarbon polymers white]	LT-46T
	[OD8xID4 Nylon white for high pressure]	LT-48HP
		In units of 1m

Air accessories

## Air connector tube



This tube is used for supplying pressurized air to a cartridge.

Item name	Model	Tube length
Air connector tube	[QJ plug OD6mm 1m]	CT-36P
	[QJ plug QJ socket 1m]	CT-36PS
	[QJ plug QJ socket Sigma use 1m]	CT-58PS-SIGMA
		1m

Note: This product can be ordered with length specification (in units of 0.5m). The following example shows how to specify the length. E.g.: For ordering 2.5m of an air connector tube for the cartridge: "CT-36PS-2.5M"

Air accessories

## Pneumatic joints



Used to connect any kind of air line to dispensers, cartridges, valves, or tanks.

Item name	Model
① Pneumatic barbed joint [R1/4 OD10xID8 use]	TK-2B
② Pneumatic half union [R1/4 OD6mm use]	J-U2B-6
③ Pneumatic elbow union [R1/4 OD6mm use]	J-LU2B-6

## Air accessories

### Regulator/air gauge, filter/regulator



- 1 Regulator/air gauge**  
Use to control and indicate the air pressure that is supplied to a container.
- 2 Filter/regulator**  
Use to filter the air that is supplied to a dispenser.

Item name	Model	
1 Regulator/air gauge*	[0.2MPa]	RA-2B
	[0.7MPa]	RA-7B
2 Filter/regulator	F/R-4	

\*Items marked with asterisk\* consists of a regulator, an air gauge, and a PT conversion adapter.

## Other accessories

### Handy switch



This switch is used to toggle dispensing on and off in your palm with wrapping its cord around the syringe. This switch is applicable to 3 - 70mL syringes.

Item name	Model	Cord length
Handy switch	[LS-3T type16 2pin]	LS-3T-1602P
	[LS-3T type16 4pin]	LS-3T-1604P

## Other accessories

### Dispense handgun™



Stable handy dispensing without both pneumatic source and power supply. The amount of pulling the trigger controls dispensing volume.

Item name	Model	Remarks
Dispense handgun	[5mL]	DHG-5E
	[10mL]	DHG-10E
	[30mL]	DHG-30E
	[50mL]	DHG-50E

1 piece of ratchet rod equipped

Note: This dispense handgun does not include a syringe, an MLP plunger, and a needle.

## Other accessories

### Syringe stand



This stand is used for holding the syringe during or after operation. You can select from three sizes to match your syringe.

Item name	Model	
Syringe stand	1 [5mL use type A]	SYS-1A
	2 [10mL use type A]	SYS-2A
	3 [20 - 50mL use type A]	SYS-3A
Nozzle dryness prevention cap [SYS-1/2/3A use]	SYS-CAP	

### Syringe stand for when using handy switch **NEW**

Item name	Model	Applicable nozzle	
Syringe stand	[5mL use LS-3T/2T use]	SYS-5B	
	[10mL use LS-3T/2T use]	SYS-10B	
	[20mL use LS-3T/2T use]	SYS-20B	
	[30mL use LS-3T/2T use]	SYS-30B	
	[50mL use LS-3T/2T use]	SYS-50B	
Nozzle dry reduction cap	[For SYS-B ID:7.0 with LS-3T]	SYS-CAP-7	SHN,DPN,SPN,PN,TPND,TN,BN-S3/S4
	[For SYS-B ID:8.5 with LS-3T]	SYS-CAP-8.5	SHN,DPN,SPN,PN,TPND,TN,BN-S3/S4
	[For SYS-B ID:10.0 with LS-2T/No handy switch]	SYS-CAP-10	Musashi standard nozzle (excluding CPN, MN)

## Air accessories

### Air hose



**Air hose**  
Use to carry pressurized air from the air supply to the dispenser.

Item name	Model	Length to specify
Air hose Black air hose [OD6mm ID4mm black]	AH-46	In meters

## Other accessories

### Foot switch



This switch is used to trigger and stop dispensing with your foot. Since the shape of the metal bracket varies with the dispenser, select the switch design for the type of dispenser you are using.

Item name	Model	Cord length
Foot switch	[Type16 2pin]	FS/W-2-1602P
	[Type16 4pin]	FS/W-2-1604P

## Other accessories

### Metal connector



Used to connect a dispenser controller to an external signal.

Item name	Model	
Metal connector	[Plug type16 2pin]	MC-1602P
	[Plug type16 3pin]	MC-1603P
	[Plug type16 4pin]	MC-1604P

## Other accessories

### H type stand set



This stand holds the cartridge and valve at the height you want.

#### Components

Item name	Model	(Former model)
H-type stand	HS-1	TSS-2
H-type stand unit clamp	SH-2	
H-type stand clamp holder	CL-1	

\* To use an assembly, please purchase the H type stand, unit clamp, and clamp holder.



# Tubing dispenser accessories

## Dispenser pen for tubing dispenser



This is an external input switch for the tubing dispenser (MT and MK series).

Item name	Model	Cord length
Dispenser pen [LS-NH3 type16 4pin]	LS-NH3-1604P	1m

## PTFE tube for a tubing dispenser



These fluid feed tubes are made of PTFE for dispensing fluid from a rotary tubing dispenser. A variety of tube accessories are available to let you match the fluid's viscosity and the amount being dispensed.  
Note: For UV adhesive, use PTFE tube, black, TT-□B (black tube).

### ■PTFE tube

Model	Tube OD ( $\phi$ ) mm	Tube ID ( $\phi$ ) mm	Tube length
TT-32	0.75	0.25	10m
TT-30	0.76	0.30	10m
TT-28	0.84	0.38	10m
TT-26	0.92	0.46	10m
TT-24	1.06	0.56	10m
TT-22	1.18	0.68	10m
TT-21	1.31	0.81	10m
TT-20	1.46	0.86	10m
TT-19	1.56	0.96	10m
TT-18	1.67	1.07	10m
TT-17	1.79	1.19	10m
TT-16	1.95	1.35	10m
TT-15	2.10	1.50	10m
TT-14	2.28	1.68	10m
TT-13	2.53	1.93	10m
TT-12	2.76	2.16	10m
TT-11	3.01	2.41	10m
TT-10	3.29	2.69	10m

### ■PTFE tube, black (for UV adhesive)

Model	Tube OD ( $\phi$ ) mm	Tube ID ( $\phi$ ) mm	Tube length
TT-30B	0.76	0.30	10m
TT-28B	0.84	0.38	10m
TT-26B	0.92	0.46	10m
TT-24B	1.06	0.56	10m
TT-22B	1.18	0.68	10m
TT-21B	1.31	0.81	10m
TT-20B	1.46	0.86	10m
TT-19B	1.56	0.96	10m
TT-18B	1.67	1.07	10m
TT-17B	1.79	1.19	10m
TT-16B	1.95	1.35	10m
TT-15B	2.10	1.50	10m
TT-14B*	2.28	1.68	10m
TT-13B	2.53	1.93	10m
TT-12B	2.76	2.16	10m
TT-11B	3.01	2.41	10m
TT-10B	3.29	2.69	10m

\*TT-14B cannot be used with MT-410.

### ■Dedicated tube collar/cap application chart

Item number	PTFE tube	Tube collar type	Cap
TT-32	TT-32	LS-NH3-C4	LS-NH3-TG7
			LS-NH3-TG8
			LS-NH3-TG7
			LS-NH3-TG7
		LS-NH3-C3	LS-NH3-TG6
			LS-NH3-TG5
			LS-NH3-TG4
			LS-NH3-TG4
		LS-NH3-C2	LS-NH3-TG3
			LS-NH3-TG3
			LS-NH3-TG2
			LS-NH3-TG2
LS-NH3-C1	LS-NH3-TG2		
	LS-NH3-TG2		
	LS-NH3-TG1		
	LS-NH3-TG1		



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## Reliable support in various dispensing environments

MUSASHI provides many kinds of peripheral equipment to match almost any dispensing environment, fluid material characteristic, or usage conditions, so that you can conduct dispensing operations in the ideal conditions. Our peripheral equipment controls the material's viscosity, adjusts various environmental factors (temperature & humidity), mixes filler into resin, and eliminates bubbles in the fluid sitting in the syringe. And it does all this quickly. This type of support allows you to maintain stable, high-quality dispensing.

### High precision Peltier temperature control system **PELTIER MASTER™**



### Controls fluid viscosity at a specified level by heating and cooling the material

Stable dispensing of high-viscosity liquid changing viscosity subject to environmental temperature has been achieved at high precision level. CE-marked products are also available.

	Item name	Model	Weight
① Fan type Peltier temperature control block	[Fan type Peltier 5mL syringe use]	TB-5C-P-F	200g
	[Fan type Peltier 10mL syringe use]	TB-10C-P-F	260g
	[Fan type Peltier 20mL syringe use]	TB-20C-P-F	390g
	[Fan type Peltier 30mL syringe use]	TB-30C-P-F	490g
	[Fan type Peltier 50mL syringe use]	TB-50C-P-F	610g
② Fan type Peltier temperature controller		TCU-05FII	2.2kg
③ Air type Peltier temperature control block	[Air type Peltier Left 5mL syringe use]	TB-5C-P-L	300g
	[Air type Peltier Right 5mL syringe use]	TB-5C-P-R	
	[Air type Peltier Left 10mL syringe use]	TB-10C-P-L	360g
	[Air type Peltier Right 10mL syringe use]	TB-10C-P-R	
	[Air type Peltier Left 20mL syringe use]	TB-20C-P-L	520g
	[Air type Peltier Right 20mL syringe use]	TB-20C-P-R	
	[Air type Peltier Left 30mL syringe use]	TB-30C-P-L	640g
	[Air type Peltier Right 30mL syringe use]	TB-30C-P-R	
	[Air type Peltier Left 50mL syringe use]	TB-50C-P-L	760g
	[Air type Peltier Right 50mL syringe use]	TB-50C-P-R	
④ Air type Peltier temperature controller		TCU-05II	3.8kg

Note: 1. Select one of two types of outlet directions of the AIR IN joint, right or left.  
2. A cap for Peltier temperature control block shall be ordered separately in accordance with the size of the nozzle to be used.

