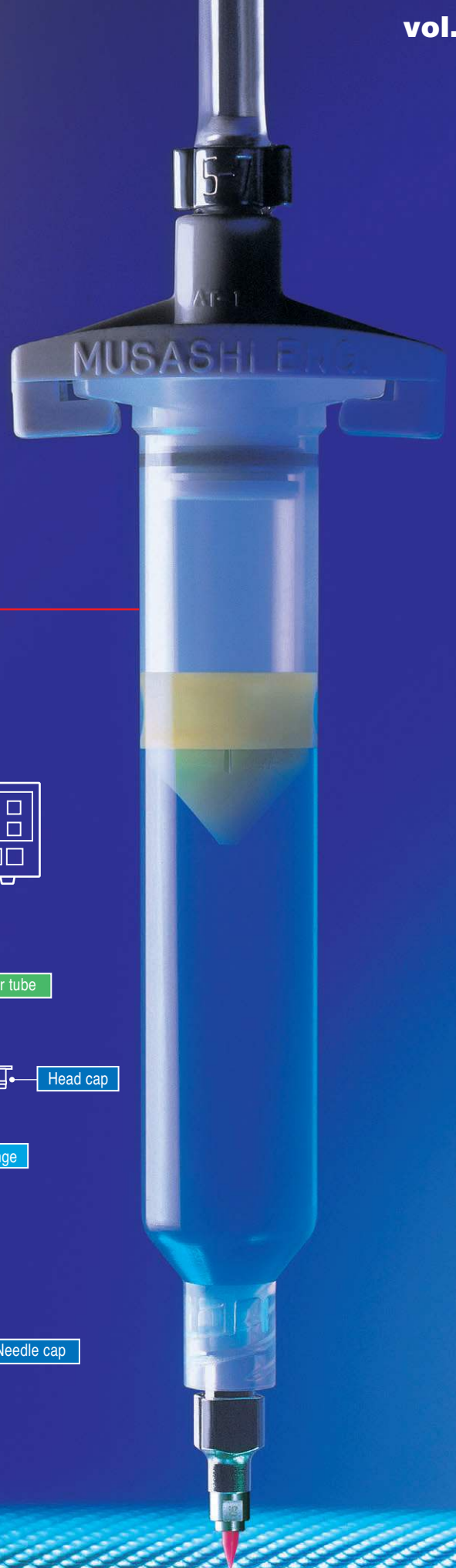
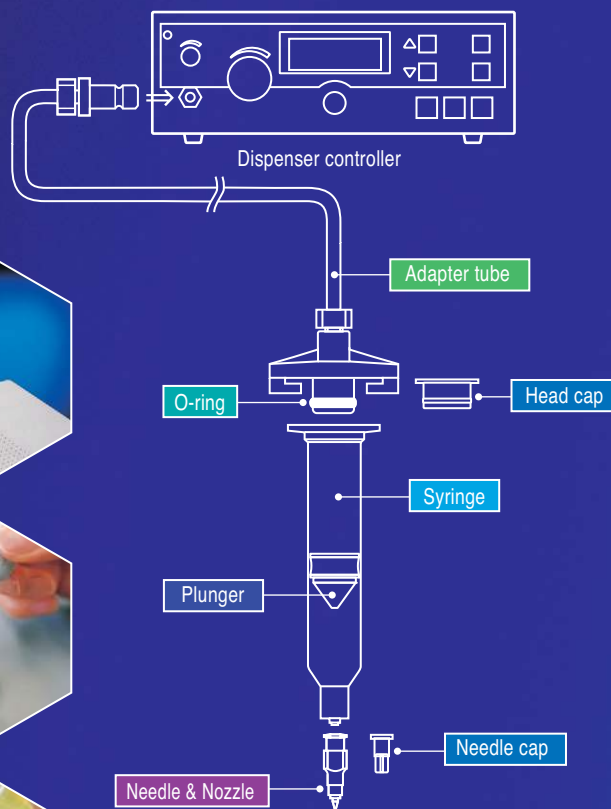


PRECISION DISPENSER ACCESSORY SERIES

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.

