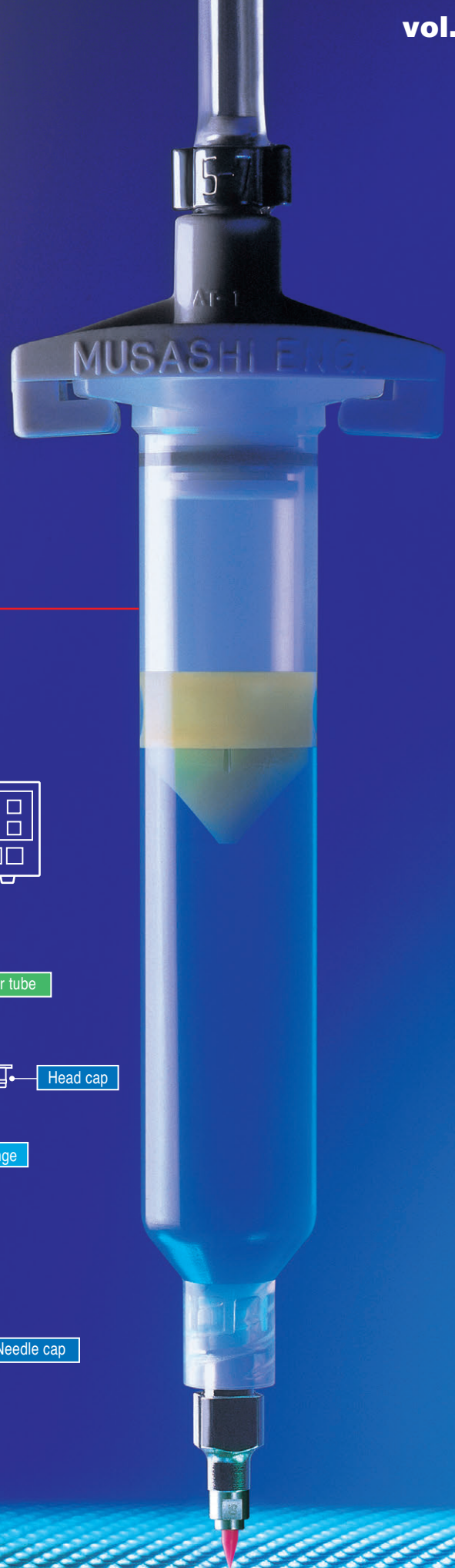
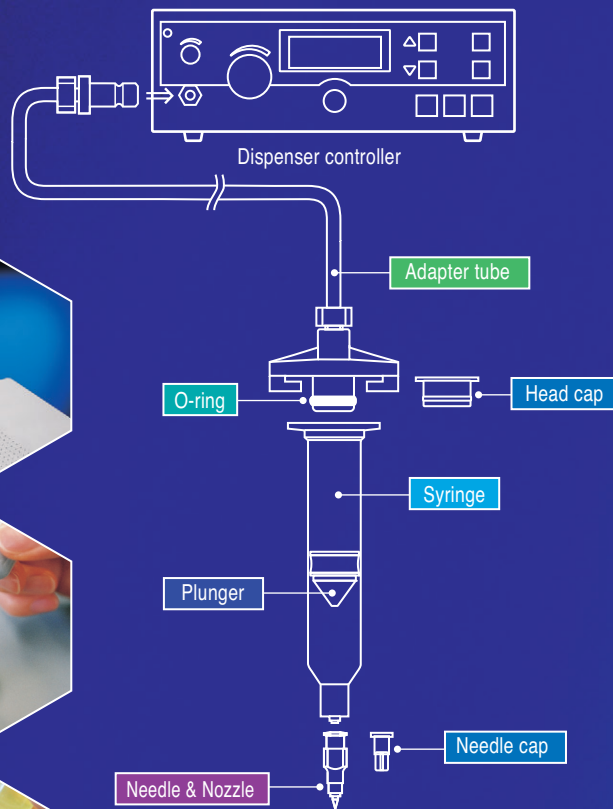


PRECISION DISPENSER ACCESSORY SERIES

Parts and Accessories for Dispenser

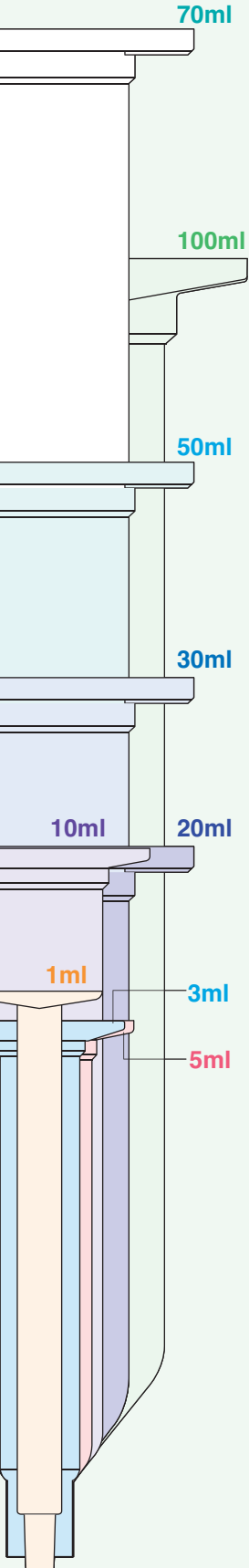


Syringe for dispenser

Syringes

Syringe full scale drawing

※ You can confirm your syringe size by comparing with the drawing below.