### Resistance bulb temperature control system **THERMO MASTER™**



### Improved temperature precision and stability in a lightweight and compact body

This unit reduces dispensing fluctuation thanks to high stability of temperature. This unit is a lightweight and compact syringe-heating temperature control system. CE-marked products are also available.

	Item name	Model	Weight
① Resistance bulb type temperature control block	[Resistance thermometer bulb type for 5mL syringe]	TB-5E-K	135g
	[Resistance thermometer bulb type for 10mL syringe]	TB-10E-K	190g
	[Resistance thermometer bulb type for 20mL syringe]	TB-20E-K	240g
	[Resistance thermometer bulb type for 30mL syringe]	TB-30E-K	280g
	[Resistance thermometer bulb type for 50mL syringe]	TB-50E-K	340g
② Resistance bulb temperature controller		TCU-02	1.04kg

Note: The cap shall be ordered separately in accordance with the size of the nozzle to be used for resistance thermometer bulb type temperature control block.

### Stirring system **MIX MASTER™**



### Stirs filler into the delivery fluid and prevents filler from precipitating out

	Item name	Model	Weight	
Mixing block MIX MASTER	[5mL syringe use]	MB-5E-02	880g	
	[10mL syringe use]	MB-10E-02	880g	
	① [20mL syringe use]	MB-20E-02	850g	
		[30mL syringe use]	MB-30E-02	860g
		[50mL syringe use]	MB-50E-02	860g
	[70mL syringe use]	MB-70E-02	870g	
	[100mL barrel use]	MB-100C-01	Approx. 1.1kg	
	② [170mL barrel use]	MB-170C-01	Approx. 1.1kg	
		[340mL barrel use]	MB-340C-01	Approx. 1.1kg
	③ [30/50/70mL CYBERJET2 use]	MB-MJETC2-3070	Approx. 1.3kg	
④ Stirring controller MIX MASTER		RMU-02	1.8kg	

Note: The weight excludes cables, syringe, and liquid material.

\* The CyberJet2 is not included in this product.

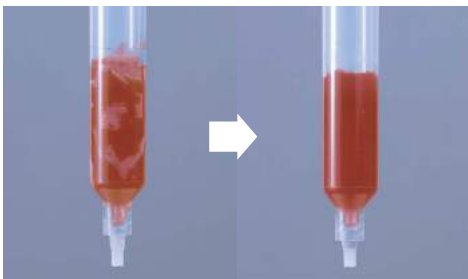


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## Syringe centrifugal bubble eliminator **AWATRON™3** Further user friendly, reliable, and speedy bubble elimination!



Before Bubble Elimination      After Bubble Elimination



Bubbles are eliminated just by placing a syringe and pressing the switch.

- Introduction of a syringe detachable mechanism with stationary holder allows for simple operation and elimination of installation failure.
- Introduction of a newly developed tip cap mounting jig has achieved reliable capping, and accordingly prevents fluid from leaking during bubble elimination.
- Introduction of a digital timer allows for detailed setting and control of bubble elimination time.

### ■ Specifications

Model	AW-20-3	AW-20-3-220V	AW-50-3	AW-50-3-220V
Timer range	1 to 600s			
Syringes capacity	1mL syringe: equipped with 4 syringes			
	3mL syringe: equipped with 4 syringes			
	5mL syringe: equipped with 4 syringes			
	10mL syringe: equipped with 4 syringes			
	20mL syringe: equipped with 4 syringes			
	—		30mL syringe: equipped with 4 syringes	
	—		50mL syringe: equipped with 4 syringes	
Power supply	AC100V 50/60Hz	AC220V or AC230V 50/60Hz	AC100V 50/60Hz	AC220V or AC230V 50/60Hz
Power consumption	165W		400W	
External dimensions	W320 × D394 × H210mm		W431 × D509 × H250mm	
Weight	Approx. 15kg		Approx. 24kg	

### ■ Transformer (option) (former: external transformer)

- If AW-20-3 or AW-50-3 is used with the voltage of other than AC100V, use one of the following transformers.

	Item name	Model
Transformer	[110V ⇒ 100V AC]	TR-110
	[117V ⇒ 100V AC]	TR-117
	[200V ⇒ 100V AC]	TR-200
	[220V ⇒ 100V AC]	TR-220
	[240V ⇒ 100V AC]	TR-240

Note: 600watts, 2-pole socket + 1 grounding  
If the power supply voltage is AC210V, use the model, TR-220.  
If the power supply voltage is AC230V, use the model, TR-240.

## Automatic weighing type syringe filling system **AUTO FILLING MASTER™** Fill syringes automatically with highly viscous fluid and high precision



- Fill syringes quickly and precisely with high viscosity fluid, including paste.
- You can fill syringes to the required volume simply and easily, just by pressing the start switch since this system weigh the fluid.
- Suitable for use with different sizes of syringes.

Note: Please contact our sales department in advance. This system needs to be customized for each kind of fluid.

## Simple syringe filling unit **FILLING MATE™** Simple filling by placing the can with the fluid directly in the pressurized container



- Cartridges can be filled with high viscosity pastes or low viscosity fluids.
- Avoids creating bubbles when filling a container with material, since bubbles may cause uneven or faulty dispensing.
- It can be used to fill all types of containers, from syringes to large volume barrels.

### ■ Specifications (tank)

Capacity	2litres
Material	Stainless steel
System	Compressed air system
Pressure	0.5MPa
Suction tube	φ6 × φ4
Oring material	Fluororubber
Fluid material output	Dispenses from the top of the tank.

## High precision dispensing valve that is an uncompromising response to the need for sophisticated dispensing equipment

Provides the high productivity, stability, reliability, durability, and maintainability that are required by uncompromising professionals. To meet all these requirements, MUSASHI has brought together all of our dispensing experience to develop these new fluid dispensing valves. They can prevent fluid drips and dispense extremely uniform doses. A variety of accessories are available to suit various dispensing system requirements, such as different dispensing applications and fluid material types.



### Needle control valve

(former: Super-small, constant-volume dispensing valve)

### MiniVal™ NCV™-17



### High-precision standard valve

- Also capable of micro-deposit dispensing liquid materials with UV and filler.
- Reduces air bubbles mixing.
- Diaphragm structure prevents liquid material entering sliding parts.
- Square shape, compact and lightweight that is ideal for use with automated equipment.
- High flow type also available with 3x liquid flow rate.



Control unit : ME-5000VT

### Specifications

	①Type17 1port	②Type17 1port OD6mm SUS pipe attached	③Type17 1port high flow	④Type17 1port high flow rate resin specification
Model	NCV-17-1P-1N	NCV-17-1P-S6	NCV-17-L-1P-2N	NCV-17-L-1P-2N-RS
Drive system	Pneumatic driven system			
Minimum dose	3μL		9μL	
Compatible viscosity	Up to 50Pa·s			
Control air supply pressure range	0.35 to 0.5MPa			
Liquid material supply pressure range	MAX. 0.5MPa			
Maximum number of cycles	680 times/min.			
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)	OD6mm Stainless pipe (fluid feed joint ordered separately)	Rc1/4 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type		
	Control air	One-touch connection for φ4 outer diameter tube (with speed controller)		
Operating temperature range	5 to 60°C			
Wetted part material	Stainless steel, Fluorine resin, Polyacetal		Stainless steel, Fluorine resin	PEEK, Fluorine resin
Weight	193g	216g	222g	149g

Note: The dispensing volume, compatible viscosity, and max. response count shown in the specifications above are only for reference.

### Needle control valve

(former: Large flow rate type needle control valve)

### MiniVal™ NCV™-17-L

### MiniVal™ NCV™-17-L-RS

High flow type



Distributor

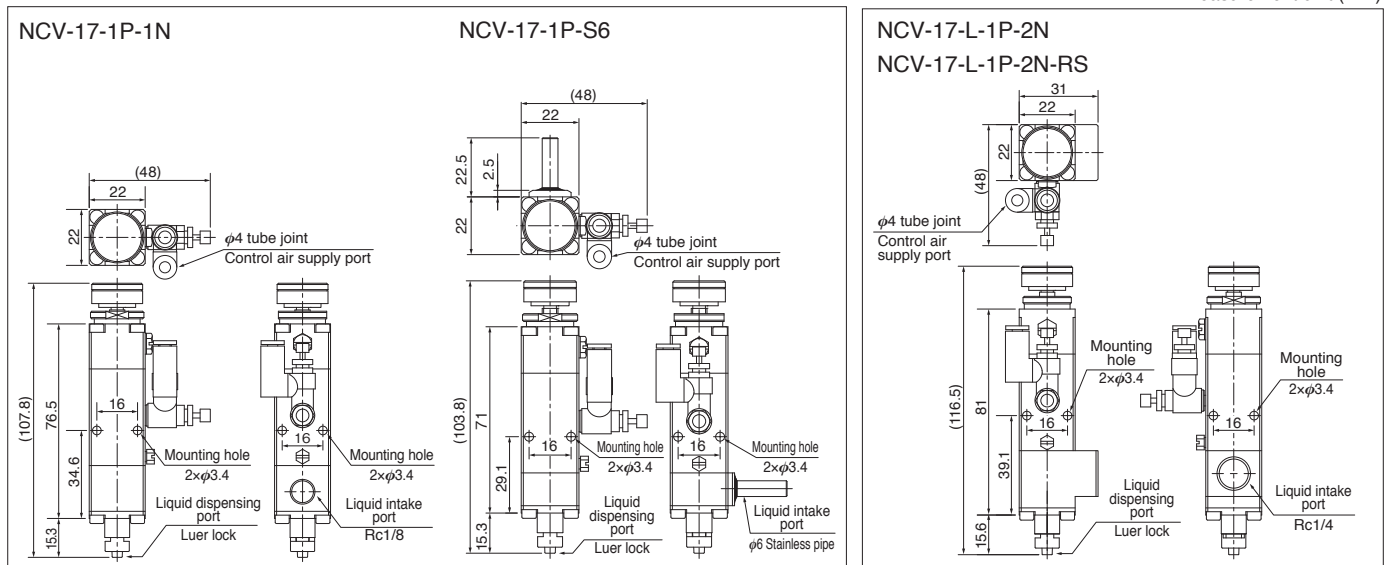
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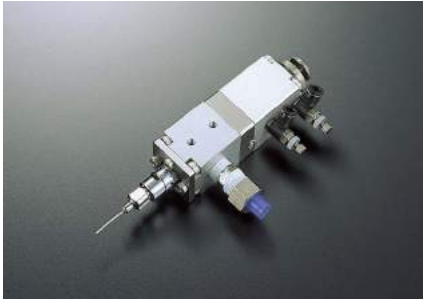
### External dimensions