70ml

100ml

50ml

30ml

10ml

20ml

1ml

3ml

5ml

Clear syringe



Ungraduated



Graduated

Capacity	Ungraduated Model	Graduated Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
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	20 pieces
100 ml	PSY-100E	–	191×60×ø35.8	

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 Model	Graduated Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
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 Model	Dimensions (mm) (overall lg. x flange lg. x O.D.)	Minimum order
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×ø6.6	1 piece	10 ml	SSY-10C	88×32×ø18	1 piece
3 ml	SSY-3B	84×24×ø11		30 ml	SSY-30C	130×45×ø25.8	
5 ml	SSY-5C	80×27×ø14.7		50 ml	SSY-50C	161×45×ø25.8	

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

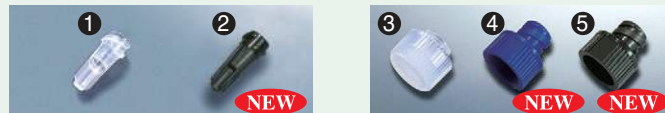
Head cap



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

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

Syringe capacity ml (cc)	FLP Model	MLP-R Model	MLP-B Model	MLP Model	Minimum order
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	

Material: Polyethylene

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.

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 Model	Silicone Model	Nitrile rubber Model	Minimum order
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	ø4 type (with tube clamp) Model	ø6 type (with tube clamp) Model	Length
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.

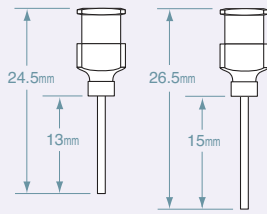
E.g.: To order a 1.5 m-length antistatic adapter tube for a 10 ml (cc) syringe, you need to specify "AT-10E-SEP-1.5M."

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

Needles and nozzles for dispenser

Metal needles

Metal needle



Features

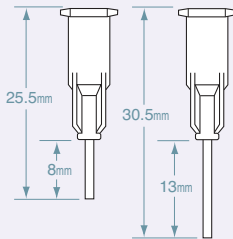
- Adoption of durable SUS needle
- Lineup of needle lengths, 13 mm and 15 mm

Gauge	O.D. (mm)	I.D. (mm)	Needle length: 13 (mm)	Needle length: 15 (mm)	Minimum order
			Model	Model	
12	ø2.77	ø2.27	SNA-12G-B	SNA-12G-C	60 pieces/ pack
13	ø2.40	ø1.94	SNA-13G-B	SNA-13G-C	
14	ø2.10	ø1.64	SNA-14G-B	SNA-14G-C	
15	ø1.83	ø1.43	SNA-15G-B	SNA-15G-C	
16	ø1.65	ø1.25	SNA-16G-B	SNA-16G-C	
17	ø1.49	ø1.11	SNA-17G-B	SNA-17G-C	
18	ø1.28	ø0.92	SNA-18G-B	SNA-18G-C	
19	ø1.08	ø0.72	SNA-19G-B	SNA-19G-C	
20	ø0.91	ø0.61	SNA-20G-B	SNA-20G-C	
21	ø0.82	ø0.52	SNA-21G-B	SNA-21G-C	
22	ø0.72	ø0.42	SNA-22G-B	SNA-22G-C	
23	ø0.64	ø0.34	SNA-23G-B	SNA-23G-C	
24	ø0.57	ø0.31	SNA-24G-B	SNA-24G-C	
25	ø0.52	ø0.26	SNA-25G-B	SNA-25G-C	
26	ø0.46	ø0.25	SNA-26G-B	SNA-26G-C	
27	ø0.42	ø0.21	SNA-27G-B	SNA-27G-C	
28	ø0.36	ø0.18	SNA-28G-B	SNA-28G-C	
30	ø0.32	ø0.14	SNA-30G-B	SNA-30G-C	

Needle material: SUS304

Base material: Brass (Nickel plated)

Plastic needle



Features

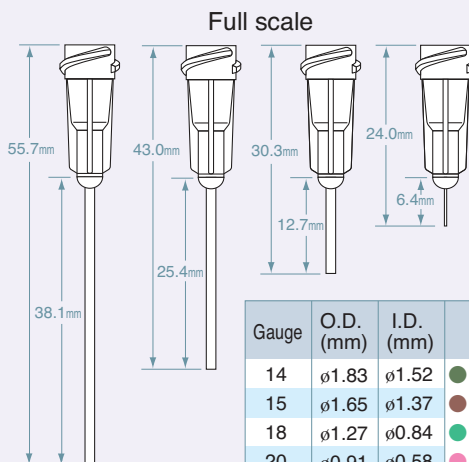
- Disposable type
- Lineup of needle lengths, 8 mm and 13 mm