Clear syringe



Ungraduated



Graduated

Capacity	Ungraduated	Graduated	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
	Model	Model		
1 ml	-	PSY-1E-M	84.4×18×ø6.6	50 pieces/ pack
		PSY-1E2-M	84×18×ø6.7	
3 ml	PSY-3E	-	80.1×24.3×ø11.7	
5 ml	PSY-5E	PSY-5E-M	80×27×ø14.9	
10 ml	PSY-10E	PSY-10E-M	105×32×ø18.3	
20 ml	PSY-20E	PSY-20E-M	105×45×ø26.2	
30 ml	PSY-30E	PSY-30E-M	130×45×ø26.2	
50 ml	PSY-50E	PSY-50E-M	161×45×ø26.2	
70 ml	PSY-70E	-	224.2×45×ø26.5	
100 ml	PSY-100E	-	191×60×ø35.8	20 pieces

Material: Polypropylene ※ Working pressure: 0.5 MPa (5 kgf/cm²) maximum at room temperature

- Features**
- Straight cylinder design
 - Silicone free
 - Original design minimizing expansion and contraction

UV Block Syringe NEW



Ungraduated



Graduated

Capacity	Ungraduated	Graduated	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
	Model	Model		
3 ml	PSY-3EU-OR	-	80×24.3×ø11.7	50 pieces/ pack
5 ml	PSY-5EU-OR	PSY-5EU-OR-M	80×27×ø14.9	
10 ml	PSY-10EU-OR	PSY-10EU-OR-M	105.3×32×ø18.3	
20 ml	PSY-20EU-OR	PSY-20EU-OR-M	105×45×ø26.1	
30 ml	PSY-30EU-OR	PSY-30EU-OR-M	129.7×45×ø26.2	
50 ml	PSY-50EU-OR	PSY-50EU-OR-M	160.8×45×ø26.1	
70 ml	PSY-70EU-OR	-	224.4×45×ø26.4	

Material: Polypropylene

- Features**
- Complete blockage of UV rays
 - Clearly visualized remaining liquid level provided by improved transmittance in visible light range
 - Excellent flowability

Color syringe



Peppermint green

- Features**
- Best suited for managing products by liquid
 - Peppermint green syringe

Capacity	Ungraduated	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
	Model		
5 ml	PSY-5E-PG	80.4×27×ø14.9	50 pieces/ pack
10 ml	PSY-10E-PG	105.5×32×ø18.3	
20 ml	PSY-20E-PG	105×45×ø26.2	
30 ml	PSY-30E-PG	130×45×ø26.2	
50 ml	PSY-50E-PG	161×45×ø26.2	

※ Working pressure: 0.5 MPa (5 kgf/cm²) maximum at room temperature

Antistatic syringe



- Features**
- Elimination of static electricity thanks to its conductive design

Capacity	Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
10 ml	PSY-10E-SEP	105.5×32×ø18.3	50 pieces/ pack
30 ml	PSY-30E-SEP	130×45×ø26.2	
50 ml	PSY-50E-SEP	161.5×45×ø26.2	

Material: Polypropylene
 ※ Working pressure: 0.5 MPa (5 kgf/cm²) maximum for PSY-10E-SEP and 0.3 MPa (3 kgf/cm²) maximum for PSY-30E-SEP and PSY-50E-SEP at room temperature

Syringes

Stainless syringe



Features

- Best suited for operations at high temperatures and pressures

Capacity	Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order	Capacity	Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
1 ml	SSY-1B	85×18×φ6.6	1 piece	10 ml	SSY-10C	88×32×φ18	1 piece
3 ml	SSY-3B	84×24×φ11		30 ml	SSY-30C	130×45×φ25.8	
5 ml	SSY-5C	80×27×φ14.7		50 ml	SSY-50C	161×45×φ25.8	

Material: SUS303

※Working pressure: 0.7 MPa (7 kgf/cm²) maximum when using a special-made SUS adapter tube
0.5 MPa (5 kgf/cm²) maximum when using a standard adapter tube

Caps

Head cap



Syringe capacity	① For clear syringe	② For UV Block syringe	③ For clear syringe	Minimum order
	Model	Model	Model	
1 ml	HC-1E	-	HC-1E-H	50 pieces/ pack
3 ml	HC-3E	HC-3EU-B	-	
5 ml	HC-5E	HC-5EU-B	-	
10 ml	HC-10C	HC-10U-B	-	
20 to 70 ml	HC-50E	HC-50EU-B	-	
100 ml	HC-100E	-	-	