Measurement unit (mm)



## Needle control valve

(former: Super-small, constant-volume dispensing valve)



- A needle control valve for use with fluids containing fillers
- Unique shape that doesn't leak and lasts a long time
- No leakage as well as long life
- Prevention of liquid filtration into sliding section provided by diaphragm structure
- Best suited for mounting on automatic machinery due to ultra-compact size, rectangular shape, and lightweight

Control unit : ME-5000VT

## MiniVal™ NCV-12s

Use these super-small, lightweight valves with fluids containing fillers

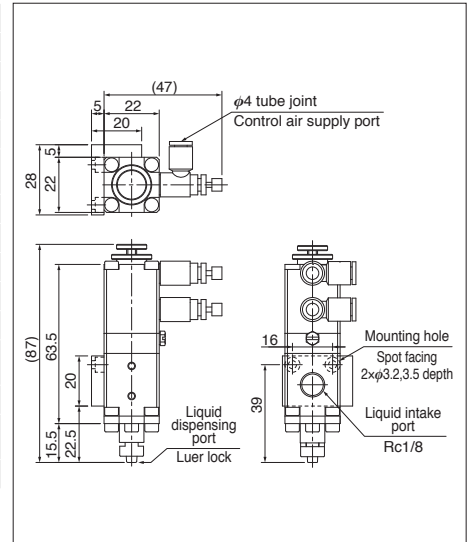
### Specifications

	Type12s 2port	
Model	NCV-12S-2P	
Drive system	Pneumatic driven system	
Minimum dose	8 $\mu$ L	
Compatible viscosity	Up to 50Pa·s	
Material types	Fluid containing filler and other low and medium viscosity fluids	
Control air supply pressure range	0.35 to 0.5MPa	
Liquid material supply pressure range	MAX. 0.5MPa	
Maximum number of cycles	640 times/min.	
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for $\phi$ 4 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	
Wetted part material	Stainless steel, Fluorine resin, Aluminum alloy (anodized)	
Weight	170g	

Note: The dispensing volume, compatible viscosity and material type, and max. response count shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



## Needle control valve

(former: Small dose dispensing valve)



- Stable dispensing of fluids containing fillers
- A single port version that can be reused easily in a syringe system
- A two port control version that is best suited for high-precision dispensing
- Valves made of fluorocarbon polymer and UV resistant material are available. They are suitable for dispensing corrosive and anaerobic fluid materials.

Control unit : ME-5000VT

## MiniVal™ NCV-10

Small and lightweight. Handles variety of fluids and applications

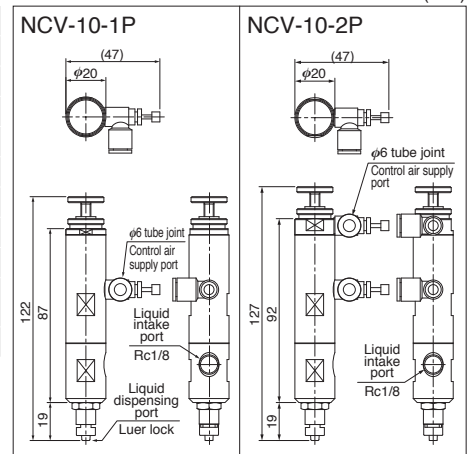
### Specifications

Model	NCV-10-1P	NCV-10-2P
Drive system	Pneumatic driven system	
Minimum dose	9 $\mu$ L	8 $\mu$ L
Compatible viscosity	Up to 50Pa·s	
Control air supply pressure range	0.35 to 0.5MPa	0.3 to 0.5MPa
Liquid material supply pressure range	MAX. 0.5MPa	
Maximum number of cycles	640 times/min.	680 times/min.
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for $\phi$ 6 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	

Note: The dispensing volume, compatible viscosity and max. response count shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)

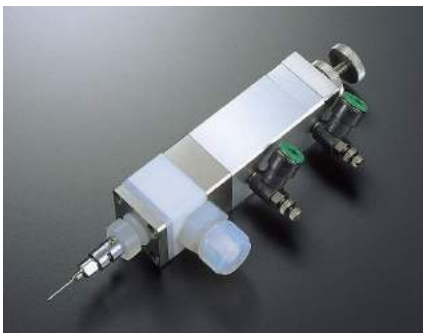


### Models

	Valve type	Model	Wetted part material	Fluid to dispense	Weight
Type10	1port	NCV-10-1P	Stainless steel, Fluorine resin, Brass, Aluminum alloy (anodized)	Any low or medium viscosity fluid	140g
	2port	NCV-10-2P			160g
Type10	1port fluorocarbon polymers	NCV-10-T-1P	Stainless steel (Fluorocarbon coated), Fluorine resin	Anaerobic material, materials containing fillers	120g
	2port fluorocarbon polymers	NCV-10-T-2P			140g
Type10	1port UV	NCV-10-U-1P	Stainless steel (Fluorocarbon coated), Fluorine resin, Polyacetal	UV materials	120g
	2port UV	NCV-10-U-2P			140g

Note: The applicable liquid materials are only for reference.

## Needle control valve



- The parts that contact the fluid are made of fluorocarbon polymer, and are suitable for dispensing fixed doses of anaerobic fluid materials.
- A needle control valve that can dispense fixed doses of fluids containing fillers.

Control unit : ME-5000VT

## NCV-7DV

Used with anaerobic materials

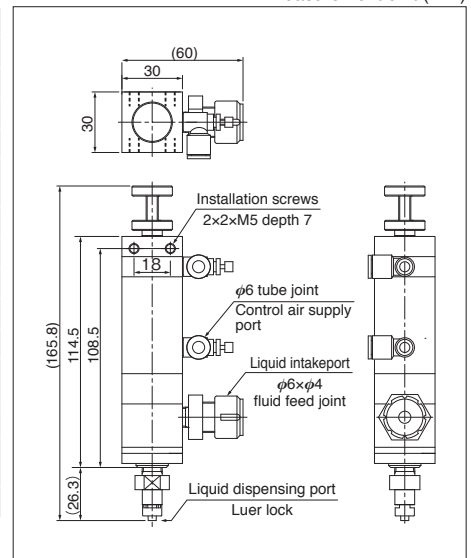
### Specifications

	Type7 2port anaerobic with NCV-7DV-25	
Model	NCV-7DV-2P	
Drive system	Pneumatic driven system	
Minimum dose	8 $\mu$ L	
Compatible viscosity	Up to 10Pa·s	
Material types	Anaerobic materials, materials containing fillers	
Control air supply pressure range	0.3 to 0.4MPa	
Liquid material supply pressure range	MAX. 0.7MPa	
Maximum number of cycles	650 times/min.	
Connector dia.	Liquid intake port	$\phi$ 6 x $\phi$ 4 fluid feed fitting
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for $\phi$ 6 outer diameter tube (with speed controller)
Operating temperature range	5 to 50°C	
Wetted part material	Fluorine resin, Fluororubber for resistance to chemicals	
Weight	450g	

Note: The dispensing volume, compatible viscosity and material type, and max. response count shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



## Piston control valve (former: Small piston control valve)

### MiniVal™ PCV-12



## The standard for preventing fluid drips and blockages

- Prevents fluid drips and blockages with suck back mechanism.
- Diaphragm structure prevents liquid material entering sliding parts.
- Square shape, compact and lightweight that is ideal for use with automated equipment.

### ■ Specifications

	Type12 2port	Type12 2port high flow
Model	PCV-12-2P	PCV-12-L-2P-2N
Drive system	Pneumatic driven system	
Minimum dose	18μL	19μL
Compatible viscosity	Up to 100Pa·s	
Control air supply pressure range	0.35 to 0.6MPa	
Liquid material supply pressure range	MAX. 0.5MPa	
Maximum number of cycles	580 times/min.	
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)   Rc1/4 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for φ4 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	
Wetted part material	Stainless steel, Fluorine resin, Brass	
Weight	220g	240g

Control unit : ME-5000VT



### MiniVal™ PCV-12-L

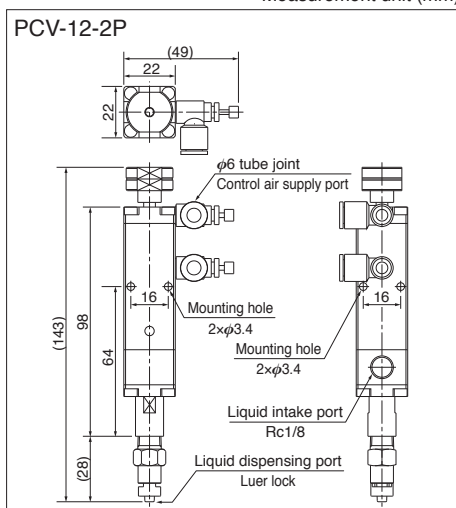
High flow type



NEW

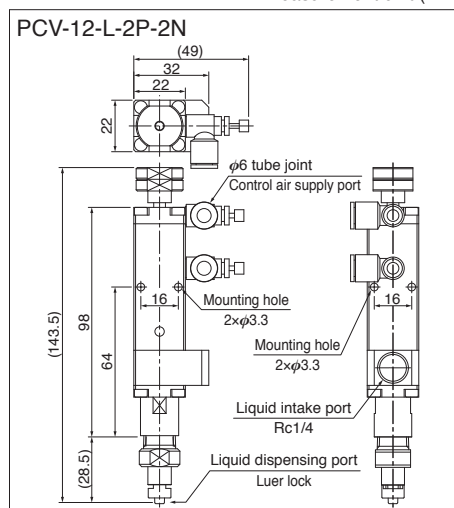
### ■ External dimensions

Measurement unit (mm)



### ■ External dimensions

Measurement unit (mm)



Note: The dispensing volume, Compatible viscosity and material type, and max. response count shown in the specifications above are only for reference.

