SUPRATEC SYNEO

# DISPENSING SYSTEM
# Accessories

TAEHA Corporation





## DISPENSING TIPS & NOZZLES

### Plastic Hub Needle

- As a general-purpose needle with a hub made of PE with the dispensing unit (shaft) made of stainless steel that has a screw-type structure, it is perfect for fastening.
*Hub: PE, Pipe : Stainless Steel

| PLASTIC HUB NEEDLE | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gauge | I.D (㎜) | O.D (㎜) | Color | Pipe length L=12.7㎜ | Pipe length L=25.4㎜ | Color | Pipe length L=6.35㎜ |
| | | | | pkg Q'ty=100pcs | | | pkg Q'ty=50pcs |
| 14G | 1.75 | 2.10 | ● Dark Green | PN-14G-1/2 | PN-14G-1 | ● Dark Green | PN-14G-1/4 |
| 15G | 1.50 | 1.83 | ● Orange | PN-15G-1/2 | PN-15G-1 | ● Brown | PN-15G-1/4 |
| 16G | 1.33 | 1.65 | ● Lavender | PN-16G-1/2 | PN-16G-1 | – | – |
| 17G | 1.15 | 1.50 | ○ White | PN-17G-1/2 | PN-17G-1 | – | – |
| 18G | 0.97 | 1.27 | ● Pink | PN-18G-1/2 | PN-18G-1 | ● Green | PN-18G-1/4 |
| 19G | 0.78 | 1.08 | ● Brown | PN-19G-1/2 | PN-19G-1 | – | – |
| 20G | 0.66 | 0.90 | ● Yellow | PN-20G-1/2 | PN-20G-1 | ● Pink | PN-20G-1/4 |
| 21G | 0.57 | 0.81 | ● Yellow Green | PN-21G-1/2 | PN-21G-1 | ● Purple | PN-21G-1/4 |
| 22G | 0.47 | 0.72 | ● Black | PN-22G-1/2 | PN-22G-1 | ● Blue | PN-22G-1/4 |
| 23G | 0.40 | 0.64 | ● Light Blue | PN-23G-1/2 | PN-23G-1 | ● Orange | PN-23G-1/4 |
| 24G | 0.31 | 0.56 | ● Red | PN-24G-1/2 | PN-24G-1 | – | – |
| 25G | 0.29 | 0.51 | ● Blue | PN-25G-1/2 | PN-25G-1 | ● Red | PN-25G-1/4 |
| 26G | 0.25 | 0.46 | ● Beige | PN-26G-1/2 | PN-26G-1 | – | – |
| 27G | 0.20 | 0.41 | ● Gray | PN-27G-1/2 | PN-27G-1 | ○ Clear | PN-27G-1/4 |
| 30G | 0.14 | 0.32 | ● Purple | PN-30G-1/2 | PN-30G-1 | ● Lavender | PN-30G-1/4 |
| 32G | 0.11 | 0.25 | ● Yellow | PN-32G-1/2 | – | – | – |
| 34G | 0.06 | 0.24 | ● Olive Green | PN-34G-1/2 | – | – | – |

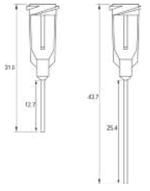
### Tapered Needle

- The needle can quickly dispense a large amount of liquid containing high-viscosity and powder particles.
*PE

| TAPERED TIP | | | |
|---|---|---|---|
| Gauge | I.D(㎜) | Color | pkg Q'ty-50pcs |
| 14G | 1.55±0.02 | ● Olive Green | TN-14G |
| 16G | 1.20±0.02 | ● Gray | TN-16G |
| 18G | 0.84±0.02 | ● Green | TN-18G |
| 20G | 0.63±0.02 | ● Pink | TN-20G |
| 22G | 0.41±0.02 | ● Blue | TN-22G |
| 25G | 0.25±0.02 | ● Red | TN-25G |
| 27G | 0.20±0.02 | ○ Clear | TN-27G |

### Flexible Needle

- It is suitable for anaerobic materials that may damage parts. *Hub : PE, Pipe : PP