Material: Polyethylene

Needle cap



Syringe capacity	Normal Type		Knurled Type			Minimum order
	① For clear syringe	② For UV Block syringe	③ For clear syringe	④ For clear syringe	⑤ For UV Block syringe	
Common for all sizes	Model	Model	Model	Model	Model	50 pieces/ pack
	NC-3E	NC-3EU-B	NC-5E	NC-7E	NC-7EU-B	

Material: ①, ② Polypropylene ③, ④, ⑤ Polyethylene

Plunger (piston)

4-type lineup available in accordance with liquid characteristics and applications



For high-speed dispensing with high precision in micro volume

For excellent wiping performance

Looser

Fitting level against syringe

Tighter

Features

- High-precision dispensing with excellence in wiping performance
- These models are the syringe-specific plunger that is used in a syringe containing liquid to perform high-precision dispensing without any waste to the dispensing end.

Syringe capacity ml (cc)	FLP	MLP-R	MLP-B	MLP	Minimum order
	Model	Model	Model	Model	
1 ml	FLP-1E	-	-	-	50 pieces/ pack
3 ml	FLP-3E	-	-	-	
5 ml	FLP-5E	MLP-R-5E	MLP-B-5E	MLP-5E	
10 ml	FLP-10E	MLP-R-10E	MLP-B-10E	MLP-10E	
20 to 70 ml	FLP-50E	MLP-R-50E	MLP-B-50E	MLP-50E	
100 ml	FLP-100E	-	-	-	

Material: Polyethylene

Other accessories

Adapter tube



Features

- The tube to supply air pressure from the dispenser to the syringe

Adapter tube			Adapter tube O-ring			
Syringe capacity	Model	Length	Viton	Silicone	Nitrile rubber	Minimum order
			Model	Model	Model	
1 ml	AT-1BST, AT-1E	1m	AOV-1E	AOS-1E	AON-1*	20 pieces/ pack
3 ml	AT-3E		AOV-3*	AOS-3	AON-3	
5 ml	AT-5E		AOV-5E*	AOS-5E	AON-5E	
10 ml	AT-10E		AOV-10E*	AOS-10E	AON-10E	
20 to 70 ml	AT-50E		AOV-50E*	AOS-50E	AON-50E	
20 to 70 ml (for Σ)	AT-50E-SIGMA		AOV-50E*	AOS-50E	AON-50E	
100 ml	AT-100E		AOV-100E*	AOS-100E	-	

Adapter material: Polyacetal

Tube material: Special elastomer resin

Note: Each tube includes the ※-marked O-ring as a standard part.

Working pressure: 0.5 MPa (5 kgf/cm²) maximum

Adapter tube O-ring



Features

- Spare O-ring for adapter tube
- Selectable in accordance with fluid characteristics

Adapter tube for plastic connector



Features

- For the case that the plastic connector is used on the dispenser side

Syringe capacity	φ4 type (with tube clamp)	φ6 type (with tube clamp)	Length
	Model	Model	
3 ml	AT-3E-P4C	AT-3E-P6C	1m
5 ml	AT-5E-P4C	AT-5E-P6C	
10 ml	AT-10E-P4C	AT-10E-P6C	
20 to 70 ml	AT-50E-P4C	AT-50E-P6C	

Adapter material: Polyacetal

Tube material: Special elastomer resin

O-ring material: Viton

Note: The tube length cannot be changed.

Working pressure: 0.5 MPa (5 kgf/cm²) maximum

Antistatic adapter tube



Features

- Elimination of static electricity thanks to its conductive design
- We recommend that you use this product in conjunction with our antistatic syringe.

Syringe capacity	Model	Length
10 ml	AT-10E-SEP	1m
30, 50 ml	AT-50E-SEP	
30, 50 ml (for Σ)	AT-50E-SEP-SIGMA	

Adapter material: Polyacetal Tube material: Polyurethane
O-ring material: Viton

Note: Tube length can be changed in the unit of 0.5 m.

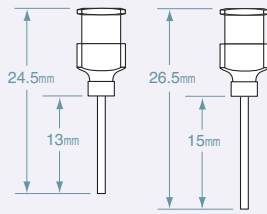
E.g.: To order a 1.5 m-length antistatic adapter tube for a 10 ml (cc) syringe, you need to specify "AT-10E-SEP-1.5M."

Working pressure: 0.5 MPa (5 kgf/cm²) maximum

Needles and nozzles for dispenser

Metal needles

Metal needle

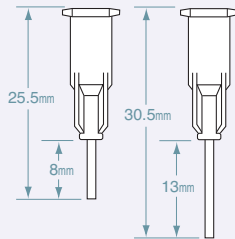


- Features**
- Adoption of durable SUS needle
 - Lineup of needle lengths, 13 mm and 15 mm

