

# Syringe parts configuration table

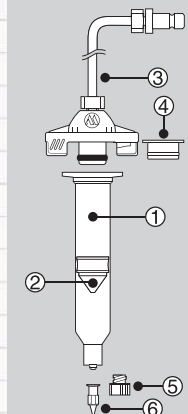
No.	Item name	Capacity	1mL	3mL	5mL	10mL	20mL	30mL	50mL	70mL	100mL		
①	Clear syringes	Without graduations	F-type <b>NEW</b>	—	—	—	—	PSY-20F	PSY-30F	PSY-50F	PSY-70F	—	
			E-type	—	PSY-3E	PSY-5E	PSY-10E	—	—	—	—	PSY-100E	
		With graduations	F-type <b>NEW</b>	—	—	—	—	PSY-20F-M	PSY-30F-M	PSY-50F-M	PSY-70F-M	—	—
			E-type	PSY-1E2-M	PSY-3E-M	PSY-5E-M	PSY-10E-M	—	—	—	—	—	—
②	UV-block syringes	Without graduations	F-type <b>NEW</b>	—	—	—	—	PSY-20FU-OR	PSY-30FU-OR	PSY-50FU-OR	PSY-70FU-OR	—	
			E-type	—	PSY-3EU-OR	PSY-5EU-OR	PSY-10EU-OR	—	—	—	—	<b>NEW</b> PSY-100EU-OR	
		With graduations	F-type <b>NEW</b>	—	—	—	—	PSY-20FU-OR-M	PSY-30FU-OR-M	PSY-50FU-OR-M	PSY-70FU-OR-M	—	
			E-type	—	PSY-3EU-OR-M	PSY-5EU-OR-M	PSY-10EU-OR-M	—	—	—	—	—	
③	Float wiper plunger	FLP-1E	FLP-3E	FLP-5E	FLP-10E	FLP-50E		FLP-100E		<b>NEW</b>			
	Miracle wiper plunger	—	—	MLP-R-5E	MLP-R-10E	MLP-R-50E		—		—			
				MLP-B-5E	MLP-B-10E	MLP-B-50E		—		—			
MLP-5E				MLP-10E	MLP-50E		—		—				
④	Adapter tube <b>NEW</b> (With stopper)	AT-1E <sup>*1</sup>	AT-3E-H-1.0M	AT-5E-H-1.0M	AT-10E-H-1.0M	AT-50E-H-1.0M		AT-100E <sup>*1</sup>		—			
	O-ring for Adapter tube <sup>*2</sup> (Fluororubber)	ORG-15-V-B-1	ORG-6-V-B-1	ORG-9-V-B-1	ORG-11-V-B-1	ORG-18-V-B-1		ORG-24-V-B-1		—			
⑤	Syringe head cap	HC-1E-H	HC-3E	HC-5E	HC-10C	HC-50E		HC-100E		—			
⑥	Syringe tip cap	NC-3E (normal type), NC-7E (Double thread screwed knurled type)											
⑥	Nozzle	non UV block	<ul style="list-style-type: none"> <li>•FN series (Super fine nozzle)</li> <li>•DPN series (Double thread screwed plastic needle)</li> <li>•SPN series (Sharp needle)</li> <li>•CPN series (Curve needle)</li> </ul>				<ul style="list-style-type: none"> <li>•PN series (Plastic needle)</li> <li>•PPN series (Soft needle)</li> <li>•TN series (PTFE nozzle, PTFE nozzle with an SUS guide)</li> <li>•BN series (Brush nozzle)</li> </ul>						
		UV block	<ul style="list-style-type: none"> <li>•SHN series (High-precision solid nozzle)</li> <li>•HN series (Precision nozzle)</li> <li>•MN series (Multi nozzle)</li> <li>•SNA series (Metal needle)</li> </ul>				<ul style="list-style-type: none"> <li>•DN series (Twin needle)</li> <li>•TPND series (Double thread screw tapered nozzle)</li> <li>•TN series (PTFE nozzle)</li> <li>•Slit nozzle</li> </ul>						

Note: \*1. The products, AT-1E and AT-100E are not equipped with a stopper.  
\*2. Other materials of o-ring are below; silicone rubber, NBR and perfluoroelastomer.



# Dispenser Accessories Quick Reference

# Nozzles & Needles



## Nozzles & Needles

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.

### SHN Series

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

### FN Series

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

Body material: Brass (Nickel plated)  
Needle material: Stainless steel

### SNA Series

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)

### TPND Series

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

Nozzle material: Polyethylene

### PN Series

These are economical, disposable needles.

Needle material: Stainless steel  
Body material: Polycatal

### DPN Series

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

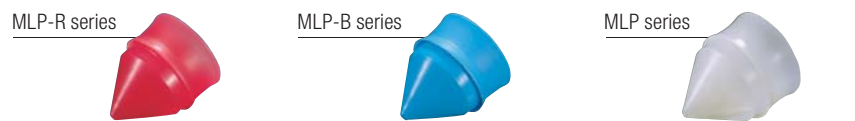
## Plunger

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

### Float wiper plunger



### Miracle wiper plunger



High-speed high-precision  
More

Smoothness between plunger and syringe

Special wiping feature  
Less



<http://musashi-engineering.de>



World Leading Dispenser  
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