Distributor



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## Piston control valve



### PCV-5-2P

(former: PCV-5)

Can be used with a broad range of fluid viscosity. Equipped with a pull back, drip prevention mechanism

- A piston control valve that can be used with a broad range of fluid viscosities
- Piston scroll adjusting mechanism and pull back mechanism to prevent drips

Control unit : ME-5000VT



### PCV-5-1P

Used with any viscosity fluid. Single port type

- A single port version that can be reused easily in a syringe system

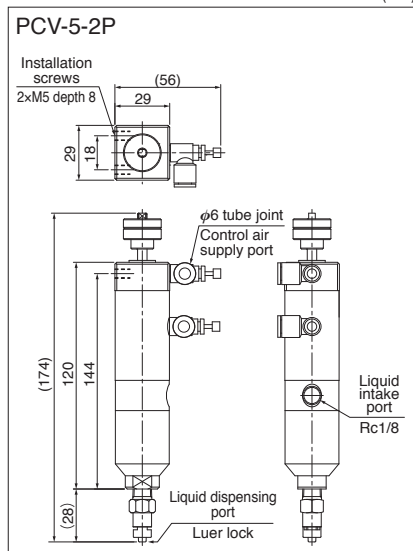
### ■ Specifications

	Type5 2port	Type5 1port
Model	PCV-5-2P	PCV-5-1P
Drive system	Pneumatic driven system	
Minimum dose	52μL	53μL
Compatible viscosity	Up to 100Pa·s	
Material types	Any viscosity fluid	
Control air supply pressure range	0.3 to 0.7MPa	
Liquid material supply pressure range	MAX. 0.7MPa	
Maximum number of cycles	570 times/min.	460 times/min.
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for φ6 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	
Wetted part material	Stainless steel, Fluorine resin, Brass	
Weight	350g	390g

Note: The dispensing volume, compatible viscosity and material type, and max. response count shown in the specifications above are only for reference.

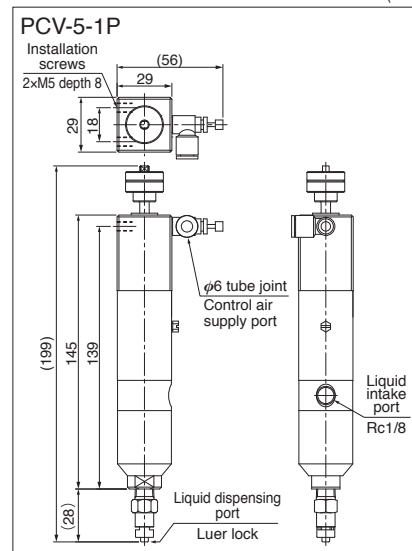
### ■ External dimensions

Measurement unit (mm)

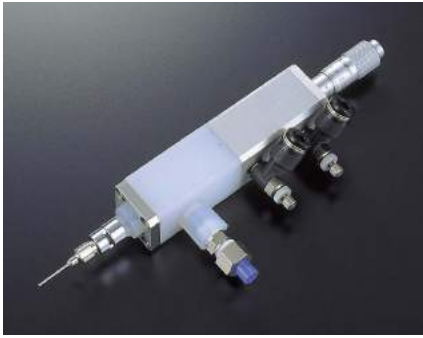


### ■ External dimensions

Measurement unit (mm)



## Plunger pump valve



- Volume measuring quantitative dispensing valve with our unique mechanism for superior sealing.
- Setting dispensing volume with micrometer is accurate and simple.
- Excellent corrosion resistance.

Control unit : ME-5000VT

## PPV™-5 Plunger pump system

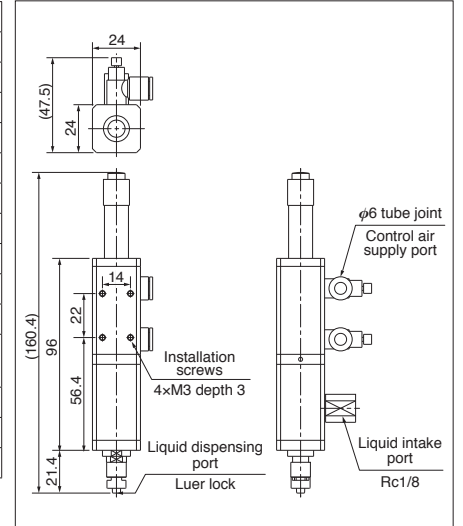
### Specifications

	Type5 2port	
Model	PPV-5-2P	
Drive system	Pneumatic driven system	
Minimum dose	1 to 90μL	
Compatible viscosity	Up to 30Pa·s	
Material types	Low and medium viscosity fluids	
Control air supply pressure range	0.05 to 0.5MPa	
Liquid material supply pressure range	MAX. 0.33MPa	
Maximum number of cycles	120 times/min.	
Connector dia.	Liquid intake port	Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for φ6 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	
Wetted part material	Stainless steel, Fluorine resin	
Weight	200g	

Note: The dispensing volume, compatible viscosity and material type, and max. response count shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



## High pressure valve



- Our unique design with high-pressure capability to prevent liquid material leaks.
- Easy maintenance.

Control unit : ME-5000VT

## HPV™-2NC Designed exclusively for high viscosity materials

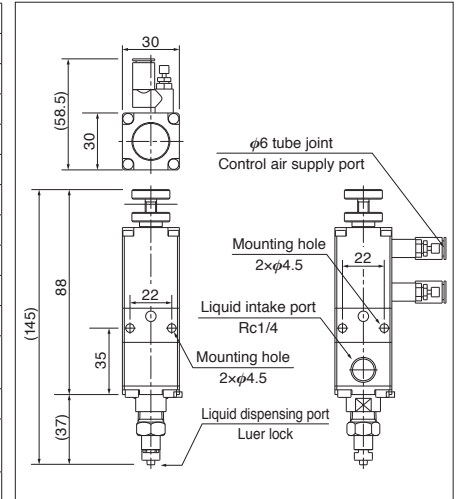
### Specifications

	Type2NC 2port	
Model	HPV-2NC-2P	
Drive system	Pneumatic driven system	
Minimum dose	10μL	
Compatible viscosity	Up to 300Pa·s	
Material types	Grease	
Control air supply pressure range	0.35 to 0.6MPa	
Liquid material supply pressure range	MAX. 20MPa	
Maximum number of cycles	500 times/min.	
Connector dia.	Liquid intake port	Rc1/4 (fluid feed joint ordered separately)
	Liquid dispensing port	Luer lock type
	Control air	One-touch connection for φ6 outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C	
Wetted part material	Stainless steel, Fluorine resin, Fluororubber, Polyethylene	
Weight	480g	

Note: The dose volumes, material types and viscosities shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



## Volume measuring type plunger pump JUSTRO™ PUMP Just measuring and dispensing, debut of precise plunger pump!



- Precise and constant-volume dispensing of low viscosity liquid. Dispensing volume from 0.003mL minimum to 250mL maximum (depending on variations)
- High-speed dispensing due to high cycle speed
- Precise liquid control achieved

Control unit : ME-5000P



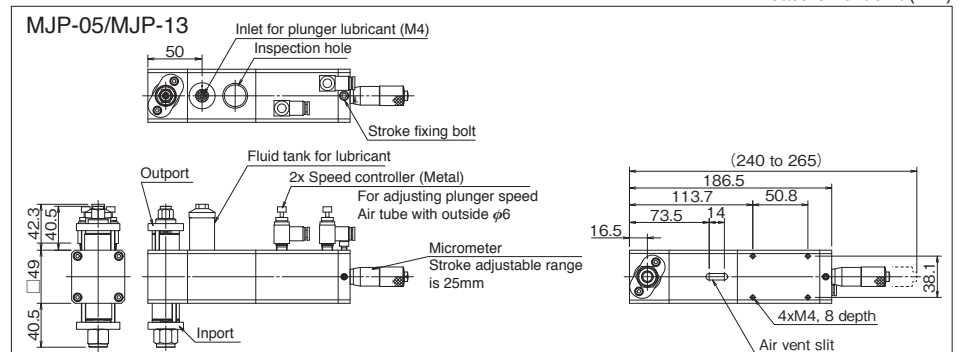
### Specifications

	05mL use	13mL use
Model	MJP-05	MJP-13
Drive system	Pneumatic driven system	
Maximum dispensing volume	5mL	13mL
Control air supply pressure range	0.35 to 0.6MPa	
Stroke adjustment method	Micrometer	
Wetted part material	Stainless steel, Fluorine resin, PEEK	
Weight	3.2kg	

Note: The dispensing volume is up to 250 mL, and many kinds of dispensing volumes are available.

### External dimensions

Measurement unit (mm)



## Coating valve

### CV-12 Achieves sharp-edged dispensing without scattering



- Precision application shape allows partial coating.
- Low flow achieves wide area, ultra-thin coating.
- Shape adjustment available at start and stop points.
- Simplified explosion-proof specifications as standard.

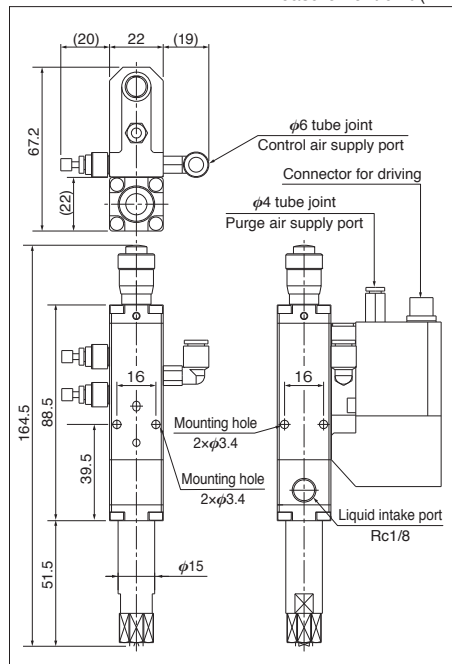
#### Specifications

	Type12
Model	CV-12
Drive system	Pneumatic driven system
Compatible viscosity	1 to 100mPa·s
Control air supply pressure range	0.35 to 0.5MPa
Liquid material supply pressure range	MAX. 0.5MPa
Connector dia.	Liquid intake port Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port Specialized nozzle
	Control air One-touch connection for $\phi 6$ outer diameter tube
	Purge air One-touch connection for $\phi 4$ outer diameter tube
Wetted part material	Stainless steel, Fluorine resin, Polyacetal, cemented carbide
Weight	360g

Control unit : ME-5000VT



#### External dimensions Measurement unit (mm)



## Coating valve

### CV-10 Ideal for dispensing thick coatings.



- Achieves wide, uniform coatings.
- Precise dispensing without scattering.
- Numerical control of valve stroke.