Gauge	O.D. (mm)	I.D. (mm)	Needle length: 13 (mm)		Needle length: 15 (mm)		Minimum order
			Model		Model		
12	φ2.77	φ2.27	SNA-12G-B	SNA-12G-C			60 pieces/ pack
13	φ2.40	φ1.94	SNA-13G-B	SNA-13G-C			
14	φ2.10	φ1.64	SNA-14G-B	SNA-14G-C			
15	φ1.83	φ1.43	SNA-15G-B	SNA-15G-C			
16	φ1.65	φ1.25	SNA-16G-B	SNA-16G-C			
17	φ1.49	φ1.11	SNA-17G-B	SNA-17G-C			
18	φ1.28	φ0.92	SNA-18G-B	SNA-18G-C			
19	φ1.08	φ0.72	SNA-19G-B	SNA-19G-C			
20	φ0.91	φ0.61	SNA-20G-B	SNA-20G-C			
21	φ0.82	φ0.52	SNA-21G-B	SNA-21G-C			
22	φ0.72	φ0.42	SNA-22G-B	SNA-22G-C			
23	φ0.64	φ0.34	SNA-23G-B	SNA-23G-C			
24	φ0.57	φ0.31	SNA-24G-B	SNA-24G-C			
25	φ0.52	φ0.26	SNA-25G-B	SNA-25G-C			
26	φ0.46	φ0.25	SNA-26G-B	SNA-26G-C			
27	φ0.42	φ0.21	SNA-27G-B	SNA-27G-C			
28	φ0.36	φ0.18	SNA-28G-B	SNA-28G-C			
30	φ0.32	φ0.14	SNA-30G-B	SNA-30G-C			

Needle material: SUS304 Base material: Brass (Nickel plated)

Plastic needle

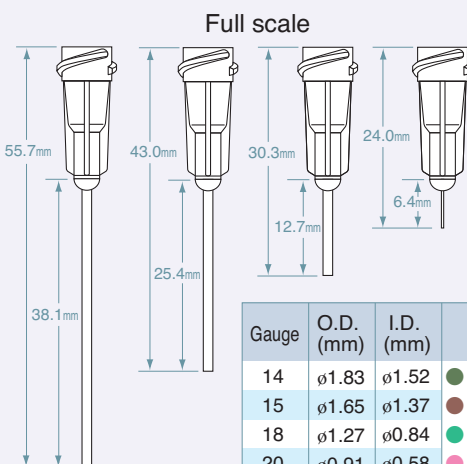


- Features**
- Disposable type
 - Lineup of needle lengths, 8 mm and 13 mm

Gauge	O.D. (mm)	I.D. (mm)	Color	Needle length: 8 (mm)		Needle length: 13 (mm)		Minimum order
				Model		Model		
15	φ1.83	φ1.43	● Brown	PN-15G-A	PN-15G-B			50 pieces/ pack
16	φ1.65	φ1.26	● Black	PN-16G-A	PN-16G-B			
17	φ1.50	φ1.06	● Blue	PN-17G-A	PN-17G-B			
18	φ1.27	φ0.97	● Gray	PN-18G-A	PN-18G-B			
19	φ1.08	φ0.78	● Light green	PN-19G-A	PN-19G-B			
20	φ0.90	φ0.66	● Light pink	PN-20G-A	PN-20G-B			
21	φ0.81	φ0.57	○ White	PN-21G-A	PN-21G-B			
22	φ0.72	φ0.47	● Light blue	PN-22G-A	PN-22G-B			
23	φ0.64	φ0.40	● Yellow	PN-23G-A	PN-23G-B			
24	φ0.56	φ0.31	● Ivory	PN-24G-A	PN-24G-B			
25	φ0.51	φ0.29	● Pink	PN-25G-A	PN-25G-B			
26	φ0.46	φ0.25	● Peppermint green	PN-26G-A	PN-26G-B			
27	φ0.41	φ0.20	● Brown	PN-27G-A	PN-27G-B			

Needle material: SUS304 Base material: Polyacetal

Double thread screwed plastic needle



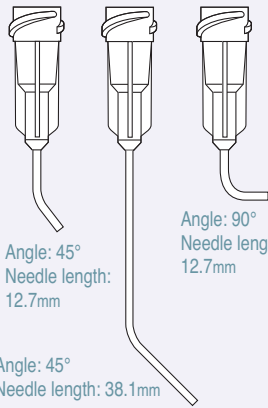
- Features**
- Reliable and sure fitting thanks to needle base with double thread screwed design
 - Secure needle mounting on syringe due to large four-vane design

Gauge	O.D. (mm)	I.D. (mm)	Color	Needle length: 6.4 (mm)		Needle length: 12.7 (mm)		Needle length: 25.4 (mm)		Needle length: 38.1 (mm)		Minimum order
				Model		Model		Model		Model		
14	φ1.83	φ1.52	● Dark green	-	DPN-14G-1	DPN-14G-2	DPN-14G-3					50 pieces/ pack
15	φ1.65	φ1.37	● Brown	-	DPN-15G-1	DPN-15G-2	DPN-15G-3					
18	φ1.27	φ0.84	● Green	-	DPN-18G-1	DPN-18G-2	DPN-18G-3					
20	φ0.91	φ0.58	● Pink	-	DPN-20G-1	DPN-20G-2	DPN-20G-3					
21	φ0.81	φ0.51	● Purple	-	DPN-21G-1	DPN-21G-2	DPN-21G-3					
22	φ0.71	φ0.41	● Blue	-	DPN-22G-1	DPN-22G-2	DPN-22G-3					
23	φ0.64	φ0.33	● Orange	-	DPN-23G-1	DPN-23G-2	DPN-23G-3					
25	φ0.51	φ0.25	● Red	-	DPN-25G-1	DPN-25G-2	DPN-25G-3					
27	φ0.41	φ0.20	○ Clear	-	DPN-27G-1	-	-					
30	φ0.30	φ0.15	● Light purple	-	DPN-30G-1	-	-					
32	φ0.23	φ0.10	● Yellow	DPN-32G-0	DPN-32G-1	-	-					