Gauge	O.D. (mm)	I.D. (mm)	Color	Needle length: 8 (mm)	Needle length: 13 (mm)	Minimum order
				Model	Model	
15	ø1.83	ø1.43	Brown	PN-15G-A	PN-15G-B	50 pieces/ pack
16	ø1.65	ø1.26	Black	PN-16G-A	PN-16G-B	
17	ø1.50	ø1.06	Blue	PN-17G-A	PN-17G-B	
18	ø1.27	ø0.97	Gray	PN-18G-A	PN-18G-B	
19	ø1.08	ø0.78	Light green	PN-19G-A	PN-19G-B	
20	ø0.90	ø0.66	Light pink	PN-20G-A	PN-20G-B	
21	ø0.81	ø0.57	White	PN-21G-A	PN-21G-B	
22	ø0.72	ø0.47	Light blue	PN-22G-A	PN-22G-B	
23	ø0.64	ø0.40	Yellow	PN-23G-A	PN-23G-B	
24	ø0.56	ø0.31	Ivory	PN-24G-A	PN-24G-B	
25	ø0.51	ø0.29	Pink	PN-25G-A	PN-25G-B	
26	ø0.46	ø0.25	Peppermint green	PN-26G-A	PN-26G-B	
27	ø0.41	ø0.20	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

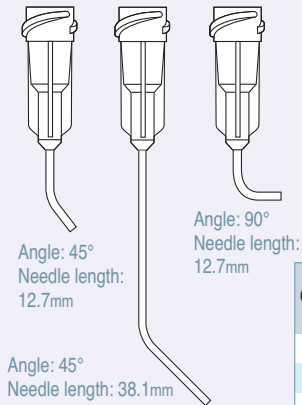
Gauge	O.D. (mm)	I.D. (mm)	Color	Needle length: 6.4 (mm)	Needle length: 12.7 (mm)	Needle length: 25.4 (mm)	Needle length: 38.1 (mm)	Minimum order
				Model	Model	Model	Model	
14	ø1.83	ø1.52	Dark green	—	DPN-14G-1	DPN-14G-2	DPN-14G-3	50 pieces/ pack
15	ø1.65	ø1.37	Brown	—	DPN-15G-1	DPN-15G-2	DPN-15G-3	
18	ø1.27	ø0.84	Green	—	DPN-18G-1	DPN-18G-2	DPN-18G-3	
20	ø0.91	ø0.58	Pink	—	DPN-20G-1	DPN-20G-2	DPN-20G-3	
21	ø0.81	ø0.51	Purple	—	DPN-21G-1	DPN-21G-2	DPN-21G-3	
22	ø0.71	ø0.41	Blue	—	DPN-22G-1	DPN-22G-2	DPN-22G-3	
23	ø0.64	ø0.33	Orange	—	DPN-23G-1	DPN-23G-2	DPN-23G-3	
25	ø0.51	ø0.25	Red	—	DPN-25G-1	DPN-25G-2	DPN-25G-3	
27	ø0.41	ø0.20	Clear	—	DPN-27G-1	—	—	
30	ø0.30	ø0.15	Light purple	—	DPN-30G-1	—	—	
32	ø0.23	ø0.10	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

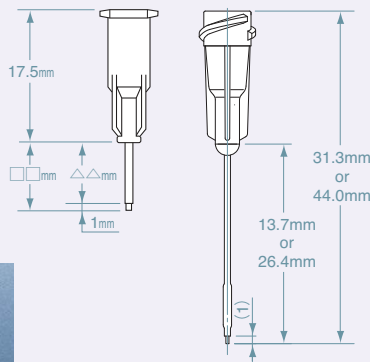
Gauge	O.D. (mm)	I.D. (mm)	Color	Angle: 45° Needle length: 12.7 (mm)	Angle: 45° Needle length: 38.1 (mm)	Angle: 90° Needle length: 12.7 (mm)	Minimum order
				Model	Model	Model	
14	φ1.83	φ1.52	Dark green	CPN-14G-A45	CPN-14G-B45	CPN-14G-A90	50 pieces/ pack
15	φ1.65	φ1.37	Brown	CPN-15G-A45	—	CPN-15G-A90	
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."