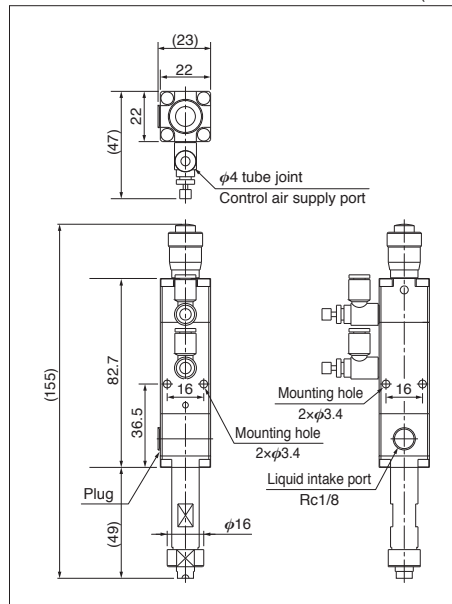
#### Specifications

	Type10 2port
Model	CV-10-2P-1N
Drive system	Pneumatic driven system
Compatible viscosity	Up to 100mPa·s (must not include filler or other solids)
Control air supply pressure range	0.35 to 0.5MPa
Liquid material supply pressure range	MAX. 0.5MPa
Connector dia.	Liquid intake port Rc1/8 (fluid feed joint ordered separately)
	Liquid dispensing port Specialized nozzle
	Control air One-touch connection for $\phi 4$ outer diameter tube (with speed controller)
Operating temperature range	5 to 60°C
Wetted part material	Stainless steel, Fluorine resin, Polyacetal, Ceramic
Weight	240g

Control unit : ME-5000VT



#### External dimensions Measurement unit (mm)





## Spray valve

(former: Twin fluid spray valve)

## SV-6 series

Compact and lightweight, applicable to all uses!



- Uniform thickness with 2 liquid material spray type.
- Low-pressure atomization prevents scattering.
- Multi-head compatibility.
- Available with wide range of spray patterns.

## SVM-6LX

Best suited for coating on inner face of cylindrical object!



- Needle-type nozzle for coating inner surfaces of cylindrical objects.
- Low-pressure atomization prevents scattering.
- Compact and lightweight enables use in confined spaces.



SVM-6LX dispensing illustration

Control unit : ME-5000SP



### Specifications

Spray pattern		Round pattern Flat pattern	Small round pattern	Round pattern	Large round pattern	Small round pattern									
Series name		SV-6		SV-6SK		SV-6R		SV-6RW		SVM-6LX					
Nozzle dia.		Pattern dimensions		Pattern dimensions		Pattern dimensions		Pattern dimensions		Pattern dimensions					
		distance	50mm*	300mm	distance	50mm*	300mm	distance	50mm*	300mm	distance	50mm*	300mm		
0.5mm	SV-6-0.5X	30	180	SV-6SK-0.5X	φ7	φ40	SV-6R-0.5X	φ10	φ55	-		-			
0.7mm		-		-		-		-		SVM-6LX		φ9	φ50		
1.0mm	SV-6-1.0X	47	280	SV-6SK-1.0X	φ12	φ70	SV-6R-1.0X	φ14	φ80	SV-6RW-1.0X	φ22	φ130	-		
1.3mm	SV-6-1.3X	59	350	-		-		SV-6R-1.3X	φ15	φ90	SV-6RW-1.3X	φ24	φ140	-	
2.0mm	SV-6-2.0X	59	350	-		-		SV-6R-2.0X	φ17	φ100	SV-6RW-2.0X	φ25	φ150	-	
Drive system		Pneumatic driven system													
Control air		0.2 to 0.5MPa													
Atomization air		Up to 0.5MPa													
Liquid materials		Up to 0.2MPa													
Connector dia.		Control air		Rp1/8						Rc1/8					
		Atomization air		Rp1/8						Rc1/8					
		Liquid materials		Rp1/8											
Wetted part material		Brass (chrome plated), Stainless steel, Fluororubber for resistance to chemicals									Brass (chrome plated), Fluorine resin, Fluoro-rubber				
Weight		285g				255g				106g					

\* Pattern dimensions at a distance of 50 mm are a guide according to the maximum pattern dimensions at 300 mm (data of water sprayed at air pressure 0.3 MPa, liquid feed pressure 0.01 MPa conditions).

### External dimensions

Measurement unit (mm)

<p><b>SV-6</b></p>	<p><b>SV-6SK</b></p>	<p><b>SV-6R</b></p>
<p><b>SV-6RW</b></p>	<p><b>SVM-6LX</b></p>	

## Needle-valve-type quantitative dispensing valve **NAV-1 series** Built-in syringe type



- Pneumatic type for high-precision dispensing.
- Excellent response and superior liquid cut-off.
- Built-in syringe type for easy maintenance.

Control unit : ME-5000VT

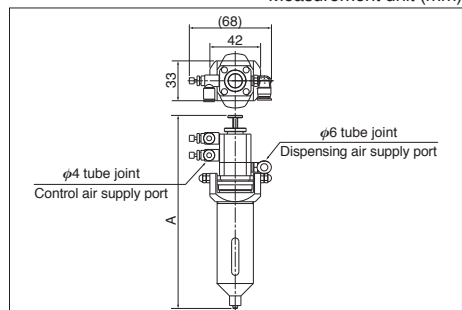
### Specifications

Model	Type1 20/30/50mL	
Drive system	Pneumatic driven system	
Minimum dose	10 $\mu$ L	
Compatible viscosity	Up to 30Pa·s	
Material types	Low and medium viscosity fluids	
Control air supply pressure range	0.3 to 0.6MPa	
Liquid material supply pressure range	MAX. 0.5MPa	
Connector dia.	Control air	One-touch connection for $\phi$ 4 outer diameter tube (with speed controller)
	Dispensing air	One-touch connection for $\phi$ 6 outer diameter tube
Operating temperature range	5 to 50 $^{\circ}$ C	
Wetted part material	Stainless steel, Polypropylene	
Weight	300g	

Note: The dose volumes, material types and viscosities shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



### Model number for each syringe capacity

Syringe capacity	Model	Dimensions A
20mL	NAV-1-20C	134
30mL	NAV-1-30C	159
50mL	NAV-1-50C	189

## Diaphragm valve



- Diaphragm valve ideal for micro-dispensing low-viscosity liquid materials.
- Wetted part made of fluorine resin, for use with highly corrosive liquids.
- Available in types with stroke adjustment mechanism (vernier dial). (DCV-2N-VT, DCV-3N)

Control unit : ME-5000VT

## DCV-2 / DCV-3 Used with low viscosity, anaerobic materials

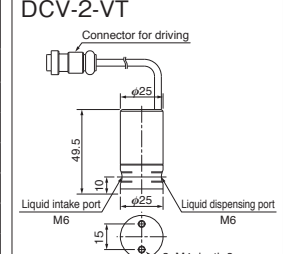
### Specifications

	Electromagnetic type	Electromagnetic type Stroke adjustment attached	Pneumatic type	Pneumatic type Stroke adjustment attached
Model	DCV-2-VT	DCV-2N-VT	DCV-3	DCV-3N
Minimum dose	10 $\mu$ L			
Compatible viscosity	Up to 1Pa·s			
Material types	Low viscosity fluids (solutions, chemicals, etc.)			
Control air supply pressure range	-		0.3 to 0.6MPa	
Liquid material supply pressure range	MAX. 0.2MPa		MAX. 0.5MPa	
Connector dia.	Liquid intake port	M6		
	Liquid dispensing port	M6		
	Control air	$\phi$ 4 inner diameter tube joint		
Operating temperature range	0 to 80 $^{\circ}$ C		-5 to 80 $^{\circ}$ C	
Wetted part material	Fluorine resin			
Weight	130g	140g	120g	140g

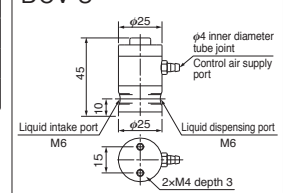
Note: 1. Fittings for the diaphragm valve are supplied separately. Please contact our sales office.  
2. The dose volumes, material types and viscosities shown in the specifications above are only for reference.

### External dimensions

Measurement unit (mm)



### DCV-3



## Fluid drip prevention valve



- The newly designed valve mechanism offers extremely high sealing performance without drip.
- Thoroughly effective in preventing contamination from bubbles or solution vapor escape
- Suitable for low and medium viscosity fluids

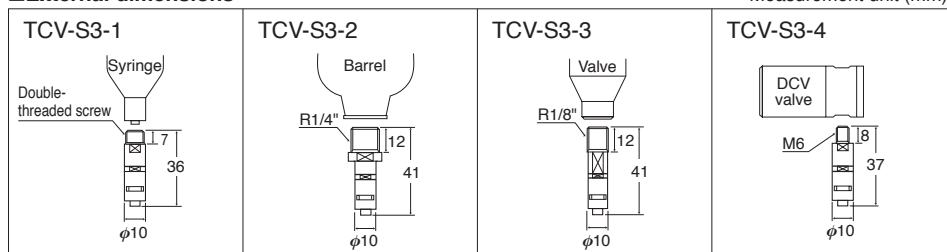
## TCV-S3 Supports complete, uniform, high-precision dispensing.

### Specifications

	<input type="checkbox"/> KP Luer lock plug	<input type="checkbox"/> KP R1/4	<input type="checkbox"/> KP R1/8	<input type="checkbox"/> KP M6
Model	TCV-S3-1- <input type="checkbox"/> KP	TCV-S3-2- <input type="checkbox"/> KP	TCV-S3-3- <input type="checkbox"/> KP	TCV-S3-4- <input type="checkbox"/> KP
Spring pressure	10, 20, 30, 50, 70, 100, 150, 200, 220kPa			
Connector dia.	Liquid intake port	Double thread screwed	R1/4	R1/8
	Liquid dispensing port	Luer lock		
Wetted part material	Stainless steel, Fluorine resin, Artificial gemstone			

### External dimensions

Measurement unit (mm)



Note: A constant volume dispensing valve is selectable from 4 types according to the shape of the inlet.