Needle material: SUS304 Base material: Polypropylene

Metal needles

Curve needle®



Features

- Best suited for dispensing to inner surfaces of workpieces
- Bend processing with excellent fluidity
- 2 kinds of angles available

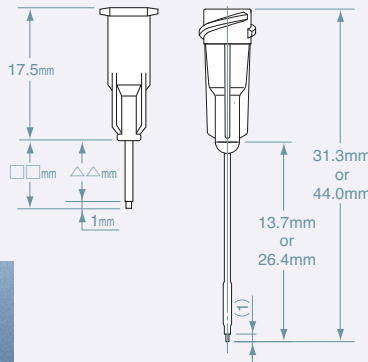
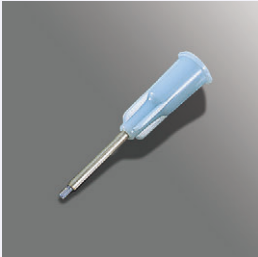
Gauge	O.D. (mm)	I.D. (mm)	Color	Angle: 45° Needle length: 12.7 (mm)	Angle: 45° Needle length: 38.1 (mm)	Angle: 90° Needle length: 12.7 (mm)	Minimum order
				Model	Model	Model	
14	φ1.83	φ1.52	Dark green	CPN-14G-A45	CPN-14G-B45	CPN-14G-A90	50 pieces/ pack
15	φ1.65	φ1.37	Brown	CPN-15G-A45	–	CPN-15G-A90	
18	φ1.27	φ0.84	Green	CPN-18G-A45	CPN-18G-B45	CPN-18G-A90	
20	φ0.91	φ0.58	Pink	CPN-20G-A45	–	CPN-20G-A90	
21	φ0.81	φ0.51	Purple	CPN-21G-A45	CPN-21G-B45	CPN-21G-A90	
22	φ0.71	φ0.41	Blue	CPN-22G-A45	–	CPN-22G-A90	
23	φ0.64	φ0.33	Orange	CPN-23G-A45	–	CPN-23G-A90	
25	φ0.51	φ0.25	Red	CPN-25G-A45	–	CPN-25G-A90	
27	φ0.41	φ0.20	Clear	CPN-27G-A45	–	CPN-27G-A90	
30	φ0.30	φ0.15	Light purple	CPN-30G-A45	–	CPN-30G-A90	

Needle material: SUS304

Base material: Polypropylene

Resin needles and nozzles

Teflon needle with SUS guide



Gauge	SUS guide O.D. (mm)	Teflon needle I.D. (mm)	Color	Model	Minimum order
16	φ2.42	φ1.07	Ivory	TN-16G-□□L-13G-△△L	1 piece
17	φ2.01	φ0.96	Yellow	TN-17G-□□L-14G-△△L	
18	φ2.01	φ0.86	Gray	TN-18G-□□L-14G-△△L	
19	φ1.82	φ0.68	Light green	TN-19G-□□L-15G-△△L	
20	φ1.67	φ0.56	Light pink	TN-20G-□□L-16G-△△L	
21	φ1.56	φ0.46	Light blue	TN-21G-□□L-17G-△△L	
22	φ1.22	φ0.38	Brown	TN-22G-□□L-18G-△△L	

Needle material: Teflon Base material: Polyacetal Guide material: SUS304

* Enter the Teflon needle length in the squares: $4 \leq \square \leq 50$ (mm)
Enter the SUS guide length in the triangles: $3 \leq \triangle \leq 49$ (mm)
(Make sure to specify an SUS guide that is 1 mm shorter than the Teflon needle.)

Note: To order a Teflon needle with an SUS guide, first determine the needle length.
Ex.: To order a 20 mm-long 19G Teflon needle, write "TN-19G-20L-15G-19L."