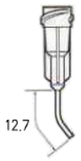


| FLEXIBLE NEEDLE | | | | | |
|---|---|---|---|---|---|
| Gauge | I.D(㎜) | O.D(㎜) | Color | Pipe length L=12.7㎜ | Pipe length L=25.4㎜ |
| | | | | pkg Q'ty=50pcs | |
| 14G | 1.55 | 2.03 | ● Dark Green | FN-14G-1/2 | FN-14G-1 |
| 15G | 1.30 | 1.80 | ● Brown | FN-15G-1/2 | FN-15G-1 |
| 18G | 0.84 | 1.35 | ● Green | FN-18G-1/2 | FN-18G-1 |
| 20G | 0.60 | 1.02 | ● Pink | FN-20G-1/2 | FN-20G-1 |
| 22G | 0.40 | 0.81 | ● Blue | FN-22G-1/2 | FN-22G-1 |
| 25G | 0.30 | 0.81 | ● Red | FN-25G-1/2 | FN-25G-1 |

## DISPENSING TIPS & NOZZLES

### Angled Needle

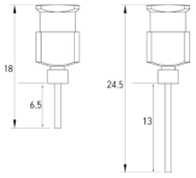
- A 45-degree angled needle suitable for dispensing at interference areas




| ANGLED NEEDLE | | | | |
|---|---|---|---|---|
| Gauge | I.D(㎜) | O.D(㎜) | Color | Pipe length L=12.7㎜ pkg Q'ty=50pcs |
| 14G | 1.75 | 2.10 | Dark Green | AN-14G-45 |
| 15G | 1.50 | 1.83 | Brown | AN-15G-45 |
| 18G | 0.97 | 1.27 | Green | AN-18G-45 |
| 20G | 0.66 | 0.90 | Pink | AN-20G-45 |
| 21G | 0.57 | 0.81 | Purple | AN-21G-45 |
| 22G | 0.47 | 0.72 | Blue | AN-22G-45 |
| 23G | 0.40 | 0.64 | Orange | AN-23G-45 |
| 25G | 0.29 | 0.51 | Red | AN-25G-45 |
| 27G | 0.20 | 0.41 | Clear | AN-27G-45 |
| 30G | 0.14 | 0.32 | Lavender | AN-30G-45 |

### Metal Needle

- As a general-purpose needle with a hub made of metal and the dispensing unit (shaft) made of stainless steel that has a two-ear type structure, it is perfect for fastening. *Hub : Brass, Pipe : SUS304




| METAL NEEDLE | | | | |
|---|---|---|---|---|
| Gauge | I.D (㎜) | O.D (㎜) | Pipe length L=13㎜ pkg Q'ty=12pcs | Pipe length L=6.5㎜ pkg Q'ty=12pcs |
| 12G | 2.40 | 2.76 | MN-12G-1/2 | PN-12G-1/4 |
| 13G | 1.99 | 2.40 | MN-13G-1/2 | MN-13G-1/4 |
| 14G | 1.50 | 1.82 | MN-14G-1/2 | PN-14G-1/4 |
| 15G | 1.37 | 1.82 | MN-15G-1/2 | PN-15G-1/4 |
| 16G | 1.20 | 1.63 | MN-16G-1/2 | PN-16G-1/4 |
| 17G | 1.04 | 1.50 | MN-17G-1/2 | PN-17G-1/4 |
| 18G | 0.84 | 1.27 | MN-18G-1/2 | PN-18G-1/4 |
| 19G | 0.70 | 1.05 | MN-19G-1/2 | PN-19G-1/4 |
| 20G | 0.60 | 0.91 | MN-20G-1/2 | PN-20G-1/4 |
| 21G | 0.51 | 0.82 | MN-21G-1/2 | PN-21G-1/4 |
| 22G | 0.41 | 0.71 | MN-22G-1/2 | PN-22G-1/4 |
| 23G | 0.33 | 0.63 | MN-23G-1/2 | PN-23G-1/4 |
| 24G | 0.30 | 0.56 | MN-24G-1/2 | PN-24G-1/4 |
| 25G | 0.25 | 0.52 | MN-25G-1/2 | PN-25G-1/4 |
| 26G | 0.24 | 0.45 | MN-26G-1/2 | PN-26G-1/4 |
| 27G | 0.20 | 0.41 | MN-27G-1/2 | PN-27G-1/4 |
| 28G | 0.19 | 0.39 | MN-28G-1/2 | PN-28G-1/4 |
| 30G | 0.15 | 0.31 | MN-30G-1/2 | PN-30G-1/4 |

### Brush Needle

- A brush mainly used for dispensing on the surface and in a wide range, it's made of an anti-static material that does not come off easily.
It can be applied to a wide range of liquids such as base, coating material, lubricant, solvent, heat dissipation box, silicone, ink, etc.

| BRUSH NEEDLE (L=42㎜) | | | | |
|---|---|---|---|---|
| Diameter of Brush | Gauge of Needle | Brush Type | | Material of Brush |
| | | Shpae | Hardness(Color) | |
| 4㎜ | 14G,15G,18G, 21G,23G,25G | Round | Soft(white), Hard(light brown) | PP |
| 5㎜ | | Round, Flat | | |
| 6㎜ | | Round, Flat | | |
| 7㎜ | | Flat | | |

* There are various models according to width, length, shape, and hardness of the needle gauges/brushes. Please consult with our sales manager to select according to your needs.