### Types of spring pressures (to set the fluid feed pressure)

Spring pressure kPa (kgf/cm $^2$ )	For syringes	For syringe, fluorocarbon coated	For barrels/valves	For valves	For DCV valves
	Model	Model	Model	Model	Model
10 (0.1)	TCV-S3-1-10KP	TCV-S3T-1-10KP	TCV-S3-2-10KP	TCV-S3-3-10KP	TCV-S3-4-10KP
20 (0.2)	TCV-S3-1-20KP	TCV-S3T-1-20KP	TCV-S3-2-20KP	TCV-S3-3-20KP	TCV-S3-4-20KP
30 (0.3)	TCV-S3-1-30KP	TCV-S3T-1-30KP	TCV-S3-2-30KP	TCV-S3-3-30KP	TCV-S3-4-30KP
50 (0.5)	TCV-S3-1-50KP	TCV-S3T-1-50KP	TCV-S3-2-50KP	TCV-S3-3-50KP	TCV-S3-4-50KP
70 (0.7)	TCV-S3-1-70KP	TCV-S3T-1-70KP	TCV-S3-2-70KP	TCV-S3-3-70KP	TCV-S3-4-70KP
100 (1.0)	TCV-S3-1-100KP	TCV-S3T-1-100KP	TCV-S3-2-100KP	TCV-S3-3-100KP	TCV-S3-4-100KP
150 (1.5)	TCV-S3-1-150KP	TCV-S3T-1-150KP	TCV-S3-2-150KP	TCV-S3-3-150KP	TCV-S3-4-150KP
200 (2.0)	TCV-S3-1-200KP	TCV-S3T-1-200KP	TCV-S3-2-200KP	TCV-S3-3-200KP	TCV-S3-4-200KP
220 (2.2)	TCV-S3-1-220KP	TCV-S3T-1-220KP	TCV-S3-2-220KP	TCV-S3-3-220KP	TCV-S3-4-220KP

Note: Select the spring pressure after taking into account the fluid dispensing pressure and the fluid drip conditions.

## Valve controller



### VALVE MASTER™ ME-5000VT

#### Debut of digitally controlled valve controller at a high-precision level

- Elimination of dispensing volume fluctuation achieved by improved pressure stability
- User-friendly operability and high repeatability resulting from digital control
- Dispensing conditions centrally controllable by the controller
- Dispensing monitorable resulting from improved external interface, perfectly suited to mount on other equipment
- CE Marking certified, EU RoHS compliant.

#### ■Specifications

Model		ME-5000VT
Control system		Electro/pneumatic system
Pressure setting range	Fluid feed pressure	0.005 to 0.700MPa
	Valve actuation pressure	0.200 to 0.700MPa
Time setting range of liquid valve opening		0.01 to 99.99s 0.010 to 9.999s 0.1 to 999.9s
External Input/output signal	Input	Dispense Dispensing mode switching
	Output	Dispensing completion In-dispensing Low fluid feed pressure Low valve actuation pressure Dispensing mode Power on
Rated power supply and frequency		AC100-240V, 50/60Hz
Power consumption		12W
External dimensions		W280xD247xH122mm
Weight		4.3kg



## Spray valve controller



### SPRAY MASTER™ ME-5000SP

#### Birth of two-fluid spray valve controller with high-precision digital control

- Elimination of dispensing volume fluctuation achieved by improved pressure stability
- User-friendly operability and high repeatability resulting from digital control
- Dispensing conditions centrally controllable by the controller
- Dispensing monitorable resulting from improved external interface, perfectly suited to mount on other equipment
- CE Marking certified, EU RoHS compliant.

#### ■Specifications

Model		ME-5000SP
Control system		Electro/pneumatic system
Pressure setting range	Fluid feed pressure	0.010 to 0.700MPa
	Valve actuation pressure	0.200 to 0.700MPa
	Blow pressure	0.010 to 0.700MPa
Time setting range of liquid valve opening		0.01 to 99.99s 0.010 to 9.999s 0.1 to 999.9s
Blow time setting range	Before valve actuation	0.000 to 9.999s
	After valve actuation	0.000 to 9.999s
External Input/output signal	Input	Dispense Dispensing mode switching
	Output	Dispensing completion In-dispensing Pressurizing Low fluid feed pressure Low valve actuation pressure Low blow pressure Dispensing mode Power on
Rated power supply and frequency		AC100-240V, 50/60Hz
Power consumption		32W
External dimensions		W340xD245xH121mm
Weight		5.8kg



## Pump controller



### PUMP MASTER ME-5000P

#### For JUSTRO PUMP

- CE Marking certified, EU RoHS compliant.

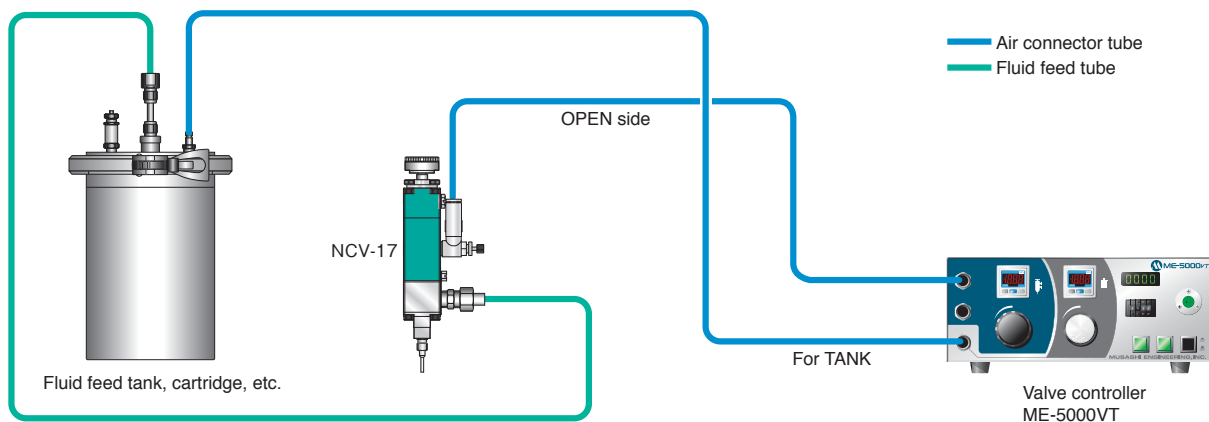
#### ■Specifications

Model		ME-5000P
Control system		Electro/pneumatic system
Valve actuation pressure setting range		0.200 to 0.700MPa
Time setting range of liquid valve opening		0.010 to 9.999s 0.01 to 99.99s 0.1 to 999.9s 1 to 9999s
External Input/output signal	Input	Dispense
	Output	Dispensing completion
Rated power supply and frequency		AC100-240V 50/60Hz
Power consumption		5W
External dimensions		W175xD175xH108mm
Weight		2.0kg

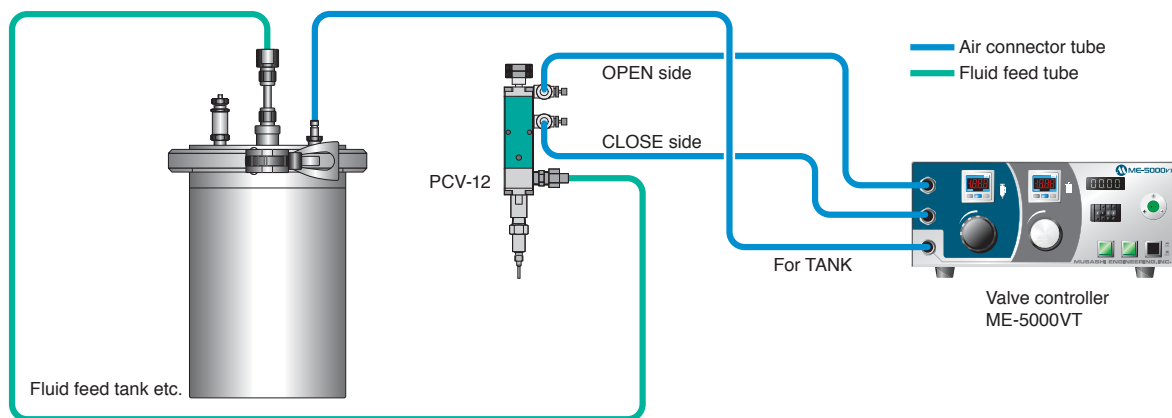


## Configuration diagram of the valve and tank system

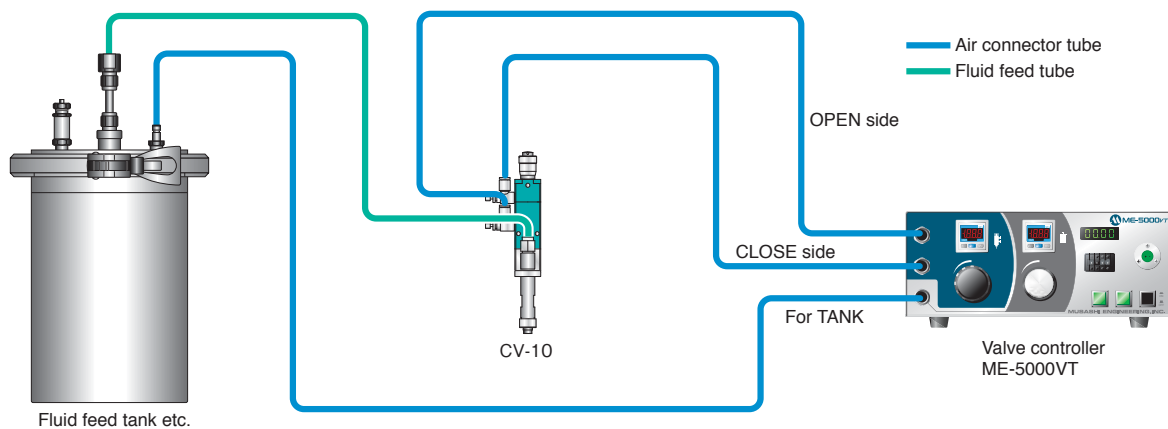
### ■ Super-small, constant-volume dispensing valve MiniVal NCV-17 Block diagram