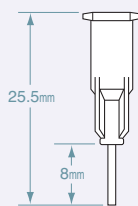
Needle length: 13.7 (mm)		Needle length: 26.4 (mm)		Teflon needle O.D. (φ)	Teflon needle I.D. (φ)	Color	Minimum order
Model	Product code	Model	Product code				
TN-0.3-13.7-SUSG	63MB00	TN-0.3-26.4-SUSG	63MC00	0.5	0.3	Pink	1 piece/ pack
TN-0.2-13.7-SUSG	63LB00	TN-0.2-26.4-SUSG	63LC00	0.4	0.2	Purple	
TN-0.1-13.7-SUSG	63KB00	TN-0.1-26.4-SUSG	63KC00	0.3	0.1	Orange	

Needle material: Teflon Base material: Polypropylene Guide material: SUS304

Features

- For dispensing anaerobic fluids with high precision
- Equipped with SUS guide to prevent needlepoint unsteadiness

Teflon needle



Features

- For dispensing metal-needle-unusable-liquid
- Soft material to avoid damage to workpiece
- Applicable to anaerobic material dispensing

Gauge	O.D. (mm)	I.D. (mm)	Color	Needle length: 8 (mm)	Minimum order
				Model	
13	φ2.10	φ1.50	Ivory	TN-13G	50 pieces/ pack
14	φ1.95	φ1.35	Blue	TN-14G	
15	φ1.79	φ1.19	Gray	TN-15G	
16	φ1.67	φ1.07	Ivory	TN-16G	
17	φ1.56	φ0.96	Yellow	TN-17G	
18	φ1.46	φ0.86	Gray	TN-18G	
19	φ1.18	φ0.68	Light green	TN-19G	
20	φ1.06	φ0.56	Light pink	TN-20G	
21	φ0.92	φ0.46	Light blue	TN-21G	
22	φ0.84	φ0.38	White	TN-22G	

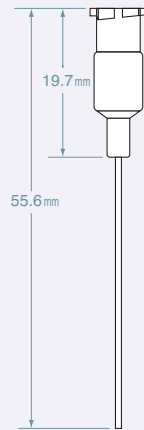
Needle material: Teflon

Base material: Polyacetal

Needles and nozzles for dispenser

Resin needles and nozzles

Soft needle



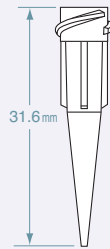
Gauge	O.D. (mm)	I.D. (mm)	Color	Model	Minimum order
15	φ1.83	φ1.37	Dark gray	PPN-15G	50 pieces/ pack
16	φ1.70	φ1.19	Brown	PPN-16G	
18	φ1.35	φ0.81	Pink	PPN-18G	
20	φ0.99	φ0.61	Yellow	PPN-20G	
22	φ0.81	φ0.38	Black	PPN-22G	
25	φ0.74	φ0.33	Red	PPN-25G	

Needle material: Polypropylene Base material: Polypropylene

Features

- Soft material to avoid damage to workpiece
- Applicable to anaerobic material dispensing

Double thread screwed tapered nozzle



Gauge	O.D. (mm)	I.D. (mm)	Color	Model	Needle length	Minimum order
14	φ2.08	φ1.60	Brown	TPND-14G	31.6mm	50 pieces/ pack
16	φ2.08	φ1.19	Gray	TPND-16G		
18	φ1.50	φ0.84	Green	TPND-18G		
20	φ1.11	φ0.61	Pink	TPND-20G		
22	φ0.90	φ0.40	Blue	TPND-22G		
25	φ0.75	φ0.25	Red	TPND-25G		

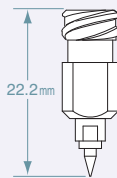
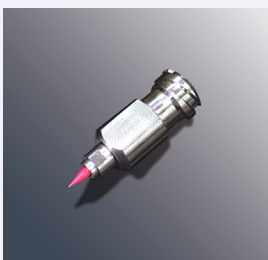
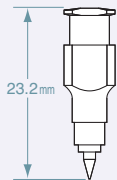
Material: Polyethylene

Features

- For high viscosity material
- Excellent fluidity of fluid thanks to tapered design resulting in best suitability for high-viscosity material dispensing

High precision nozzles

Super-fine nozzle



O.D. (mm)	I.D. (mm)	Model		Minimum order
		Luerlock type	Double thread screwed type	
φ0.70	φ0.60	FN-0.60N	FN-0.60ND	1 piece
φ0.60	φ0.50	FN-0.50N	FN-0.50ND	
φ0.50	φ0.40	FN-0.40N	FN-0.40ND	
φ0.40	φ0.30	FN-0.30N	FN-0.30ND	
φ0.35	φ0.25	FN-0.25N	FN-0.25ND	
φ0.30	φ0.20	FN-0.20N	FN-0.20ND	
φ0.25	φ0.15	FN-0.15N	FN-0.15ND	
φ0.20	φ0.10	FN-0.10N	FN-0.10ND	
φ0.15	φ0.05	FN-0.05N	FN-0.05ND	
φ0.14	φ0.04	FN-0.04N	FN-0.04ND	
φ0.13	φ0.03	FN-0.03N	FN-0.03ND	
φ0.12	φ0.02	FN-0.02N	FN-0.02ND	

Overall length: 23.2 mm
Base material: Brass (Nickel plated)

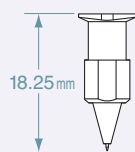
Nozzle tip with 15-micrometer thickness type