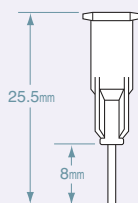
Needle length: 13.7 (mm)		Needle length: 26.4 (mm)		Teflon needle O.D. (φ)	Teflon needle I.D. (φ)	Color	Minimum order
Model	Product code	Model	Product code				
TN-0.3-13.7-SUSG	63MB00	TN-0.3-26.4-SUSG	63MC00	0.5	0.3	Pink	1 piece/ pack
TN-0.2-13.7-SUSG	63LB00	TN-0.2-26.4-SUSG	63LC00	0.4	0.2	Purple	
TN-0.1-13.7-SUSG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

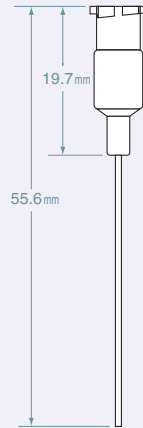
Needle material: Teflon

Base material: Polyacetal

Needles and nozzles for dispenser

Resin needles and nozzles

Soft needle



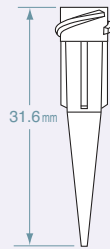
Gauge	O.D. (mm)	I.D. (mm)	Color	Model	Minimum order
15	ø1.83	ø1.37	Dark gray	PPN-15G	50 pieces/ pack
16	ø1.70	ø1.19	Brown	PPN-16G	
18	ø1.35	ø0.81	Pink	PPN-18G	
20	ø0.99	ø0.61	Yellow	PPN-20G	
22	ø0.81	ø0.38	Black	PPN-22G	
25	ø0.74	ø0.33	Red	PPN-25G	

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	ø2.08	ø1.60	Brown	TPND-14G	31.6mm	50 pieces/ pack
16	ø2.08	ø1.19	Gray	TPND-16G		
18	ø1.50	ø0.84	Green	TPND-18G		
20	ø1.11	ø0.61	Pink	TPND-20G		
22	ø0.90	ø0.40	Blue	TPND-22G		
25	ø0.75	ø0.25	Red	TPND-25G		

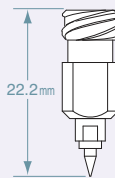
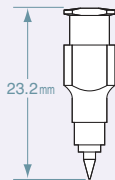
Material: Polyethylene

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	
ø0.70	ø0.60	FN-0.60N	FN-0.60ND	1 piece
ø0.60	ø0.50	FN-0.50N	FN-0.50ND	
ø0.50	ø0.40	FN-0.40N	FN-0.40ND	
ø0.40	ø0.30	FN-0.30N	FN-0.30ND	
ø0.35	ø0.25	FN-0.25N	FN-0.25ND	
ø0.30	ø0.20	FN-0.20N	FN-0.20ND	
ø0.25	ø0.15	FN-0.15N	FN-0.15ND	
ø0.20	ø0.10	FN-0.10N	FN-0.10ND	
ø0.15	ø0.05	FN-0.05N	FN-0.05ND	
ø0.14	ø0.04	FN-0.04N	FN-0.04ND	
ø0.13	ø0.03	FN-0.03N	FN-0.03ND	
ø0.12	ø0.02	FN-0.02N	FN-0.02ND	

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

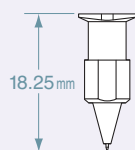
Nozzle tip with 15-micrometer thickness type