### ■ Piston control valve MiniVal PCV-12

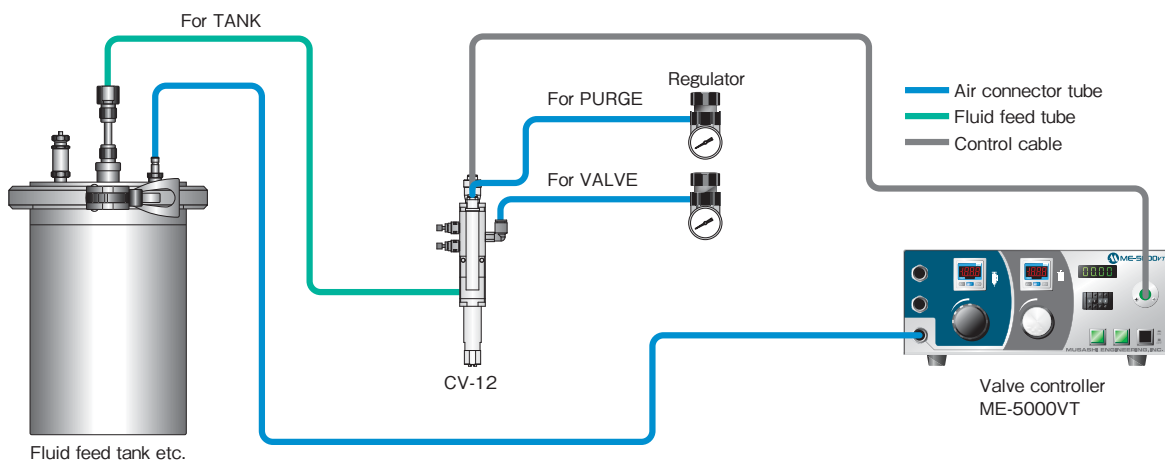


### ■ Coating valve CV-10

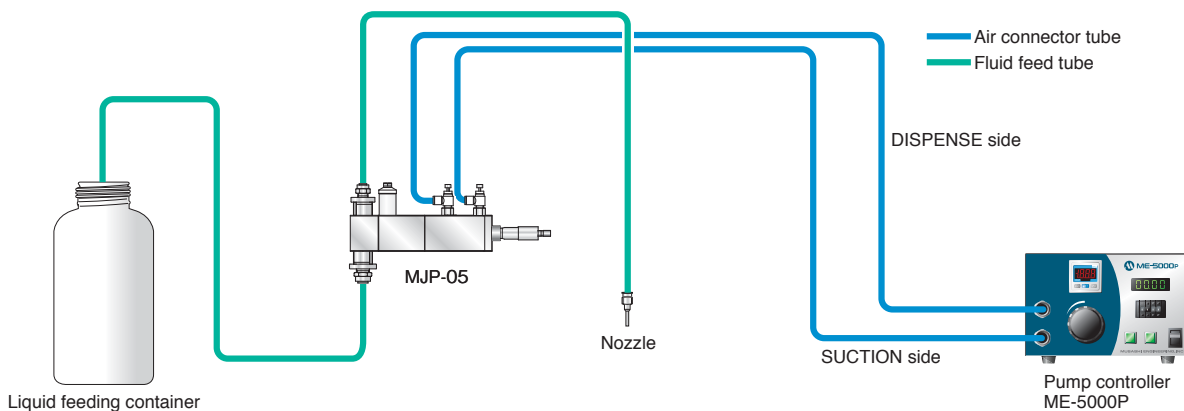


## Configuration diagram of the valve and tank system

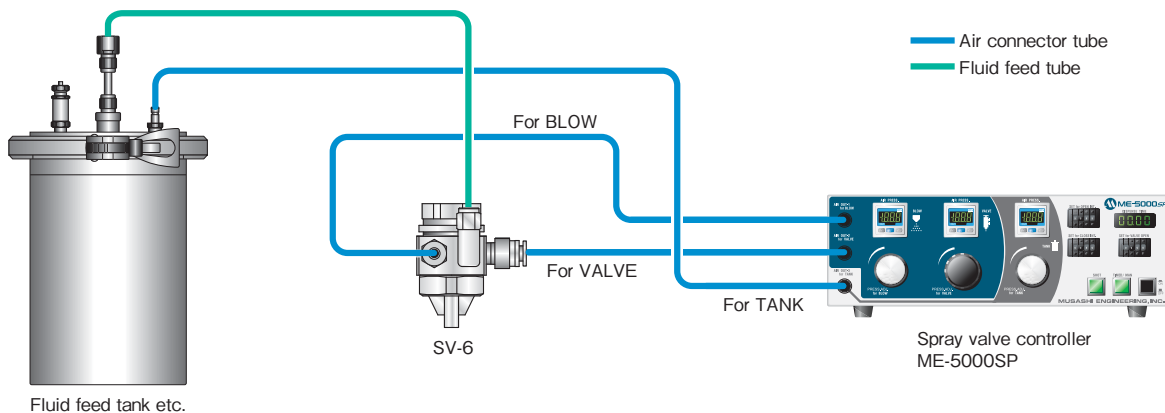
### ■ Coating valve CV-12



### ■ Volume measuring type plunger pump JUSTRO PUMP MJP-05



### ■ Spray valve SV-6



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# Design a large capacity dispensing system any way you like, using the tank best suited to your needs

Our fluid feed tanks let you dispense large amounts of material efficiently.

Three models are available: Safety lock tank, One-touch tank (quick-connect tank) and Gallon tank for coping with a wide range of fluid viscosities, characteristics, and applications.

You can select the tank which matches your daily requirements best from various types and sizes of tanks you pour into directly or tanks that hold an internal container, from 0.5 to 38.5 liters in capacity.

## Fluid feed tank necessary component

Select the following components for a fluid feed tank and specify the specifications.

... Optional accessories

Note: Gallon tank differs to the specifications below. Contact MUSASHI sales for more details

### 6 Fluid feed tube connector

Select "size" and "material".  
OD4/6/8/10/12, Stainless steel/ Fluorine resin

### 4 Through connector/Suction pipe

Select the "size" of the through connector or the "size and tip shape" of the suction pipe.

- ① Through connector, OD6/8/10/12
- ② Suction pipe, OD6/8/10/12, flat tip  
OD6/8/10/12, tip cut 45°

### 3 Safety valve

Select "max. setting pressure" (0.5MPa at standard).

- ① 0.5MPa
- ② 0.2MPa

### 2 Oring for lid

Select "material" (fluororubber at standard).

- ① Fluororubber (former: Viton)
- ② Silicone rubber
- ③ Nitrile rubber
- ④ Butyl rubber
- ⑤ Fluorine resin (former: PTFE)  
SST/OTT only

### 1 Tank body

Select "type" and "size".

- ① SST 1.7/2.2/5.5/6.2/12.7/20.3/38.5L
- ② SOT 4.6/5.6/6.3/12.7/21.3L
- ③ OTT 1/2/3/5/10/20/30L

### 7 Fluid feed tube

Select "size", "length", "material", "color", and "for high pressure".  
OD4/6/8/10/12, Fluorine resin/PFA/Nylon/  
Silicone White/Black/Transparency, for high pressure

### 5 Air hose set

Select the "size" of the pneumatic half union and the "size and length" of the air hose. (ø6 x ø4 air hose, 2m at standard)

- ① Half union OD6/8/10/12mm
- ② Air hose ø6 x ø4 2/5/10m  
ø8 x ø5 2/5/10m

### 8 Regulator/Air gauge with quick joints

Select "max. setting pressure"

- ① 0.2MPa
- ② 0.7MPa

### 9 Internal container

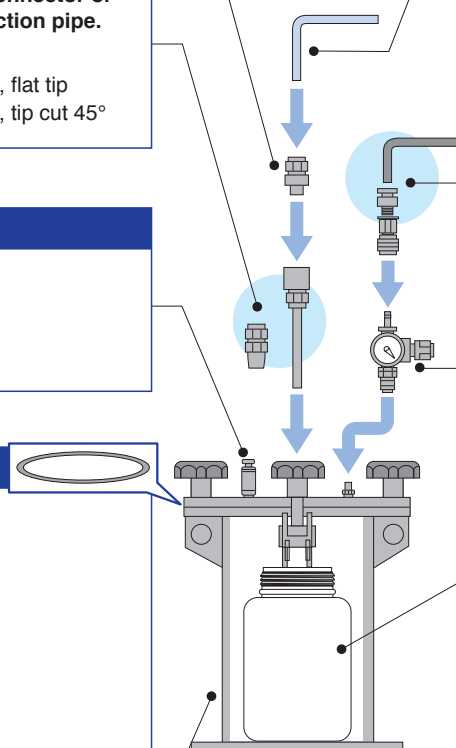
Select "size". Capacity : 0.5/1/2/3/5/10/20L

### 10 Piston for internal container (1kg use)

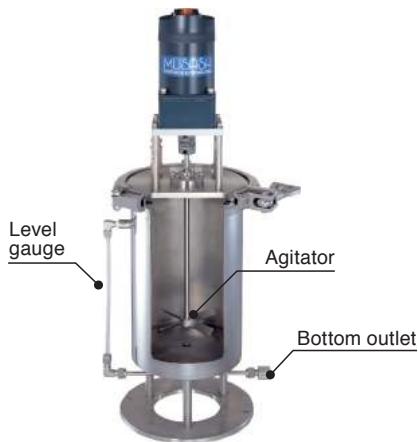
Select when using a grease can or the like as an internal container.

### 11 Other special order options

Specify model from the above tank machining list.



# Full lineup of tank options



Temperature controller



Piston



Inspection hole



Fluid feed tube connector



## Processed tank list

A tank can be selected depending on materials to be used, capacity, and other conditions.