O.D. (mm)	I.D. (mm)	Model		Minimum order
		Luerlock type	Double thread screwed type	
φ0.63	φ0.60	FN-0.60N-F	FN-0.60ND-F	1 piece
φ0.53	φ0.50	FN-0.50N-F	FN-0.50ND-F	
φ0.43	φ0.40	FN-0.40N-F	FN-0.40ND-F	
φ0.33	φ0.30	FN-0.30N-F	FN-0.30ND-F	
φ0.28	φ0.25	FN-0.25N-F	FN-0.25ND-F	
φ0.23	φ0.20	FN-0.20N-F	FN-0.20ND-F	
φ0.18	φ0.15	FN-0.15N-F	FN-0.15ND-F	
φ0.13	φ0.10	FN-0.10N-F	FN-0.10ND-F	
φ0.08	φ0.05	FN-0.05N-F	FN-0.05ND-F	
φ0.07	φ0.04	FN-0.04N-F	FN-0.04ND-F	
φ0.06	φ0.03	FN-0.03N-F	FN-0.03ND-F	
φ0.05	φ0.02	FN-0.02N-F	FN-0.02ND-F	

Features

- Applicable to ultra-small volume dispensing and ultra-fine drawing
- 12 types from 20 μm at minimum to 600 μm of inner diameter available

Precision solid nozzle



Features

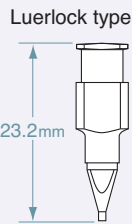
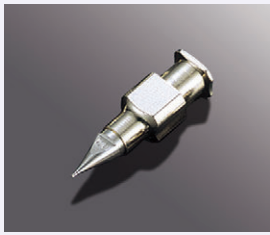
- 1 Integral structure
- 2 Tapered shape
- 3 Ultra-thinned nozzle tip

O.D. (mm)	I.D. (mm)	Model	Minimum order
φ0.60	φ0.50	SHN-0.5N	1 piece
φ0.55	φ0.45	SHN-0.45N	
φ0.50	φ0.40	SHN-0.4N	
φ0.45	φ0.35	SHN-0.35N	
φ0.40	φ0.30	SHN-0.3N	
φ0.35	φ0.25	SHN-0.25N	
φ0.30	φ0.20	SHN-0.2N	
φ0.25	φ0.15	SHN-0.15N	
φ0.20	φ0.10	SHN-0.1N	

Overall length: 18.25 mm
Nozzle material: SUS303

High precision nozzles

Precision nozzle



Features

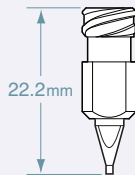
- This nozzle is suitable for materials containing fillers.
- Applicable to high-precision small volume dispensing

O.D. (mm)	I.D. (mm)	Model		Minimum order
		Luerlock type	Double thread screwed type	
ø0.80	ø0.60	HN-0.6N	HN-0.6ND	1 piece
ø0.70	ø0.50	HN-0.5N	HN-0.5ND	
ø0.60	ø0.40	HN-0.4N	HN-0.4ND	
ø0.50	ø0.30	HN-0.3N	HN-0.3ND	
ø0.45	ø0.25	HN-0.25N	HN-0.25ND	
ø0.40	ø0.20	HN-0.2N	HN-0.2ND	
ø0.25	ø0.15	HN-0.15N	HN-0.15ND	
ø0.20	ø0.10	HN-0.1N	HN-0.1ND	

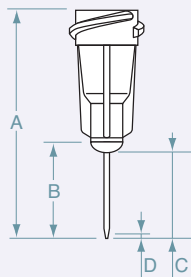
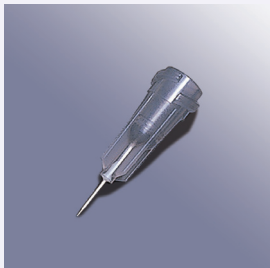
Overall length: 23.2 mm Nozzle material: SUS303
Base material: Brass (Nickel plated)



Double thread screwed type



Sharp needle™



Tip O.D. (mm)	I.D. (mm)	Color	A (mm)	B (mm)	C (mm)	D (mm)	Model	Minimum order
ø1.00	ø0.84	Green	30.3	12.7	11.4	0.6	SPN-0.84-12.7L	50 pieces/ pack
ø0.74	ø0.58	Pink	55.7	38.1	37.1	0.32	SPN-0.58-38.1L	
ø0.52	ø0.41	Blue	55.7	38.1	37.1	0.4	SPN-0.41-38.1L	
ø0.44	ø0.33	Orange	30.3	12.7	11.4	0.3	SPN-0.33-12.7L	
ø0.34	ø0.25	Red	30.3	12.7	11.4	0.3	SPN-0.25-12.7L	25 pieces/ pack
ø0.26	ø0.17	Peppermint green	27.1	9.5	8.5	0.5	SPN-0.17-9.5L	
ø0.19	ø0.12	Gray	24.0	6.5	5.6	1.1	SPN-0.12-6.5L	

Needle material: SUS304 Base material: Polypropylene
A: Overall length B: Needle length C: Visible Needle length D: Tapered tip length