### Needle Guide

- The role of holding and fixing a needle. Divided by gauge/needle type.
Special material needle guides can also be manufactured.
Please consult with our sales manager. *SUS304

| PN type | MN type | TN type |
|---|---|---|
| PNG-13G, PNG-14G, PNG-15G, PNG-16G PNG-17G, PNG-18G, PNG-19G, PNG-20G PNG-21G, PNG-22G, PNG-23G, PNG-24G PNG-25G, PNG-26G, PNG-27G, PNG-30G | MNG-21G, MNG-22G MNG-23G, MNG-24G MNG-25G, MNG-26G MNG-27G | TNG-14G, TNG-16G TNG-18G, TNG-20G TNG-22G, TNG-25G TNG-27G |





## DISPENSING TIPS & NOZZLES

### PreCision Nozzle

- Taeha's precision nozzle uses a ceramic tip to increase the reliability of precision and is very excellent in realizing ultra-fine dispensing.

1) PCNA : A separated structure of hub and nozzle tip. When the nozzle is clogged or damaged, only the tip can be replaced.

2) PCNB : It is a tapered type with an integral structure of the hub and the nozzle tip. It is excellent in liquid fluidity and enables ultra-precise dispensing.

3) PCNC : The screw-type fastening part and the integral structure of the HUB and the nozzle tip provide convenience when it is connected with other parts while simultaneously enabling ultra-precise dispensing.

PCNA

PCNB

PCNC

| PRECISION NOZZLE | | | | | |
|---|---|---|---|---|---|
| Nozzle Tip | I.D(㎜) | O.D(㎜) | PCNA | PCNB | PCNC |
| Ceramic | 0.07 | 0.15 | PCNA-007 | PCNB-007 | PCNC-007 |
| | 0.10 | 0.20 | PCNA-010 | PCNB-010 | PCNC-010 |
| | 0.15 | 0.25 | PCNA-015 | PCNB-015 | PCNC-015 |
| | 0.20 | 0.30 | PCNA-020 | PCNB-020 | PCNC-020 |
| | 0.25 | 0.35 | PCNA-025 | PCNB-025 | PCNC-025 |
| | 0.30 | 0.40 | PCNA-030 | PCNB-030 | PCNC-030 |
| | 0.35 | 0.45 | PCNA-035 | PCNB-035 | PCNC-035 |
| | 0.40 | 0.50 | PCNA-040 | PCNB-040 | PCNC-040 |
| | 0.45 | 0.55 | PCNA-045 | PCNB-045 | PCNC-045 |
| | 0.50 | 0.60 | PCNA-050 | PCNB-050 | PCNC-050 |
| SUS | 0.60 | 0.70 | PCNA-060 | – | – |
| | 0.70 | 0.80 | PCNA-070 | – | – |
| | 0.80 | 0.90 | PCNA-080 | – | – |
| | 1.00 | 1.10 | PCNA-100 | – | – |
| | 1.20 | 1.30 | PCNA-120 | – | – |

*Hub : SUS303, Tip : Ceramic, SUS303

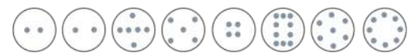
### 2-PIN/3-PIN Needle

– It is possible to dispense at two or three points at the same time, increasing the efficiency of the dispensing time and process. Pipe can be manufactured depending on the inner diameter and length of the pipe according to customers' requirements. Please consult with our sales manager.

*Material : Hub-Brass, Pipe-SUS304

| Model |
|---|
| 2MN – □ G – □ |
| 3MN – □ G – □ |

### Shower Needle

- It is a needle used for simultaneous multi-point dispensing.
It is possible for customers to determine the inner diameter, length, and position of the pipe according to the dispensing process. Please consult with our sales manager.

| Model |
|---|
| Q'ty of pipe / O.D. of body / Needle thickness / Length of needle<br>□ MN □ D- □ G- □ - □<br>Metal needle / Diameter / Gauge / Pattern |