Model	Direct entry type				Internal container type	
	SST	SOT	OTT	GAT	SST	SOT
Standard option	Change of Oring material					
	Change of suction pipe diameter			Change of suction pipe diameter		
Available as special order	Temperature control spec.					
	Agitation spec.			Agitation spec.		
	Vacuum spec.			Vacuum spec.		
	Piston			Piston		
	Level sensor			Level sensor		
	Change or add material air supply/outlet positions			Change or add material air supply/outlet positions		
	Inspection hole (cover)			Inspection hole (cover)		
	Inspection hole (main body)			Inspection hole (main body)		
	Level gauge			Level gauge		
	Bottom outlet			Bottom outlet		
	Fluorine resin coated			Fluorine resin coated		
Electrolytic polishing			Electrolytic polishing			

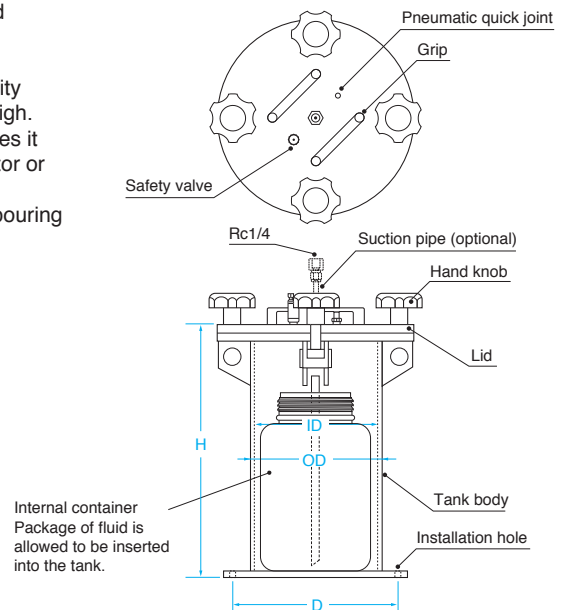
Note: The chart above indicates option item availability for each item independently. Some combinations of optional items may not be available. Contact MUSASHI sales for more information

## Safety lock tank



- Musashi original tank for excellent versatility and designed for safety.
- This tank can handle materials at any viscosity from very low to very high.
- The wide opening makes it easy to install an agitator or similar device.
- Can be used in direct pouring or internal container arrangements.
- Customizable.

### Part names and external dimensions



### Safety lock tank

Capacity (litre)	Model	External dimensions (mm)				Installation hole pitch (mm)	Installation hole diameter (mm)	Weight (kg)	Material	Pressure	Accessories
		H	ID	OD	D						
1.7	SST-1.7L	207	φ110	φ114	150	4 - φ9	4.2	Stainless steel	0.5MPa	<ul style="list-style-type: none"> <li>• Oring (Fluororubber)</li> <li>• Safety valve *</li> <li>• Pneumatic quick joint</li> </ul>	
2.2	SST-2.2L	257	φ110	φ114	150	4 - φ9	4.5				
5.5	SST-5.5L	309	φ158	φ165	200	4 - φ9	11.5				
6.2	SST-6.2L	349	φ158	φ165	200	4 - φ9	12.0				
12.7	SST-12.7L	411	φ208	φ216	260	4 - φ11	25.6				
20.3	SST-20.3L	443	φ254	φ267	310	4 - φ11	42.4				
38.5	SST-38.5L	465	φ343	φ356	400	4 - φ11	69.0				

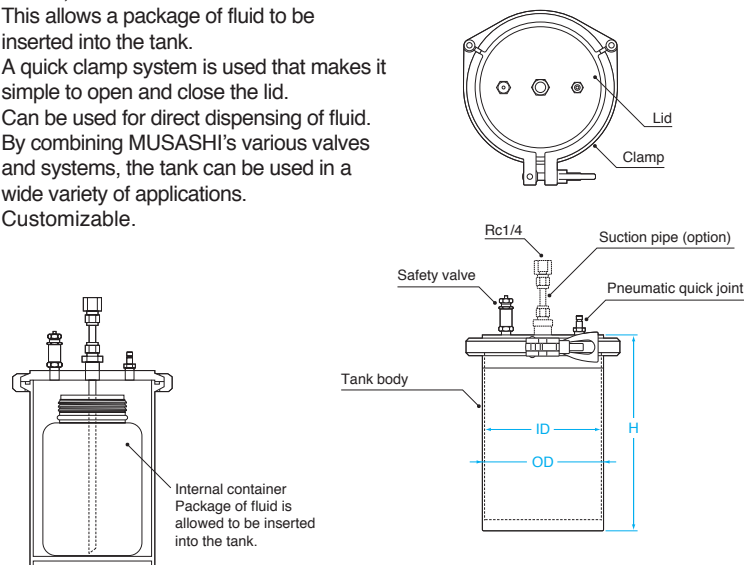
\* The safety valve pressure is set at 0.2/0.5MPa.

## Straight one touch tank



- The sides of the tank are straight from the tank opening to its bottom, and the bottom is flat. This allows a package of fluid to be inserted into the tank.
- A quick clamp system is used that makes it simple to open and close the lid.
- Can be used for direct dispensing of fluid.
- By combining MUSASHI's various valves and systems, the tank can be used in a wide variety of applications.
- Customizable.

### Part names and external dimensions



### Straight one touch tank

Capacity (litre)	Model	External dimensions (mm)			Weight (kg)	Material	Pressure	Standard accessories
		H	ID	OD				
4.6	SOT-4.6L	270	φ159	φ165	8.7	Stainless steel	0.5MPa	<ul style="list-style-type: none"> <li>• Oring (Fluororubber)</li> <li>• Safety valve *</li> <li>• Pneumatic quick joint</li> </ul>
5.6	SOT-5.6L	320	φ159	φ165	9.3			
6.3	SOT-6.3L	360	φ159	φ165	9.7			
12.7	SOT-12.7L	417	φ208	φ216	17.8			
21.3	SOT-21.3L	448	φ259	φ267	25.8			

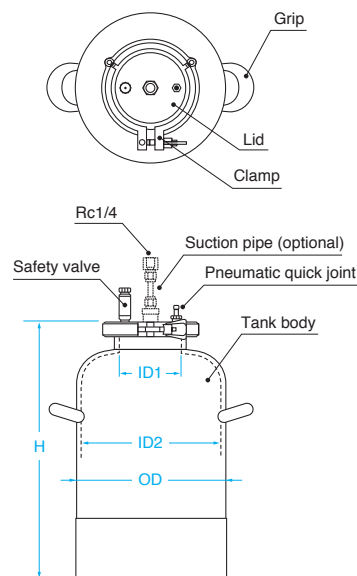
\* The safety valve pressure is set at 0.2/0.5MPa.

## One touch tank



- It has a clamp type lid which allows you to open and close it easily.
- Can be used for a wide range of fluids from low-to high-viscosity materials.
- These are direct pour-in type tanks.
- Customizable.

### Part names and external dimensions



Note: Handles are not installed on models OTT-1L to OTT-5L.

### One touch tank

Capacity (litre)	Model	External dimensions (mm)				Weight (kg)	Material	Pressure	Standard accessories
		H	ID1	ID2	OD				
1	OTT-1L	160	φ108	φ108	φ111	2.75	Stainless steel	0.5MPa	<ul style="list-style-type: none"> <li>• Oring (Fluororubber)</li> <li>• Safety valve *</li> <li>• Pneumatic quick joint</li> </ul>
2	OTT-2L	280	φ108	φ108	φ111	3.2			
3	OTT-3L	280	φ108	φ150	φ153	3.7			
5	OTT-5L	310	φ108	φ180	φ183	4.2			
10	OTT-10L	400	φ108	φ230	φ233	6.25			
20	OTT-20L	470	φ108	φ280	φ284	9.7			
30	OTT-30L	505	φ108	φ330	φ334	11.4			

\* The safety valve pressure is set at 0.2/0.5MPa.

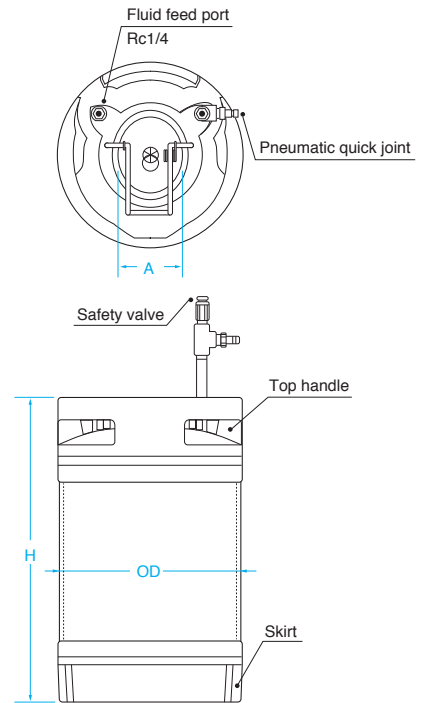


## Gallon tank



- Simple tank that is designed specifically for pouring fluid in.
- Suitable for low pressure feeding of low to medium viscosity fluid.
- Lightweight and easy to move.
- The safety design keeps the lid from being opened when under pressure.

### Part names and external dimensions



### Gallon tank

Capacity	Model	External dimensions (mm)			Weight (kg)	Material	Pressure	Standard accessories
		H	OD	A				
3gallon (Approx. 11L)	GAT-3G	378	φ228	82	3.7	Material of wetted parts: Stainless steel PTFE	0.2MPa	<ul style="list-style-type: none"> <li>• Oring (Fluororubber)</li> <li>• Safety valve *</li> <li>• Pneumatic quick joint</li> </ul>
5gallon (Approx. 19L)	GAT-5G	565	φ228	82	4.3			

\* The safety valve pressure is set at 0.2MPa.

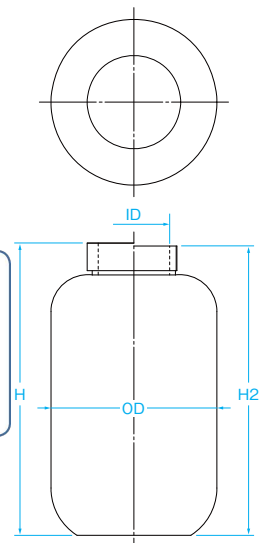
## Internal container

(former: Internal container (inside the tank))



- Since the fluid does not touch the tank directly, the tank can always be kept clean.
- Useful for storing different types of fluids inside a tank.

### External dimensions



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### Internal container

Capacity (litre)	Model	External dimensions (mm)				Material
		With outer lid	Without outer lid	Outside diameter of body	Inside diameter of opening	
		H	H2	OD	ID	
0.5	SBP-0.5L-01	151	146	φ78	φ43.5	Lid :HDPE Internal lid : LDPE Container : HDPE
1	SBP-1L-01	187.5	184	φ101	φ43.6	
2	SBP-2L-01	240	234.5	φ126	φ75	
3	SBP-3L-01	271	267.5	φ142.5	φ74.5	
5	SBP-5L-01	303	300	φ172	φ74	
10	SBP-10L-01	398	383.5	φ217	φ96.6	
20	SBP-20L	420	415	φ304	φ96	

Note: The internal container must be inserted inside a safety lock tank or straight one touch tank series before being used (pressurized).