Enlarged drawing of needle tip

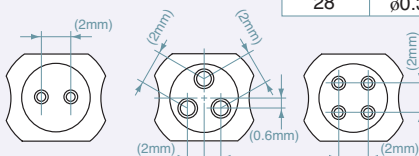
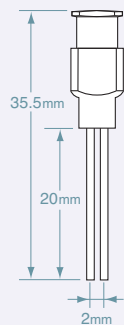
- #### Features
- Applicable to small volume dispensing
 - Tapered needle tip
 - Needle base with double thread screwed design

Special nozzles

Multi-point dispensing needles



- #### Features
- Applicable to multi-point simultaneous dispensing



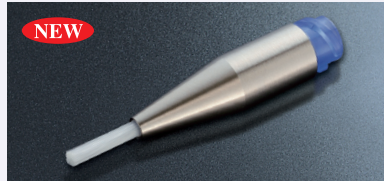
Gauge	O.D. (mm)	I.D. (mm)	Needle length: 20mm		
			Twin needle (DN series)	3-pin needle (DN-3P series)	4-pin needle (DN-4P series)
16	ø1.67	ø1.19	DN-16G	—	—
17	ø1.56	ø1.04	DN-17G	—	—
18	ø1.22	ø0.86	DN-18G	DN-18G-3P	—
19	ø1.00	ø0.68	DN-19G	DN-19G-3P	—
20	ø0.91	ø0.58	DN-20G	DN-20G-3P	—
21	ø0.83	ø0.49	DN-21G	DN-21G-3P	DN-21G-4P
22	ø0.72	ø0.39	DN-22G	DN-22G-3P	DN-22G-4P
23	ø0.63	ø0.32	DN-23G	DN-23G-3P	DN-23G-4P
24	ø0.57	ø0.29	DN-24G	DN-24G-3P	DN-24G-4P
25	ø0.50	ø0.26	DN-25G	DN-25G-3P	DN-25G-4P
26	ø0.46	ø0.24	DN-26G	DN-26G-3P	DN-26G-4P
27	ø0.41	ø0.20	DN-27G	DN-27G-3P	DN-27G-4P
28	ø0.35	ø0.15	DN-28G	DN-28G-3P	DN-28G-4P

Needle material: SUS304 Base material: Brass (Nickel plated)

Needles and nozzles for dispenser

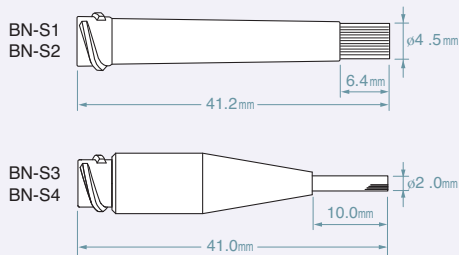
Special nozzles

Brush nozzle



Features

- Applicable to wide-area surface dispensing
- Secure needle fitting on syringe thanks to double thread screwed design

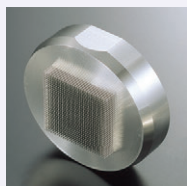


Model	Hardness	Brush material	Minimum order
BN-S1	Standard type	Polyester	1 piece
BN-S2	Soft type	Polyester	
BN-S3	Standard type	Polyester	
BN-S4	Soft type	Polyester	

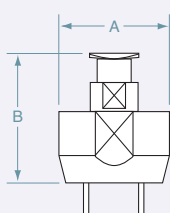
<External dimensions>

- BN-S1 and BN-S2
Overall length: 41.2 mm Brush length: 6.4 mm
Brush diameter: ϕ 4.5 mm
- BN-S3 and BN-S4
Overall length: 41.0 mm Brush length: 10.0 mm
Brush diameter: ϕ 2.0 mm

Multi nozzles



Sharp needle type
Enlarged drawing
of needle tip



Needle base

Model	Dimension A (mm)	Dimension B (mm)
MN-10	10	15
MN-13	13	19
MN-15	15	22
MN-17	17	22
MN-19	19	22
MN-21	21	22
MN-23	23	25
MN-25	25	25
MN-27	27	25

Base material: SUS303

Needle inner and outer diameters

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

Nozzle material: SUS304

Notes:

- When ordering a nozzle, specify the needle type, needle arrangement, needle gauge, and needle length.
- To order a special size not listed in the table above, please contact our sales office.

Features

- Multi-point simultaneous dispensing
- Applicable to various dispensing patterns

Nozzle kit case



Features

- This is a convenient kit with various needles and nozzles when the dispenser is used for manufacturing premise and research and development.

Contents of Needle nozzle kit

- Metal needle
- Teflon needle
- Plastic needle
- Teflon needle with SUS guide
- Soft needle
- Curve needle
- Sharp needle
- Double thread screwed plastic needle
- Double thread screwed tapered needle
- Brush nozzle

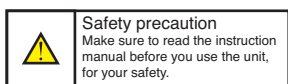
Item name	Item number	Product code
Nozzle kit	NK-1	12300001
Nozzle kit case	NKC-1	12300002



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Safety precaution

Make sure to read the instruction manual before you use the unit, for your safety.

※ The specifications of the system may change without notice.

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