O.D. (mm)	I.D. (mm)	Model		Minimum order
		Luerlock type	Double thread screwed type	
ø0.63	ø0.60	FN-0.60N-F	FN-0.60ND-F	1 piece
ø0.53	ø0.50	FN-0.50N-F	FN-0.50ND-F	
ø0.43	ø0.40	FN-0.40N-F	FN-0.40ND-F	
ø0.33	ø0.30	FN-0.30N-F	FN-0.30ND-F	
ø0.28	ø0.25	FN-0.25N-F	FN-0.25ND-F	
ø0.23	ø0.20	FN-0.20N-F	FN-0.20ND-F	
ø0.18	ø0.15	FN-0.15N-F	FN-0.15ND-F	
ø0.13	ø0.10	FN-0.10N-F	FN-0.10ND-F	
ø0.08	ø0.05	FN-0.05N-F	FN-0.05ND-F	
ø0.07	ø0.04	FN-0.04N-F	FN-0.04ND-F	
ø0.06	ø0.03	FN-0.03N-F	FN-0.03ND-F	
ø0.05	ø0.02	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
ø0.60	ø0.50	SHN-0.5N	1 piece
ø0.55	ø0.45	SHN-0.45N	
ø0.50	ø0.40	SHN-0.4N	
ø0.45	ø0.35	SHN-0.35N	
ø0.40	ø0.30	SHN-0.3N	
ø0.35	ø0.25	SHN-0.25N	
ø0.30	ø0.20	SHN-0.2N	
ø0.25	ø0.15	SHN-0.15N	
ø0.20	ø0.10	SHN-0.1N	

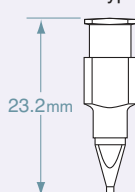
Overall length: 18.25 mm
Nozzle material: SUS303

High precision nozzles

Precision nozzle



Luerlock type

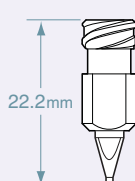


Features

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



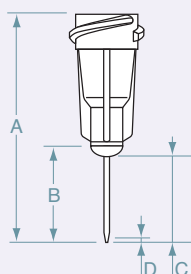
Double thread screwed type



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)

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

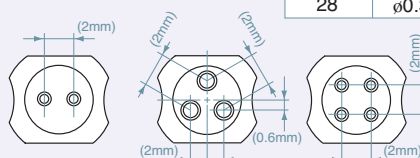
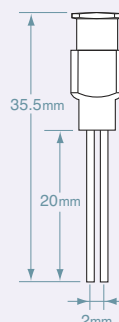
Special nozzles

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

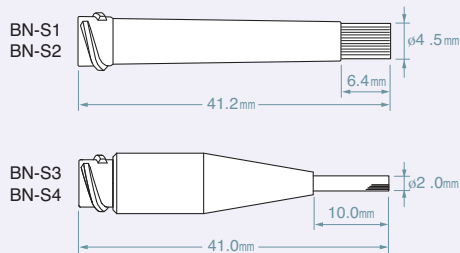
Special nozzles

Brush nozzle



Features

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

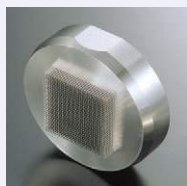


Model	Hardness	Brush material	Minimum order
BN-S1	Standard type	Polyester	1 piece
BN-S2	Soft type	Polyester	
BN-S3	Standard type	Polyester	
BN-S4	Soft type	Polyester	

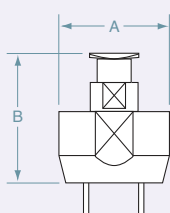
<External dimensions>

- BN-S1 and BN-S2
Overall length: 41.2 mm Brush length: 6.4 mm
Brush diameter: $\phi 4.5$ mm
- BN-S3 and BN-S4
Overall length: 41.0 mm Brush length: 10.0 mm
Brush diameter: $\phi 2.0$ 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	$\phi 2.99$	$\phi 2.30$	21	$\phi 0.83$	$\phi 0.49$
13	$\phi 2.42$	$\phi 1.80$	22	$\phi 0.72$	$\phi 0.39$
14	$\phi 2.01$	$\phi 1.58$	23	$\phi 0.63$	$\phi 0.32$
15	$\phi 1.82$	$\phi 1.37$	24	$\phi 0.57$	$\phi 0.29$
16	$\phi 1.67$	$\phi 1.19$	25	$\phi 0.50$	$\phi 0.26$
17	$\phi 1.56$	$\phi 1.04$	26	$\phi 0.46$	$\phi 0.24$
18	$\phi 1.22$	$\phi 0.86$	27	$\phi 0.41$	$\phi 0.20$
19	$\phi 1.00$	$\phi 0.68$	28	$\phi 0.35$	$\phi 0.15$
20	$\phi 0.91$	$\phi 0.58$			

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

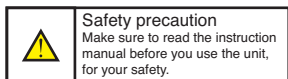
Item name	Item number	Product code
Nozzle kit	NK-1	12300001
Nozzle kit case	NKC-1	12300002



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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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